Air Flow Solutions

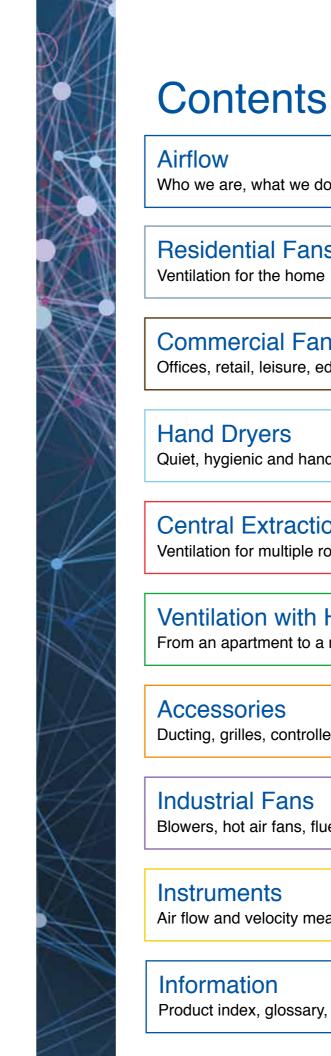


Expert in Air Movement since 1955









Air Flow Solutions



4

Welcome

Welcome to the Airflow Ventilation Solutions catalogue.

The quality of the air we breathe directly effects the health of every man, woman and child. Ensuring our indoor environment is fresh and clean contributes to our general well being and as energy resources become scarcer, regulations become tighter and the awareness of environmental issues relentlessly increases, the importance of well specified ventilation has never been so high.

Choosing a ventilation partner who understands that energy efficiency, value for money and outstanding product quality can go hand in hand with stylish design and a determined commitment to supporting our customers at each stage of the process is paramount.

We have a passion for moving air and with over 60 years of innovation, knowledge and practical expertise, Airflow is that partner.

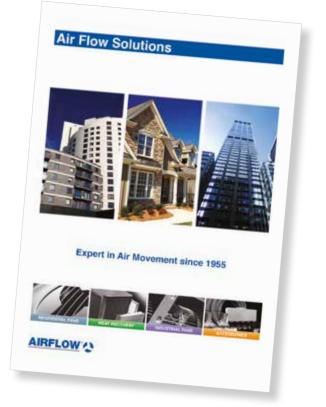
This catalogue, where our diverse range of products can be found in one place, provides a raft of quiet, well designed, reliable ventilation solutions for virtually any Residential, Commercial and Industrial application, from a simple extractor fan to a BMS internet controlled ventilation with heat recovery system.

We look forward to providing you with a quality air movement solution to suit your ventilation requirements.

Regards

199INS

Managing Director



Company Pedigree

More than 60 years of experience

Airflow has grown since 1955 from one mans knowledge in the fields of fan design and airflow measurement into a thriving international group, renowned for its innovative approach in developing new products and techniques for moving air.

Based in High Wycombe, where our founder started the business, we now span the world with subsidiaries in Germany and the Czech Republic and overseas distributors from Norway to New Zealand.

With knowledgeable and committed staff we are constantly striving to develop new, innovative solutions which raise standards and provide reliable, long term solutions for the stringent demands of our ever changing world.







Our Story

Airflow Developments Limited. A rich history of innovation and growth. Our story begins in 1955 with one mans dream.

1955 Our founder, Alexander Conner Wilson established Airflow Developments in the garage of his home in High Wycombe.

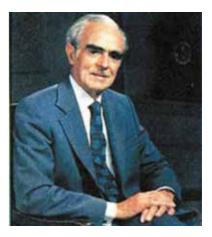
Wilson was a fan engineer by trade and had an idea to develop a measuring instrument to help him in his fan testing work. With his wife Nancy, he started the company and invented the first inclined manometer (a pressure measuring device) to go into commercial production.

1960 From the garage in his home, a move to new factory premises less than a mile away on the newly established Cressex Industrial Estate in High Wycombe.

> The original wooden device, which measured positive, negative and differential pressure, was the forerunner of a range of air flow measuring instruments for HVAC applications which are still sold around the world today. He also invented the Wilson Flow Grid, an array of pitot static tubes which measure differential pressure. Even today the most sophisticated Formula 1 racing cars rely on this technology to measure their speed and performance.

- **1965** Industrial centrifugal fans and blowers were introduced into the manufacturing process sold to original equipment manufacturers for ventilation, cooling and warm air distribution purposes.
- **1969** The domestic extractor fan, the Aidelle Loovent was launched. With over two million units sold to date it still forms part of the residential ventilation portfolio of extractor fans.











Our Story

- **1995** Part of the original factory is demolished and new offices, stores and showroom complex added to double the floor space.
- **2004** Introduced in 2004, iCON's unique, patented iris shutter design remains a highly distinctive and individual product.
- 2006 The iCON wins the European Reddot design award.
- **2009** The company has developed its eco-air portfolio in line with U.K government policy towards energy efficient construction products and includes low noise, low energy fans and mechanical ventilation with heat recovery for commercial and residential building to meet new Building Regulations introduced in 2010.
- **2012** The QuietAir fan wins national recognition by achieving Quiet Mark Status following independent testing by the Noise Abatement Society.

Runner up in the H&V Review Commercial Ventilation Product of the Year

2013 DUPLEXVENT is short listed at the H&V News, The H&V Review, the Energy Awards and the Electrical Industry Awards.

BPEC accredited training centre status.

2014 Airflex Pro wins 'Air Movement Product of the Year' at the H&V News Industry Awards.

> Highly commended at H&V Review Awards with Duplexvent Multi.

> LOOVENT eco short listed at the KBB Kitchen and Bathroom Industry Awards.

2015 Highly Commended in the H&V News Award with Duplexvent Multi

> The launch of the iCONstant fan - guietest dMEV fan available today for toilet / bathroom / utility room.



ecéair











International

Global reach

UNITED KINGDOM High Wycombe (Head Office)

Our founder started the business in 1955 just one mile away from our current location. Since 1960 this has been the headquarters for the Airflow Group where our staff oversee all the activities serving our subsidiary companies in Germany and the Czech Republic and international distributors from around the world.

Airflow Developments Limited Aidelle House, Lancaster Road Cressex Business Park High Wycombe, Bucks. HP12 3QP

Tel: +44 (0) 1494 525252 Fax: +44 (0) 1494 461073 Email: info@airflow.com Web: airflow.com



GERMANY

Established for over 50 years, Airflow has been serving the German and European market with ventilation products and air measuring instruments. With their own customer service, sales and after sales team they operate from modern offices and warehouse facilities near Cologne.

Airflow Lufttechnik GmbH Postfach 1208 D-53349 Rheinbach Germany

Tel: +49 (0) 2226 92050 Fax: +49 (0) 2226 920511 Email:info@airflow.de Web: airflow.de



CZECH REPUBLIC

Serving Eastern Europe for 20 years, the team at Airflow in Prague are well placed to support the sales and service of Airflow Ventilation products in the Czech Republic and the surrounding countries

Airflow Lufttechnik - Praha Hostynska 520 10800 Praha 10 Malešice Prague Czech Republic

Tel: +42 (0) 2747 72230 Fax: +42 (0) 2747 72370 Email:info@airflow.cz Web: airflow.cz



WORLDWIDE

With worldwide distributors from Norway to New Zealand we have a global network of approved distributors.

For further details of your nearest distributor visit us at airflow.com













Working Together

Airflow is committed to raising ventilation standards

Through our active participation with industry trade associations and Government advisory groups we seek to raise the standards of regulations, product design, performance and on-site installation...

BEAMA (British Electrotechnical and Allied Manufacturers Association) has a specialist ventilation group which promotes best practice and installation, product specification and future Building Regulations.

EVIA (European Ventilation Industry Association) represents the leading ventilation companies in Europe and assists in drafting regulations and promoting best practice.

FMA (Fan Manufacturers Association) focuses on commercial and industrial fans influencing and monitoring regulations both nationally and internationally.

RVA (Residential Ventilation Association) provides a detailed technical oversight of regulations and industry matters effecting residential ventilation and inputs to the industry advisory group for Building Regulations.

The Passivhaus Trust provides leadership in the UK for the adoption of the Passivhaus standard and construction methodology which specifies Mechanical Ventilation with Heat Recovery.

KBSA The Kitchen Bathroom Bedroom Specialists Association is made up of independent, local kitchen, bedroom, bathroom and home office retailers promoting best practice design including ventilation.

BSRIA test, research and consult in construction and building services providing specialist support for design, construction, facilities management, product testing and market intelligence.

BPEC (British Plumbers Employers Council) is a nationally recognised training organisation. Their ventilation installer training course, which we provide at our training centre in High Wycombe, promotes "Best Practice" installation, testing and commissioning to raise standards across the ventilation sector.

BRE (Building Research Establishment) is an independent research and testing organisation dedicated to improving the build environment, supporting the implementation of building regulations.



















Partnering with Industry

Innovating together

Airflow is working together with other environmentally committed companies to research and develop a holistic approach to improving indoor air quality and energy saving technologies.



The best underfloor heating - guaranteed

Warmup Plc

NSBRC The National Self Building and Renovation Centre Warmup is a U.K based Plc creating and delivering electric in Swindon is UK's only permanent national exhibition underfloor heating systems and solutions around the centre for self-build, renovation & home improvement. world for nearly 20 years to both domestic and commercial Visit the Airflow stand for ideas and installation support. markets and occupying a world leading position in their field. They supply homeowners, builders, architects and www.nsbrc.co.uk developers looking for the best underfloor heating solution.

www.warmup.co.uk



Greencore Construction

A consultancy and project management company dedicated to delivering inspirational, low carbon buildings which contribute to the decarbonisation of the built environment.

www.greencoreconstruction.co.uk

Renewables House



Airflow partner with the Building Reserach Establishment (BRE) Innovation Park in Watford, investigating the benefits of ventilation with heat recovery in new and refurbished buildinas.

9 (B⁺) (n) (f)







National Self Building and Renovation Centre



Mark Group

The Mark Group are the UK's leading energy saving experts, helping take a 'whole home' approach to energy efficiency since 1974.

Airflow are pleased to have been chosen as their ventilation partner supplying a Duplexvent MVHR unit and an Airflex Pro ducting system to the Mark Group EcoHouse, part of the University of Nottingham's Creative Energy Homes Project.

Airflow partner with the Building Research Establishment (BRE) Innovation parks in Watford and Livingstone in Scotland promoting the benefits of ventilation with heat recovery in new and refurbished buildings

www.markgroup.co.uk

Is your building toxic?

The Story of Air

The causes



Airtight Homes

Modern dwellings are designed with increasingly reduced air infiltration rates, higher levels of insulation making them almost completely sealed.

Consequently the air inside can become moist, stale and generally stuffy and unpleasant to breathe. As we spend nearly 70% of our time at home we should be looking after our indoor environment better.

Unhealthy Atmosphere



The indoor climate can be too warm, too cold, too damp, too drv combined with the activity of everyday living and people living together in close proximity produced odours, cooking smells and numerous unhealthy, volatile organic compounds (VOC).

Biological Pollutants



Are you sharing your bed with thousands of dust mites? Bedding and carpets are their home and if your dwelling is overly damp or humid they breed all the more. Dust mites contribute to the increase in asthma, chest infections and allergies and if left unchecked represent a very real health hazard.



Condensation

Dampness is a huge problem in the U.K. Damaging to both humans, and to the fabric of buildings, condensation forms when the temperature of a surface (walls, mirror etc) is below the dew point of the surrounding air. This leads to streaming windows and walls and ultimately to mould.

Carbon Emissions

Everyone is aware of the need to reduce our carbon footprint. Managing the carbon emissions from dwellings will be the cornerstone of our Building Regulations until we reach a carbon zero dwelling.

From appliances to people, carbon dioxide and carbon monoxide is emitted and needs to be curtailed.

Radon



Radon is a naturally occurring. invisible, odourless gas that comes from deposits of uranium in soil, rock, and water. It is harmlessly dispersed in outdoor air, but when trapped in buildings, can be harmful, especially at elevated levels. Some regions of the U.K are more prone to radon gas than others. Exposure to radon is a leading cause of lung cancer behind smoking. The effects of radon gas in a dwelling can be largely eliminated by continuous mechanical ventilation.

Noise



Many people do not really stop and consider the constant level of sound we are subjected to on a daily basis, but noise is ever present.

Often it is subliminal but never the less present around us, affecting our nervous system and in extreme cases our well being. Specifying quieter running ventilation products and radial design duct work that does not transmit noise between rooms contributes to a lower noise indoor environment.

Did you know?



respiratory or dermatological condition because of poor air quality in their home



of people have experienced mould or condensation in their home

million homes in the UK are at risk of 'Toxic Home Syndrome'



of our time is spent indoors. where air can be more polluted



more chemical, particles and biological materials indoors may effect our health



airflow.com



Mould

Unchecked levels of moisture (condensation) and relative humidity combined with a suitable organic breeding place such as wood, carpet, wallpaper etc., will inevitably lead to mould growth. Mildew forms in wall cavities and crevices and microscopic mould spores can be inhaled by humans triggering asthma, allergies and skin disorders.



Toxic Gases

A variety of noxious and toxic gases can collect within a dwelling if not properly ventilated. All can have a serious effect on health and well being if not considered as part of a ventilation strategy.



more pollutants may be found inside your home than outdoors

We have the Solution for You!

Whatever your interest in ventilation we have the answer to your requirements.

Specifier

With over 60 years of experience, we provide ventilation solutions for both the social housing sector and the private house builder, so Airflow is well placed to help you specify the most suitable product for your application.

Our portfolio of low energy, high efficiency products are designed to meet, not just today's regulations, but the requirements of future legislation. Complying with the drive towards a carbon zero home we are able to provide solutions for architects and consultants to help them meet, Building Regulations, Decent Homes Standard, SAP Appendix Q, IEE Wiring Regulations, Passive House and BREEAM criteria.



Installer

We understand that installers do not just want good value, they want a product that they can install quickly and easily in the knowledge that it will provide years of trouble free operation.

From the origins of the Aidelle Loovent back in 1969 it is not unusual to see Airflow extractor fans working quietly away after 15 years or more service in bathrooms and toilets. With well over two million sold they are tried and tested.

Designed with the installer in mind our products comply with IEE wiring regulations for a fast, safe installation.

Technical support is available on-line, on-mobile or phone.



We have the Solution for You!

Merchant

We know that our wholesalers, merchants and distributors pride themselves on providing a fast and efficient turnaround for their customers. Holding stock on the shelf is the key to providing the customer with the immediate service that he or she quite rightly demands.

Airflow supports the committed wholesaler by offering its customers a fast, efficient e-commerce solution for placing orders. Our on-line Trade Counter allows the latest prices and stock availability to be checked and orders securely placed on-line. Now our customers can log-on and place an order on their own account saving time and money. Additionally, point of sale displays, branch promotions and retail packaging instantly describing the product and the support of a dedicated area sales manager is provided to ensure the merchant can offer that extra special service to their customers.

Homeowner

From the million selling Loovent range of fans that for many years have been the byword for fast, effective toilet and bathroom extraction through to the award winning iCON range of silent shutter fans that combine contemporary styling and colour co-ordination to suit existing décor.

Saving energy is on everyone's agenda and Airflow's QuietAir range provides exceptionally low power usage and is independently approved by the Noise Abatement Society. The Duplexvent Ventilation with Heat Recovery range, enables a 'designed-in' solution for new dwellings to recover over 90% of the heat that would otherwise go to waste. From improvers to self builders we have ventilation solutions for every home.







Our Range

Residential Fans

Extracting damp, moist air reduces the effects of condensation, mould growth, odours and airborne pollutants that can help create allergies and encourage asthma in adults and especially children. We produce an extensive range of extractor fans that comply with the latest Building Regulations and offer quiet, stylish unobtrusive extraction for toilets, bathrooms, en-suites, utility and kitchens.



Higher performance extraction for larger rooms, toilet clusters and commercial / retail applications. Using a centrally located fan reduces noise and enables ducting to multiple outlets. Consider CIBSE recommendations for air changes per hour in differing applications.

Heat Recovery

Mechanical Ventilation with Heat Recovery (MVHR) is the process of continuously preheating filtered, incoming fresh air by warming it with outgoing, waste air from a bathroom, utility and kitchen. By recycling the warmth through a heat exchanger warmed, fresh air is supplied to living and working areas. Duplexvent is a range of high thermal efficiency (over 90%) MVHR units which comply with SAP Appendix Q and selected units are Passive House Institute Approved. Available for both residential and commercial applications.

Industrial Fans

Airflow have been producing high quality centrifugal fans and blowers for nearly sixty years and have been at the forefront of developing new technologies to meet the fan requirements of the market. From custom OEM designs to "off the shelf" products we have an individual fan for cooling, venting, diluting, warming, destratification and almost every air movement application in between.

Accessories

As good as the product is, installed performance can suffer when poor quality components are selected or as a result of a poor quality installation. Airflow match all accessories with their products to ensure a fully compatible installation allowing optimum performance. In fact, our semi rigid ducting system is "Zero Leakage" and is SAP Appendix Q eligible.









Which System is Right for Me?

Selecting the Correct Product

The Building Regulations only recommend four principle methods of residential ventilation. Airflow have been specialising in the most effective methods for many years. The following is an overview of the best options available. An essential part of reducing carbon emissions is the need to develop and install more efficient appliances for more

An essential part of reducing carbon emissions is the need to develop and install more efficient appliances for more energy efficient dwellings to meet the relevant SAP ratings and provide lower specific fan power (SFP) ventilation products with longer life cycles.

In line with the latest Building Regulations, Airflow offer a comprehensive range of solutions to ensure good ventilation in our homes and helping to achieve our national objectives under the 2010 Oslo agreement.

Intermittent Extract Fans

Wall, ceiling or window mounted with a choice of controls in axial and mixed axial/centrifugal and centrifugal impeller variants. Energy efficient, low watt, quieter running. All important elements in specifying and installing products to meet the Building Regulations.

Central Extract Ventilation (MEV/dMEV)

Continuously running in either centralised (loft, cupboard) or decentralised (room) locations for quieter, constant extraction from wet rooms. Available with multiple speed choices.

Mechanical Ventilation with Heat Recovery (MVHR)

Continuously running from a centralised location. Extracting moist, stale air from wet rooms in a dwelling, and introducing fresh, filtered air, warmed in an exchanger with the outgoing waste air filtered and recycled to living rooms within the dwelling. Airflow supply a range of SAP Appendix Q eligible and Passive House approved units for exceptional efficiency.



Hygienic, Zero Leakage Ducting

AIRFLEX PRO

iCON° QuietAir O LOOVENT eco

AiR VENT

iCONstant[™]

DUPLEXVENT°



Training and Support

Showroom

Our extensive showroom at our High Wycombe Head Office can accommodate large groups in state of the art facilities. The full range of products are on view and take the visitor on a journey through the "Story of Air" of why we should ventilate while explaining the product range from a stylish extract fan to a fully working MVHR system.

The facility is also available for hire for customer events and industry meetings.



CPD

With so much knowledge gained over so many years we are pleased to share our experience. We recognise that on-going professional development is part of all our working lives.

We offer a range of CPD approved seminars that can be conducted at your offices or at our training centre in High Wycombe.







Training

With the introduction of the Domestic Ventilation Compliance Guide as part of the Building Regulations 2010 new levels of knowledge are needed by installers who will commission and pass ventilation data to Building Control.

The nationally recognised BPEC Domestic Ventilation Systems installer training is a two day course held in High Wycombe.

The course will train you to:

- Understand, select and install correctly domestic ventilation systems
- Test, commission and report to building control on the system installed

The latest training dates may be viewed at: airflow.com/bpectraining



Training and Support

Technical Support

We have a fully trained team waiting to provide assistance and application advice on all ventilation matters. From choosing a residential extract fan to specifying a commercial MVHR system.

System Design and BIM

If you are considering specifying a ventilation system why not send us your drawings. We can advise on the most suitable product complete with compatible accessories to ensure an effective installation.

Send your drawings to: plans@airflow.com

We also have product data in industry leading format for those designers using BIM software, so that all information is available in one file.

Visit: airflow.com/BIM

Contact us

Airflow Developments Limited

Tel: 01494 525252 Fax: 01494 461073 e-mail: info@airflow.com

Customer Services

Tel: 01494 560800 Fax: 01494 560808 e-mail: customer services@airflow.com

Technical Support

Tel: 01494 560950 e-mail: technical_sales@airflow.com

Marketing

Tel: 01494 560832 e-mail: marketing@airflow.com













Environmentally Responsible

Taking care of our environment

We all agree that Carbon Emissions need to be reduced. At Airflow we take these challenges seriously and have taken many steps to manage our environment. By recycling our waste, converting our facility to motion activated lighting, ensuring our field sales staff drive 'eco' standard vehicles we seek to practice what we preach.

Similarly equipment is designed with strict environmental criteria in mind ensuring our customer receives a quality product that can be effectively recycled when the time comes for replacement.



Currently one of the very few ventilation manufacturers

to have achieved the stringent ISO 14001 Environmental

Management Systems Standard, Airflow continues to

lead the way in ensuring we do our utmost to reduce

our environmental impact. By improving efficiency while

reducing energy usage, waste and consumption of

resources we strive to deliver innovative products while

operating our business in an environmentally effective

If your supplier does not share these ideals, ask yourself

why? Choose Airflow for a sustainable future.

ISO 9001 Quality Matters!

Airflow Developments Limited was the 152nd company to achieve the ISO 9001 (BS 5750) standard for Quality Management Systems. Today in the U.K there are now tens of thousands of certified organisations.

Our long-standing commitment to rigorous development. design and manufacture of our products to internationally accepted standards has been a feature of the Airflow ethos.

The ISO 9001 kite-mark is positive proof for our customers that their purchase will be tried and tested and provide years of trouble free operation.





ISO 14001

way.

Environmental Matters!

General Information

Terms

Airflow Developments Limited reserve the right, in the interests of continuous development, to alter specifications without prior notice. All orders are accepted subject to our latest conditions of sale which are available upon request.

For each fan shown in the catalogue we have selected Refer to the Airflow website (www.airflow.com) which is a typical performance duty point, or the maximum speed the most up to date source of information. and then quoted the overall 'A' weighted sound pressure level normally given at either 1 or 3 metres from the fan.

Intellectual Property

Additionally the values shown are based on 'free field', The information, content, specifications and products this assumes that the sound is radiated into a large space. offered in this catalogue are subject to patent, trademark, and the sound source is in the centre of this space. It is international design and copyright regulations. Airflow important to note that this is for comparison purposes and Developments Limited will take all necessary steps to that the real sound pressure level experienced will depend protect its brand and pursue any infringements. on the acoustic characteristics of the area the fan is being used in.

Performance Testing

Airflow Developments Limited has its own air movement laboratory. Fans are performance tested in accordance with BS EN ISO 5801: 2008 and BS EN 848-1: 2007.

| Approved by BS EN 13141 – 4 : 2011 | Performance testing of products for residential ventilation. |
|---|---|
| BS EN 60335 – 1 : 2012 +A1: 2014 | Household and similar electrical safety general req. |
| BS EN 13347 – 3 : 2004 +A1: 2010 | Industrial fan sound power levels under standardised lab conditions. |
| BS 1S0 13347 - 2 : 2004, BS 848 - 2 2 : w2004 BS 1S0 13347 - 4 : 2004, BS 848 - 2 4:2004 BS 1S0 13347 - 1 : 2004 +A1: 2010, BS 848 - 2 1 : BS 1S0 13347 - 3 : 2004 +A1: 2010, BS 848 - 2 3 : | purposes, methods of noise testing. 2004 |



Fan Sound Data

The majority of Airflow fans have had full acoustical tests for sound carried out on them, and these are normally for open inlet or open outlet sound power levels.

ErP

Airflow fans are offered in compliance with the latest phase of the ErP directive, unless otherwise stated.

For an explanation on currently compliant and noncompliant products please refer to the ErP section.

WEEE

Waste Electronic and Electrical Equipment Directive. Airflow Developments Limited are registered under the WEEE scheme.

IP Ratings

Airflow Developments Limited design fans to meet international Ingress Protection (IP).

Ratings: Two numerical classifications are used ie. IPXX.

IPXX is untested.

The first number in the code indicates the level of protection that the enclosure provides against solid objects, from 0 to 6.

IP0 offers no protection while IP6 offers complete protection against dust ingress.

The second number provides the level of protection against the ingress of water.

IPX0 offers no protection, while IPX4 offers protection against splashing water.

IPX5 offers protection against water jets.

The maximum protection is IPX9.

Useful Conversions

Comparing Values

We can all get confused by the variety of units of measure in use. Here are a few helpful conversions.

Air Changes

Commercial applications may follow CIBSE recommendations.

To specify the volume of air that the fan needs to extract to satisfy the ventilation required, follow this simple procedure.

- 1. Calculate volume of room in m³ (H x W x L) i.e. 3m x 2.5m x 2m = 15m³
- 2. Multiply by required air changes i.e. Offices = 6
- 3. Volume x Air Changes = Fan performance

PRESSURE:

| mmH ₂ 0 | N/m² (pascals) | Psi | mbar | ins wg |
|--------------------|----------------|--------|---------|--------|
| 25.4 | 249.089 | 0.0361 | 2.4908 | 1 |
| 1 | 9.8066 | 0.0014 | 0.098 | 0.0393 |
| 0.1019 | 1 | 0.0001 | 0.01 | 0.004 |
| 703.07 | 6894.76 | 1 | 68.9476 | 27.68 |
| 10.197 | 100 | 0.0145 | 1 | 0.4015 |

VOLUME:

| l/sec | m³/hr | m³/min | m ³ /sec | cfm |
|---------|-------|--------|---------------------|---------|
| 0.4719 | 1.699 | 0.0283 | 0.0004 | 1 |
| 1 | 3.6 | 0.06 | 0.001 | 2.1189 |
| 0.2777 | 1 | 0.0166 | 0.0002 | 0.5885 |
| 16.6662 | 60 | 1 | 0.0166 | 35.3145 |
| 999.972 | 3600 | 60 | 1 | 2118.88 |

VELOCITY:

| m/sec | Km/h | mph | Knots (UK) | ft/min |
|--------|--------|--------|------------|---------|
| 0.005 | 0.0182 | 0.0113 | 0.0098 | 1 |
| 1 | 3.6 | 2.2369 | 1.9426 | 196.85 |
| 0.2777 | 1 | 0.6213 | 0.5396 | 54.681 |
| 0.447 | 1.6093 | 1 | 0.8684 | 87.9997 |
| 0.5147 | 1.853 | 1.1515 | 1 | 101.333 |

*Note: For guidance only. E&OE

| Location | Air changes/ Hour | Location | Air changes/ Hour | Location | Air changes/ Hour | Location | Air changes/ Hour |
|----------------------------|-------------------------|--------------------------|-------------------------|-------------------------|-------------------------|-----------------------------|-------------------------|
| Assembly halls | 4-8 | Banks/Building Societies | 4-8 | Glasshouses | 25-60 | Mushroom houses | 6-10 |
| Bakeries | 20-30 | Bedrooms | 2-4 | Gymnasiums | 6 min | Offices | 6-10 |
| Bathrooms | 6-10 | Billiard rooms * | 6-8 | Hairdressing salons | 10-15 | Paint shops (not cellulose) | 10-20 |
| Billiard rooms * | 6-8 | Boiler rooms | 15-30 | Hospitals - sterilising | 15-23 | Photo & X-ray darkrooms | 10-15 |
| Cafes and coffee bars | 10-12 | Canteens | 8-12 | Wards | 6-8 | Public house bars | 12 min |
| Cellars | 3-10 | Changing rooms main area | 6-12 | Kitchens - domestic | 15-20 | Recording control rooms | 15-25 |
| Changing/Shower area | 15-20 | Churches | 1-3 | Commercial | 30 min | Recording studios | 10-12 |
| Cinemas & theatres * | 10-15 | Club rooms | 12 min | Laboratories | 6-15 | Schoolrooms | 5-7 |
| Compressor rooms | 10-20 | Conference rooms | 8-12 | Laundrettes | 10-15 | Shops and supermarkets | 8-15 |
| Dairies | 8-10 | Dance halls | 12 min | Laundries | 10-30 | Squash courts | 4 min |
| Dental surgeries | 12-15 | Dye works | 20-30 | Lavatories | 6-15 | Swimming baths | 10-15 |
| Electroplating shops | 10-12 | Engine rooms | 15-30 | Lecture theatres | 5-8 | Toilets | 6-10 |
| Entrance halls & corridors | 3-5 | Factories and workshops | 8-10 | Libraries | 3-5 | Utility rooms | 15-20 |
| Foundries | 15-30 | Garages | 6-8 | Living rooms | 3-6 | Welding shops | 15-30 |

© CIBSE

Air Flow Solutions

iCONstant[™]

Clean air thinking 24/7 365

...continuous ventilation for a better indoor air quality



For further information see pages 74-77





- From 10dB(A) the quietest dMEV fan available for toilet, bathroom and utility. Suitable for kitchen too.
- From just over £1.00 per year to run on trickle speed.
- You select 6, 8 or 13 l/sec plus boost with 'fine tune' commissioning adjustment option of running rate for optimum extraction.
- Constant air flow Guaranteed to deliver installed performance.
- The only dMEV fan IPX5 rated for both wall and ceiling installs.
- Timer and Humidity versions.
- SAP Appendix Q eligible.
- LED self diagnostic set up with no loss of functionality if the power fails.
- Complies with Building regulations
- 3 Year warranty.

Visit: airflow.com

What Fan and Where?

Installed performance

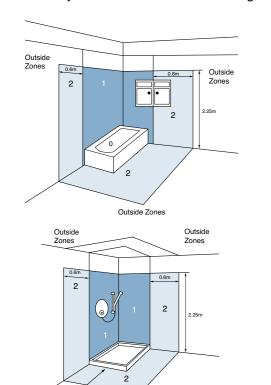
It is not sufficient to fit just any fan. It is important that the fan performs efficiently by extracting the minimum flow rate as required by the latest Building Regulations. The number of bends and the length of duct attached to the fan will create resistance to flow that must be overcome to ensure adequate extraction, known as installed performance.

Fans should also be positioned to give an optimum flow of air through the whole room and to avoid pockets of residual air. The location of planned or existing door and window openings must be considered as well as sources of odours, stale air or condensation. Undercutting of doors or grilles may needed to be installed to allow air into the room, particularly with internal rooms which have no windows and tightly sealed doors.

Fans should be mounted as high as possible, well away from primary heat sources such as gas water heaters and boilers.

Domestic Ventilation Compliance Guide

The 2010 Building Regulations introduced a "Good Practice" installation guide for fan installation, inspecting and commissioning new and existing dwellings. Consider this document as part of your specification. Don't forget a fan can only extract air if there is air coming in to replace it.



What Type of Fan

Having considered the application of the ventilation required, it is important to select the correct type of fan to ensure that the requirement is truly met. However you should first consider which type of fan will best suit you to provide quiet efficient ventilation.

Axial Fans are ideal for through the wall and window applications. Providing high performance with a slim profile, they are suitable for use with flexible ducting up to a maximum 1.5m length

Mixed Flow Fans combine the convenience of a slim axial fan with the performance of a small centrifugal making them ideal for short duct runs

Centrifugal Fans are quiet, powerful and suitable for wall and ceiling applications. They also work very efficiently against system resistance making them the perfect choice for ducted installations

Where to install

IEE regulations specify the installation of fans within bathrooms and showers by identifying a series of zones. IEE regulations must be adhered to for all electrical installations. Fans must be installed in accordance with the latest IEE Wiring Regulations 17th Edition (BS 7671:2008) + A2:2013. Part 7 (Special Locations).

Zone Information

Zone 0:

The Interior of the bath or a shower tray NO Fan can be fitted. Zone 1 is limited by:

(i) the finished floor level and the horizontal plane corresponding to the highest fixed shower head or water outlet or the horizontal plane lying 2.25m above the finished floor level, whichever is higher.

(ii) the vertical surface:

a) circumscribing the bath tub or shower basin

b) at a distance of 1.20m from the centre point of the fixed water outlet on the wall or ceiling for showers without a basin

The space under the bath tub or shower basin is considered to be zone 1. However, if the space under the bath tub or shower is only accessible with a tool, it is considered to be outside the zones

Zone 2 is limited by:

(i) the finished floor level and the horizontal plane corresponding to the highest fixed shower head or water outlet or the horizontal plane lying 2.25m above the finished floor level, whichever is higher.

(ii) the vertical surface at the boundary of zone 1 and the parallel vertical surface at a distance of 0.60m from the zone 1 boarder

For showers without a basin, there is no zone 2 but an increased zone 1 is provided by the horizontal dimension of 1.2m mentioned in Regulation 701.32.3(ii) b).

Building Regulations

Delivering Improvement

It all started in London when the first "Building Act" came into force forbidding thatched roofs inside the city limits. By the time of the Great Fire of London in 1666, many thatched buildings still remained, spreading the fire. Shortly after the first "inspected" building code was introduced.

Fast forward to the "1984 Building Act" and the first appearance of a dedicated ventilation regulation. In 1991 they became the "Building Regulations" with further revisions in 2000, 2006 and 2010, with amendments in 2013.

Using the Building Regulations as a tool to meet our Refer to the Scottish Building Standards, technical commitments to the 2005 Kyoto protocol and more recently handbook 2015 edition for domestic and non-domestic the Copenhagen climate agreement, the U.K government applications, Standard 3.14 has planned a path for the construction industry towards a Visit: www.scotland.gov.uk "new build" Carbon Zero home by 2016.

Why? To do this they are using the 2006 regulations as the base line to introduce calculated reduced energy usage and carbon emissions in residential and non-residential dwellings.

2006 Regulations = Starting Point 2010 Regulations = 25% Reduction on 2006 2013 Regulations = 44% Reduction on 2006 2016 Regulations = Carbon Zero New Dwelling

Drivers for change

- Government policy 25% reduction in carbon emissions by 2020
- Legal commitment to reduce carbon emissions by 80% by 2050
- Energy Efficiency Lowering energy usage
- Sustainability The green agenda
- A Carbon zero commercial new building by 2019
- A Carbon zero new residential dwelling by 2016
- Well being, improved indoor air quality U.K has the highest Increase in asthma in Europe





Building Regulations England and Wales

References in this catalogue refer to Approved Document F1: Means of Ventilation for England and Wales unless otherwise stated.

Visit: www.planningportal.gov.uk/buildingregulations

Please note that other documents apply specifying ventilation in Scotland, Northern Ireland and the Republic of Ireland.

Scotland

Northern Ireland

Refer to the Building Regulations (Northern Ireland) 2014, Part K.

Visit: www.dfpni.gov.uk

Republic of Ireland

Building Regulations, Techincal Guidance Document F:2009 Ventilation.

Visit: www.environ.ie

Scale of the challenge

- Existing buildings account for 42% of U.K green house gas emissions
- In 2050, 75% of housing stock will still predate the 2010 level
- In homes 82% of emissions are from hot water and heating

Building Regulations - System 1

Background Ventilators and Intermittent Fans

Approved Document F1: 2010 England and Wales (with amendments in 2013)

| Room | Intermittent Extract Rate |
|------------------------|--|
| Kitchen | 30 l/sec (adjacent to hob) or 60 l/sec (elsewhere) |
| Utility Room | 30 l/sec |
| Bathroom | 15 l/sec |
| Sanitary Accommodation | 6 l/sec |

- Mechanical Intermittent Extract Fans located in the wet rooms to extract pollutants quickly at a high rate.
- Can be controlled either:
 - Manually via integral / remote switch
 - Automatically, typically via humidity, C0,, motion or other sensors.
- Normally wall or ceiling mounted and ducted direct to outside air using the most economical route.
- Replacement air enters the building via background ventilators, typically in the form of window vents located in the head of window frames.

Domestic Building Services Compliance Guide 2013 edition

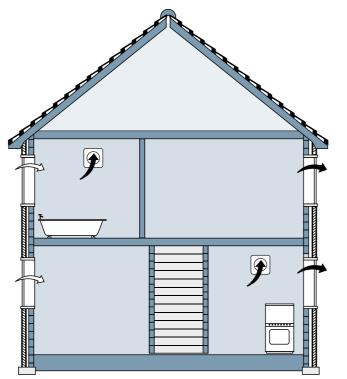
Referred to in the 2013 edition of Approved Document L1A and the amended version of L1B, Conservation of Fuel and Power.

Mechanical ventilation systems should be designed to minimise electric fan power. The specific fan power (SFP) should not be worse than:



© Crown copyright





Building Regulations - System 2

Passive Stack Ventilation

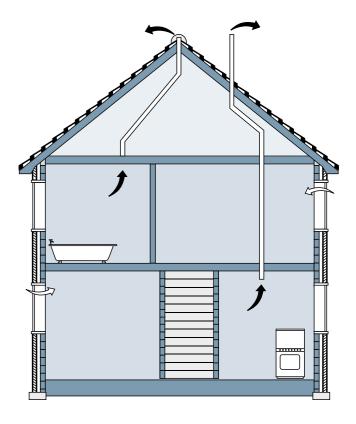
Approved Document F1: 2010 England and Wales (with amendments in 2013)

| Room | Internal Duct Diameter (mm) | Internal Cross Sectional Area (mm ²) |
|------------------------|--------------------------------|---|
| Kitchen | 125 | 12,000 |
| Utility Room | 125 | 12,000 |
| Bathroom | 125 | 12,000 |
| Sanitary Accommodation | 125 | 12,000 |

A PSV System provides continuous ventilation. The driving force being the "stack effect" and the "wind effect". (Hot air rises and the wind passing over the outlet helps to draw the air out of the building).

- Only need Background Vents in dry rooms.
- Separate ducts must be taken from each wet room.
- Ducts should ideally use no more than one offset (i.e. no more than two bends).
- Offsets should be no more than 45°.
- Placing the outlet terminal at the ridge of the roof is the preferred option.
- If the outlet is more than 0.5 metre from the roof ridge it must extend to at least ridge height.

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Building Regulations - System 3

Continuous Mechanical Ventilation

Approved Document F1: 2010 England and Wales (with amendments in 2013)

| Room | Continuous Extract Rate |
|------------------------|-------------------------|
| Kitchen | 13 l/sec |
| Utility Room | 8 l/sec |
| Bathroom | 8 l/sec |
| Sanitary Accommodation | 6 l/sec |

- Background Vents in dry rooms only.
- Extracts continuously at a low rate and incorporates a boost facility to extract pollutants at a higher rate as required.
- Can be controlled either:
 - Manually boosted via multiple switches.
 - Automatically boosted, typically via humidity, C0, motion or other sensors.
- Normally sited remotely in a loft space or cupboard and ducted via rigid or semi rigid duct to outside air using the most economical route.
- Replacement air enters the building via background ventilators, typically in the form of window vents located in the head of window frames or walls. These should be fitted in each habitable room except wet rooms from which air is extracted.

Domestic Building Services Compliance Guide 2013 edition

Referred to in the 2013 edition of Approved Document L1A and the amended version of L1B, Conservation of Fuel and Power.

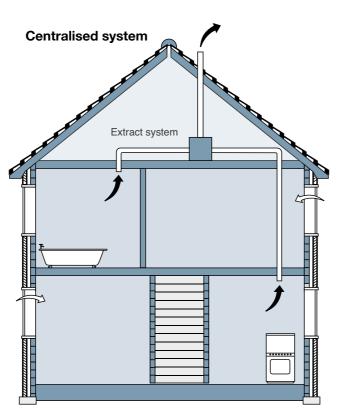
Mechanical ventilation systems should be designed to minimise electric fan power. The specific fan power (SFP) should not be worse than:

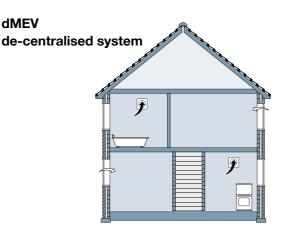


28

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Building Regulations - System 4

Continuous Mechanical Supply and Extract with Heat Recovery

Approved Document F1: 2010 England and Wales (with amendments in 2013)

| Room | Continuous Extract Rate |
|------------------------|-------------------------|
| Kitchen | 13 l/sec |
| Utility Room | 8 l/sec |
| Bathroom | 8 l/sec |
| Sanitary Accommodation | 6 l/sec |

- Supplies & extracts air continuously at a low rate and incorporates a boost facility to extract pollutants and supply fresh outdoor air at a higher rate as required.
- Can be controlled either;
 - Manually boosted via multiple switches.
 - Automatically boosted, typically via humidity, C0, motion or other sensors.

These should be clearly marked and located in an accessible location in or near the wet rooms.

- Normally sited in a cupboard or insulated loft and ducted via rigid duct to outside air.
- Replacement air is dealt with by balanced supply and extract.

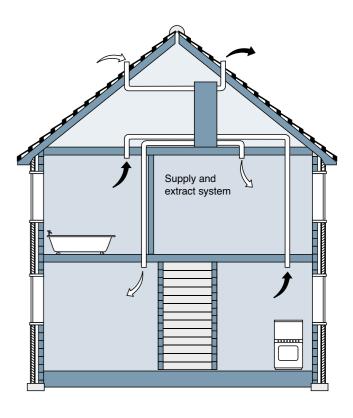
Domestic Building Services Compliance Guide 2013 edition

Referred to in the 2013 edition of Approved Document L1A and the amended version of L1B, Conservation of Fuel and Power.

Mechanical ventilation systems should be designed to minimise electric fan power. The specific fan power (SFP) should not be worse than:



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Selection Software

Fan Selection Software

Airflow Selectair selection software allows the user to select products from our Domestic, Commercial and Industrial fan ranges and also select from our Heat Recovery range suitable for their application. The software is hosted within the Airflow website.

SELECTair

Visit: airflow.com/selectair

Residential Fans

Selectair software has been designed to ensure that products are selected to fulfil the requirements of your application. By following a logical and easy to use sequence fans are listed which are suitable for the room of your choice, through the wall or ducted installation and the type of ducting you will be using.

By automatically calculating the pressure drop values for your requirement, a choice of products are linked to ensure "installed performance" criteria is met. This gives the specifier the confidence to know that choosing a fan from the products offered will deliver the performance expected to meet the latest building regulations for fast, effective ventilation.

Selection Software

AIRFLOW 2 COMMERCIAL MEATINGCOMPANY INCLUSION SELECTair The Airflow SELECTain software enables products to be selected from our Residential and Industrial fan product ranges which are suitable for your application. Follow the simple data input process to specify product is meet your application requirements. nical Ventilation with Heat Racovery section to review a range of market leading residential and commercial solutions and 'zero leakage' ducting



Industrial Fans

By inputting air flow and system pressure values the software searches the fan performance curves of our product range and offers a selection of suitable products to meet the requirement.

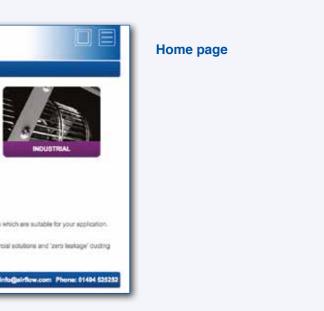
Dependant upon the application, a fan of appropriate size, noise level and performance can then be chosen to meet the application required.











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Residential Fans selection choice from input data to meet criteria



Residential Fans

Why Ventilate?

AIRFLOW fans meet/exceed the requirements humid and stale air. The potential hazards to of the latest Building Regulations helping health for occupants and possible damage to combat the harmful effects of dampness to the fabric of the building can be largely and condensation and by extracting airborne eliminated. pollutants such as odours, cooking smells,

Short key Functions





Fan operates by remote switch

Adjustable timer overun





Passive infra red activation

Continuous ventilation at trickle speeds





TWO SPEED Two speed operation





DELAY **START** 2 MINS

Safety Extra Low Voltage

33

Delay start for 2 minutes



HUMIDITY Adjustable humidity setting

Aura eco 100

Toilet, en-suite and bathroom ventilation





Aura eco 100

Highly reliable, low energy fan in a modular design for ease of installation and maintenance. The Aura eco 100 is designed to provide quiet extraction in a suitable application.

Key Features

- Axial fan
- Ventilation up to 70 m³/hr
- Slim compact styling
- Quick and easy to fit
- Quiet 26 dB(A)
- Low watt motor 5.6w
- Low SFP 0.29 W/l/s
- Compatible with 100mm ducting
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty

The fan comes in various control options and is recessed into the wall. The Aura range of fans are slim, compact, attractively styled, are easy to wipe clean and are ideal for through the wall installations.

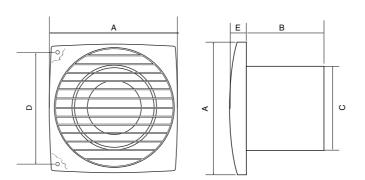
Models

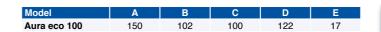
| Basic | Control by Remote Switch |
|---------------------|---|
| Timer | Timer can be set to run on between 2 and 30 minutes |
| Humidity Timer | Humidity sensor can be set between 60 - 90% RH |
| Motion Sensor Timer | PIR sensor activates fan |

Technical Data

| Specification | Aura eco 100B | Aura eco 100T | Aura eco 100HT | Aura eco 100MST |
|-------------------------------------|----------------------|----------------------|----------------------|----------------------|
| Air flow m ³ /hr / l/sec | 70 / 19 | 70 / 19 | 70 / 19 | 70 / 19 |
| Fan type | Axial | Axial | Axial | Axial |
| Controls | Basic | Timer | Humidity Timer | Motion Sensor Timer |
| Mounting | Wall / Ceiling | Wall / Ceiling | Wall / Ceiling | Wall / Ceiling |
| Sound pressure dB(A)@3m | 26 | 26 | 26 | 26 |
| Power watts | 5.6 | 5.6 | 5.6 | 5.6 |
| Amps | 0.035 | 0.035 | 0.035 | 0.035 |
| Specific Fan Power (SFP) | 0.29 | 0.29 | 0.29 | 0.29 |
| Duct diameter (mm) | 100 | 100 | 100 | 100 |
| Voltage | 230v / 1ph / 50-60Hz |
| Rating | IPX4 | IPX4 | IPX4 | IPX4 |
| Material finish | Plastic | Plastic | Plastic | Plastic |
| Weight (kg) | 0.56 | 0.56 | 0.56 | 0.56 |
| Dimensions (H x W x D) mm | 150 x 150 x 102 |
| Part No. | 9041347 | 9041348 | 9041349 | 9041350 |

Dimensions (mm)





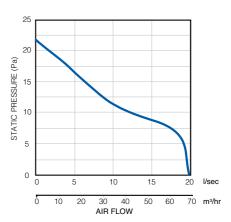








Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

Aura eco 125

Toilet, en-suite and bathroom ventilation





Aura eco 125

Highly reliable, low energy fan in a modular design for ease of installation and maintenance. The Aura eco 125 is designed to provide quiet extraction in a suitable application. **Key Features**

- Axial fan
- Ventilation up to 115 m³/hr
- Slim compact styling
- Quick and easy to fit
- Quiet 31 dB(A)
- Low watt motor 9.3w
- Low SFP 0.3 W/l/s
- Compatible with 125mm ducting
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty

The fan comes in various control options and is recessed into the wall. The Aura range of fans are slim, compact, attractively styled, are easy to wipe clean and are ideal for through the wall installations.

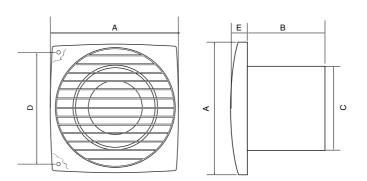
Models

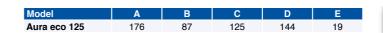
| Basic | Control by Remote Switch |
|---------------------|---|
| Timer | Timer can be set to run on between 2 and 30 minutes |
| Humidity Timer | Humidity sensor can be set between 60 - 90% RH |
| Motion Sensor Timer | PIR sensor activates fan |

Technical Data

| Specification | Aura eco 125B | Aura eco 125T | Aura eco 125HT | Aura eco 125MST |
|-------------------------------------|----------------------|----------------------|----------------------|----------------------|
| Air flow m ³ /hr / l/sec | 115 / 31 | 115 / 31 | 115 / 31 | 115 / 31 |
| Fan type | Axial | Axial | Axial | Axial |
| Controls | Basic | Timer | Humidity Timer | Motion Sensor Timer |
| Mounting | Wall / Ceiling | Wall / Ceiling | Wall / Ceiling | Wall / Ceiling |
| Sound pressure dB(A)@3m | 31 | 31 | 31 | 31 |
| Power watts | 9.3 | 9.3 | 9.3 | 9.3 |
| Amps | 0.060 | 0.060 | 0.060 | 0.060 |
| Specific Fan Power (SFP) | 0.30 | 0.30 | 0.30 | 0.30 |
| Duct diameter (mm) | 125 | 125 | 125 | 125 |
| Voltage | 230v / 1ph / 50-60Hz |
| Rating | IPX4 | IPX4 | IPX4 | IPX4 |
| Material finish | Plastic | Plastic | Plastic | Plastic |
| Weight (kg) | 0.7 | 0.7 | 0.7 | 0.7 |
| Dimensions (H x W x D) mm | 176 x 176 x 104 |
| Part No. | 90000532 | 90000533 | 90000534 | 90000535 |

Dimensions (mm)





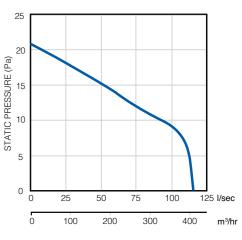








Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

Aura eco 150

Larger bathroom, utility room and kitchen ventilation (adjacent to hob)





Aura eco 150 range

Highly reliable, low energy fan in a modular design for ease of installation and maintenance. The Aura eco 150 is designed to provide quiet extraction in a suitable application.

Key Features

- Axial fan
- Ventilation up to 235 m³/hr
- Slim compact styling
- Quick and easy to fit
- Quiet 35 dB(A)
- Low watt motor 20w
- Low SFP 0.31 W/I/s
- Compatible with 150mm ducting
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty

The fan comes in various control options and is recessed into the wall or ceiling. The Aura range of fans are slim, compact, attractively styled, are easy to wipe clean and can be ducted over short lengths.

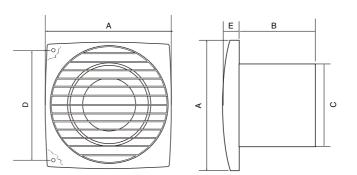
Models

| Basic | Control by Remote Switch |
|---------------------|---|
| Timer | Timer can be set to run on between 2 and 30 minutes |
| Humidity Timer | Humidity sensor can be set between 60 - 90% RH |
| Motion Sensor Timer | PIR sensor activates the fan |

Technical Data

| Specification | Aura eco 150B | Aura eco 150T | Aura eco 150HT | Aura eco 150MST |
|-------------------------------------|----------------------|----------------------|----------------------|----------------------|
| Air flow m ³ /hr / l/sec | 235 / 65 | 235 / 65 | 235 / 65 | 235 / 65 |
| Fan type | Axial | Axial | Axial | Axial |
| Controls | Basic | Timer | Humidity Timer | Motion Sensor Timer |
| Mounting | Wall / Ceiling | Wall / Ceiling | Wall / Ceiling | Wall / Ceiling |
| Sound pressure dB(A)@3m | 35 | 35 | 35 | 35 |
| Power watts | 20 | 20 | 20 | 20 |
| Amps | 0.14 | 0.14 | 0.14 | 0.14 |
| Specific Fan Power (SFP) | 0.31 | 0.31 | 0.31 | 0.31 |
| Duct diameter (mm) | 150 | 150 | 150 | 150 |
| Voltage | 230v / 1ph / 50-60Hz |
| Rating | IPX4 | IPX4 | IPX4 | IPX4 |
| Material finish | Plastic | Plastic | Plastic | Plastic |
| Weight (kg) | 0.9 | 0.9 | 0.9 | 0.9 |
| Dimensions (H x W x D) mm | 205 x 205 x 124 |
| Part No. | 9041351 | 9041352 | 9041353 | 9041354 |

Dimensions (mm)



| Model | А | В | С | D | Е |
|--------------|-----|-----|-----|-----|----|
| Aura eco 150 | 205 | 124 | 150 | 174 | 19 |

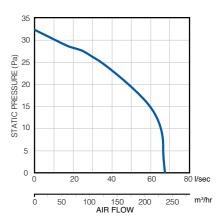








Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.



Key Features

- Axial in-line fan
- Ventilation up to 108 m³/hr
- Designed for ventilation of small and medium size rooms
- Use for both supply or extraction
- Compact and quiet in operation
- Mounting bracket included
- Ductable
- IPX4 rating
- 3 year warranty



Aura In-Line range

Highly reliable fan in a modular design for ease of installation and maintenance. Aura In-Line Fans are designed to provide extraction levels that comply with the latest Building Regulations.

The fans are manually operated by a remote switch (switch not supplied). Timer control versions are also available. Install in-line with ducting for a quiet and discreet installation.

The Aura in-line fan comes with a fixing bracket and is compact, attractively styled and ductable over short lengths. They are the ideal solution for removing damp moist air, odours and airborne pollutants from toilets and bathrooms.

| () | ALW |
|------|-----|
| NIV) | ENS |
| | |

ALWAYS PULL FLEXIBLE DUCTING TAUGHT TO ENSURE INSTALLED PERFORMANCE AIR FLOW.





Models

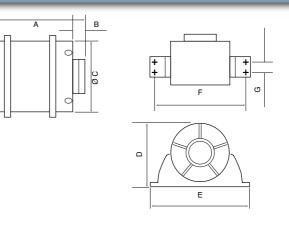
| Basic | Control by Remote Switch |
|-------|---|
| Timer | Timer can be set to run on between 2 and 30 minutes |

Technical Data

| Specification | Aura In-Line 100B | Aura In-Line 100T |
|---------------------------------------|-------------------|-------------------|
| Air flow m ³ /hr* / l/sec* | 108 / 30 | 108 / 30 |
| Fan type | Axial | Axial |
| Controls | Basic | Timer |
| Mounting | In-Line | In-Line |
| Sound pressure dB(A)@3m | 39 | 39 |
| Power watts | 16 | 16 |
| Amps | 0.1 | 0.1 |
| Specific Fan Power (SFP) | 0.53 | 0.53 |
| Duct diameter (mm) | 100 | 100 |
| Voltage | 230v / 1ph / 50Hz | 230v / 1ph / 50Hz |
| Rating | IPX4 | IPX4 |
| Material finish | ABS | ABS |
| Weight (kg) | 0.41 | 0.41 |
| Dimensions (H x W x D) mm | 110 x 160 x 113 | 110 x 160 x 113 |
| Part No. | 9041355 | 9041356 |
| | | |

* Air flow at free discharge

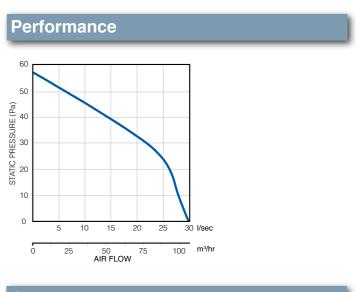
Dimensions (mm)



| Model | Α | В | С | D | E | F | G |
|------------------|----|----|-----|-----|-----|-----|----|
| Aura in-line 100 | 85 | 28 | 100 | 110 | 160 | 144 | 29 |







Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

Aura Shower Kit

Shower ventilation





- Axial in-line fan
- Ventilation up to 108 m³/hr
- Designed for ventilation / lighting above shower cubicles
- Use for both supply or extraction
- Compact and quiet in operation
- Mounting bracket included
- Ductable
- Halogen lamp option
- IPX4 rating
- 3 year warranty



Aura Shower Kit range

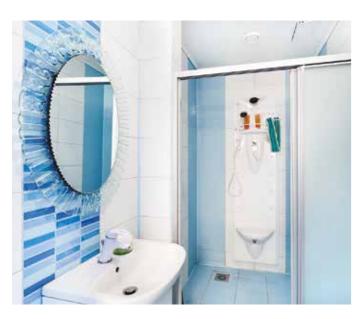
Highly reliable fan in a modular design for ease of installation and maintenance. Aura In-Line Fans are designed to provide extraction levels that comply with the latest Building Regulations.

The fans are manually operated by a remote switch (switch not supplied). Timer control versions are also available. Install in-line with ducting for a quiet and discret installation.

The Aura in-line fan comes with a fixing bracket and is compact, attractively styled and ideal for short duct runs. They are the ideal solution for removing damp moist air, odours and airborne pollutants from toilets and bathrooms.



ALWAYS PULL FLEXIBLE DUCTING TAUGHT TO ENSURE INSTALLED PERFORMANCE AIR FLOW.





Models

 Basic
 Control by Remote Switch

 Timer
 Timer can be set to run on between 2 and 30 minutes

Contents of Kits

9041420 Aura 100B, 3m flex duct, ties, extract valve, external grille

9041419 Aura 100T, 3m flex duct, ties, extract valve, external grille

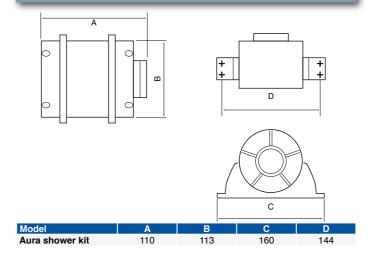
9041422 Aura 100B, 3m flex duct, ties, halogen lamp + chrome and white grilles, external grille

9041421 Aura 100T, 3m flex duct, ties, halogen lamp + chrome and white grilles, external grille

Technical Data

| Specification | Aura Shower Kit | Aura T Shower Kit | Aura Shower Kit with Hallogen Lamp | Aura T Shower Kit with Hallogen Lamp | |
|---------------------------------------|-------------------|--------------------|---------------------------------------|---|--|
| Air flow m ³ /hr* / l/sec* | 108 / 30 | 108 / 30 | 108 / 30 | 108 / 30 | |
| Fan type | Axial | Axial | Axial | Axial | |
| Controls | Basic | Timer (adjustable) | Basic | Timer (adjustable) | |
| Mounting | In-Line | In-Line | In-Line | In-Line | |
| Sound pressure dB(A)@3m | 39 | 39 | 39 | 39 | |
| Power watts | 16 | 16 | 16 | 16 | |
| Amps | 0.01 | 0.01 | 0.01 | 0.01 | |
| Specific Fan Power (SFP) | 0.53 | 0.53 | 0.53 | 0.53 | |
| Duct diameter (mm) | 100 | 100 | 100 | 100 | |
| /oltage | 230v / 1ph / 50Hz | 230v / 1ph / 50Hz | 230v / 1ph / 50Hz | 230v / 1ph / 50Hz | |
| Rating | IPX4 | IPX4 | IPX4 | IPX4 | |
| Material finish | ABS | ABS | ABS | ABS | |
| Weight (kg) | 0.41 | 0.41 | 0.41 | 0.41 | |
| Dimensions (H x W x D) mm | 110 x 160 x 113 | 110 x 160 x 113 | 110 x 160 x 113 | 110 x 160 x 113 | |
| Part No. | 9041420 | 9041419 | 9041422 | 9041421 | |
| | | | | * Air flow at free disch | |

Dimensions (mm)

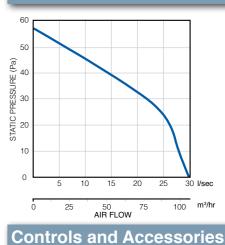








Performance



A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

Aura Smart





Aura Smart

The Aura Smart is an innovative low energy axial fan with a unique design for ease of installation and maintenance. The fan is extra slim and with optional colour covers available, it will blend perfectly into the décor of any room. The fan is suitable for mounting anywhere outside of Zone 2 of your wetroom.

The fan comes with interchangeable spigots giving the user the option to use 100mm or 125mm ducting and increase the flow rate accordingly.

Key Features

- Two speed axial fan
- Flow rate up to 133 m³/hr
- Interchangeable spigots 100/125mm
- Modern compact styling optional front covers to match décor
- Quick and easy to fit
- A separate remote controller
- Versatile positioning portrait or landscape
- Exceptionally quiet 21 dB(A)
- Energy efficient low watt motor 3.8W
- Advanced controls for ultimate user comfort
- Universal voltage 100/240v 50/60Hz
- IP44 rating
- Complies with Building Regulations
- 5 year warranty

This smart fan is available with either humidity timer control or motion sensor humidity timer control giving the user the benefit of achieving the perfect micro climate within their home. Aura Smart has a one-touch control panel beneath the cover for control of the fan. A separate remote controller is also included for convenient control of all the functions – it's a Smart Fan!

Interval ventilation occurs automatically every 15 hours for a period of 2 hours - this ensures regular movement of the air and keeps the room fresh.





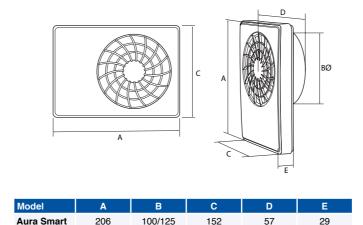
Models

- Humidity TimerHumidity sensor activates fan if humidity rises by
less than 20% within 10 minutes, run on time reverts
to 15 minutes instead of the preset rates of 30, 45 or
60 minutes.Motion Sensor
Humidity TimerPIR sensor activates fan to switch on overrun timer
kicks in can be set at 5, 15 or 30 minutes.
 - If humidity sensor activates the fan run on time, to clear humidity can be set at 30, 45 or 60 minutes. If the humidity rises by less than 20% in 10 minutes the overrun time will revert to 15 minutes.

Technical Data

| Specification | Aura Sm | art HT | Aura Sm | art MSHT | | Covers | |
|---|-----------|----------|---------------|----------------|--|---------------|-----------|
| Spigot size | 100mm | 125mm | 100mm | 125mm | нт | Colour | MSHT |
| Air flow m ³ /hr* | 72 / 106 | 83 / 133 | 72 / 106 | 83 / 133 | 90000386 | Marble | 90000416 |
| Air flow l/sec* | 20 / 29 | 23 / 37 | 20 / 29 | 23 / 37 | 90000387 | Silver | 90000417 |
| Fan type | Axia | al | Ax | kial | 90000388 | Champagne | 90000418 |
| Controls | Humidity | Timer | Motion Sensor | Humidity Timer | 90000389 | Red | 90000419 |
| Mounting | Wa | I | W | all | 90000390 | Mauve | 90000420 |
| Sound pressure dB(A)@3m | 22 / 31 | 21 / 32 | 22 / 31 | 21 / 32 | 90000391 | Graphite | 90000421 |
| Adjustable delay start (min) | 0, 2, | 5 | 0, 2 | 2, 5 | 90000392 | Black | 90000422 |
| Adjustable timer (min) | 5, 15, | 30 | 5, 15 | 5, 30 | and the second s | | |
| Adjustable timer on humidity activation (min) | 30, 45 | , 60 | 30, 4 | 15, 60 | | | |
| Interval timer, auto start (hrs) | 15 | | 1 | 5 | 150 2.0 | | |
| Power watts | Up to | 3.8 | Up to | o 3.8 | Marble | Silver Champa | agne Red |
| Specific Fan Power (SFP) | 0.13 | 0.1 | 0.13 | 0.1 | Warble | | agrie neu |
| Building Regulations ADF | Yes | 6 | Ye | es | | | |
| Voltage | 100-240V/ | 50-60Hz | 100-240 | //50-60Hz | | | |
| Rating | IP4 | 4 | IP | 44 | Mauve G | raphite Blac | k |
| Weight (Kg) | 0.6 | 3 | 0. | 63 | | | |
| Dimensions (H x W x D)mm | 206x15 | 2x86 | 206x1 | 52x86 | | | |
| Part No. | 90000 | 384 | 9000 | 0385 | * Air flow at fre | e discharge | |

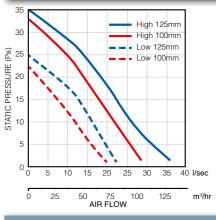
Dimensions (mm)







Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

QuietAir QT100

Toilet, bathroom and en-suite ventilation





QT100 range

The whisper quiet QuietAir QT100 is designed to provide powerful extraction levels that exceed the requirements of the latest Building Regulations.

The QuiteAir QT100 is the quietest fan available complying with Building Regulations "Installed Performance" requirements when ducted.

QuietAir is a range of elegant, discreet axial fans that are extremely quiet with various control options that activate the fan only when needed – remote switching,

Key Features

Axial fan

- Two speed ventilation up to 90 m³/hr*
- Awarded Quiet Mark by Noise Abatement Society
- Extremely quiet, noise levels as low as 25 dB(A)
- Power consumption from only 5w
- Interval timer for routine auto extraction
 Very low SFP of 0.24 W/l/s
- Long life ball-bearing motor 40,000 hours
- Integral flow straightener / backdraught flap
- Powerful extraction for longer ducts
- Suitable for installation anywhere in Zone 1 of bathrooms when installed with an RCD
- IP45 rating
- Complies with Building Regulations
- 3 year warranty

timer, humidity timer and motion sensor with timer. By using exceptionally low energy this helps to reduce carbon emissions and also save on your energy bills. It has a high efficiency impeller for extraction through up to 12m of rigid ducting and still complies with the Building Regulations.

Room refresh (interval timer) enables automatic extraction at pre-set times if required.



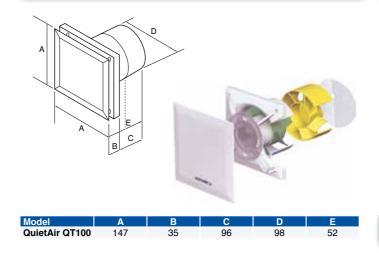
Models

| Basic | Control by remote switch | |
|--|--|--|
| Timer | Timer can be set to run on for 6,10,15 or 21 minutes | |
| Humidity Timer | Humidity sensor can be set between 60 - 90% RH | |
| Motion Sensor Timer PIB sensor activates fan | | |

Technical Data

| Specification | QuietAir QT100B | QuietAir QT100T | QuietAir QT100HT | QuietAir QT100MST |
|----------------------------------|----------------------|----------------------|----------------------|----------------------|
| Air flow m ³ /hr* | 75 / 90 | 75 / 90 | 75 / 90 | 75 / 90 |
| Air flow l/sec* | 21 / 25 | 21 / 25 | 21 / 25 | 21 / 25 |
| Fan type | Axial | Axial | Axial | Axial |
| Controls | Basic | Timer | Humidity Timer | Motion Sensor Timer |
| Mounting | Wall / Ceiling | Wall / Ceiling | Wall / Ceiling | Wall / Ceiling |
| Sound pressure dB(A)@3m | 25/30 | 25/30 | 25/30 | 25/30 |
| Delay start (min) | No | 2 | 2 | No |
| Adjustable timer (min) | No | 6,10,15,21 | 6,10,15,21 | 15 |
| Adjustable humidity (%RH) | | | 60 - 90 | |
| Interval timer, auto start (hrs) | | 0,8,12,24 | | |
| Power watts | 5/9 | 5/9 | 5/9 | 5/9 |
| Amps | 0.04/0.06 | 0.04/0.06 | 0.04/0.06 | 0.04/0.06 |
| Specific Fan Power (SFP) | 0.24 | 0.24 | 0.24 | 0.24 |
| Building Regulations ADF | Yes | Yes | Yes | Yes |
| Duct Diameter (mm) | 100 | 100 | 100 | 100 |
| Voltage | 230v / 1ph / 50-60Hz |
| Rating | IP45 | IP45 | IP45 | IP45 |
| Max ambient temperature | 40°C | 40°C | 40°C | 40°C |
| Weight (kg) | 0.8 | 0.8 | 0.8 | 0.8 |
| Dimensions (H x W x D) mm | 147 x 147 x 131 |
| Part No. | 9041259 | 9041260 | 9041261 | 9041262 |

Dimensions (mm)





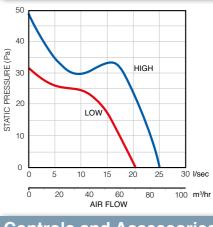
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* 2nd Speed activated by remote switch

Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

QuietAir QT120

Toilet, bathroom, utility room and kitchen (adjacent to hob)





QT120 range

The powerful performance QuietAir 120 is designed to provide extraction levels that exceed the requirements of the latest Building Regulations.

QuietAir, is a range of elegant, discreet axial fans that are supremely quiet. By using exceptionally low energy they help to reduce carbon emissions but also save on your electricity bill.

Key Features

- Axial fan
- Two speed ventilation up to 170 m³/hr*
- Awarded Quiet Mark by Noise Abatement Society
- Quiet, noise level as low as 32 dB(A)
- Power consumption from only 10w
- Very low SFP of 0.24 W/l/s, IP45 rating
- Interval timer for routine auto extraction
- Long life ball-bearing motor 40,000 hours
- Integral flow straightener / backdraught flap
- Powerful extraction for longer ducts
- Suitable for installation anywhere in Zone 1 of bathrooms when installed with an RCD
- Install in a kitchen adjacent to the hob
- Complies with Building Regulations
- 3 year warranty

Operated by a range of control options including basic switching, timer, humidity and motion sensor control.

Room refresh (interval timer) enables automatic extraction at pre-set times if required.

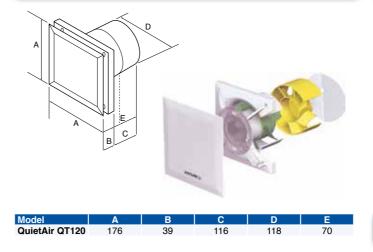
Models

| Basic | Control by remote switch | |
|--|--|--|
| Timer | Timer can be set to run on for 6,10,15 or 21 minutes | |
| Humidity Timer | Humidity sensor can be set between 60 - 90% RH | |
| Motion Sensor Timer PIR sensor activates fan | | |

Technical Data

| Specification | QuietAir QT120B | QuietAir QT120T | QuietAir QT120HT | QuietAir QT120MST |
|----------------------------------|----------------------|----------------------|----------------------|----------------------|
| Air flow m ³ /hr* | 150 / 170 | 150 / 170 | 150 / 170 | 150 / 170 |
| Air flow l/sec* | 42 / 47 | 42 / 47 | 42 / 47 | 42 / 47 |
| Fan type | Axial | Axial | Axial | Axial |
| Controls | Basic | Timer | Humidity Timer | Motion Sensor Timer |
| Mounting | Wall / Ceiling | Wall / Ceiling | Wall / Ceiling | Wall / Ceiling |
| Sound pressure dB(A)@3m | 32/36 | 32/36 | 32/36 | 32/36 |
| Delay start (min) | No | 2 | 2 | No |
| Adjustable timer (min) | No | 6,10,15,21 | 6,10,15,21 | 15 |
| Adjustable humidity (%RH) | - | - | 60 - 90 | - |
| Interval timer, auto start (hrs) | - | 0,8,12,24 | | - |
| Power watts | 10/13 | 10/13 | 10/13 | 10/13 |
| Amps | 0.08/0.09 | 0.08/0.09 | 0.08/0.09 | 0.08/0.09 |
| Specific Fan Power (SFP) | 0.24 | 0.24 | 0.24 | 0.24 |
| Building Regulations ADF | Yes | Yes | Yes | Yes |
| Duct Diameter (mm) | 125 | 125 | 125 | 125 |
| Voltage | 230v / 1ph / 50-60Hz |
| Rating | IP45 | IP45 | IP45 | IP45 |
| Max ambient temperature | 40°C | 40°C | 40°C | 40°C |
| Weight (kg) | 1.05 | 1.05 | 1.05 | 1.05 |
| Dimensions (H x W x D) mm | 176 x 176 x 155 |
| Part No. | 9041497 | 9041498 | 9041499 | 9041500* |

Dimensions (mm)



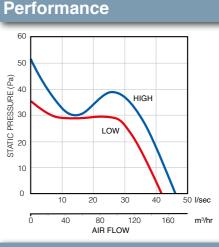








* 2nd Speed activated by remote switch



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

QuietAir QT150





QT150 range

The powerful performance QuietAir 150 is designed to provide extraction levels that exceed the requirements of the latest Building Regulations. Ideal for kitchens and larger rooms.

QuietAir, is a range of elegant, discreet axial fans that are supremely quiet. By using exceptionally low energy they help to reduce carbon emissions but also save on your electricity bill.

Key Features

Axial fan

- Two speed ventilation up to 260 m³/hr
- Quiet, noise level as low as 35 dB(A)
- Power consumption from only 6w
- Very low SFP of 0.09 W/l/s, IP45 rating
- Interval timer for routine auto extraction
- Long life ball-bearing motor 40,000 hours
- Integral flow straightener / backdraught flap
- Powerful extraction for longer ducts
- Variable speed control version
- Install in a kitchen / light commercial
- Complies with Building Regulations
- 3 year warranty

Operated by a range of control options including basic switching, timer, humidity and variable speed control.

Room refresh (interval timer) enables automatic extraction at pre-set times if required.



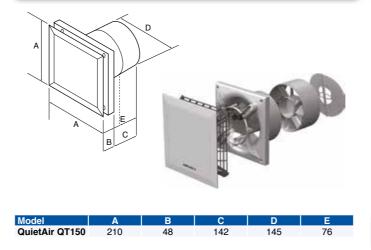
Models

| Basic | Control by remote switch |
|----------------|--|
| Timer | Timer can be set to run on for 6,10,15 or 21 minutes |
| Humidity Timer | Humidity sensor can be set between 60 - 90% RH |
| Variable speed | Controlled by remote switch |

Technical Data

| Specification | QuietAir QT150B | QuietAir QT150T | QuietAir QT150HT | QuietAir QT150VS |
|----------------------------------|-------------------|-------------------|-------------------|-------------------|
| Air flow m³/hr* | 220 / 260 | 220 / 260 | 220 / 260 | 50 - 260 |
| Air flow l/sec* | 61 / 72 | 61 / 72 | 61 / 72 | 13 - 72 |
| Fan type | Axial | Axial | Axial | Axial |
| Controls | Basic | Timer | Humidity Timer | Variable Speed |
| Mounting | Wall / Ceiling | Wall / Ceiling | Wall / Ceiling | Wall / Ceiling |
| Sound pressure dB(A)@3m | 35/39 | 35/39 | 35/39 | 35/39 |
| Delay start (sec's) | No | 0,45,90,120 | 0,45,90,120 | No |
| Adjustable timer (mins) | No | 6,10,15,21 | 6,10,15,21 | No |
| Adjustable humidity (%RH) | - | - | 60 - 90 | - |
| Interval timer, auto start (hrs) | - | 0,8,12,24 | - | - |
| Power watts | 6/10 | 6/10 | 6/10 | 6/10 |
| Amps | 0.07/0.12 | 0.07/0.12 | 0.07/0.12 | 0.07/0.12 |
| Specific Fan Power (SFP) | 0.09/0.13 | 0.09/0.13 | 0.09/0.13 | 0.09/0.13 |
| Building Regulations ADF | Yes | Yes | Yes | Yes |
| Duct Diameter (mm) | 145 | 145 | 145 | 145 |
| Voltage | 230v / 1ph / 50Hz |
| Rating | IP45 | IP45 | IP45 | IP45 |
| Max ambient temperature | 40°C | 40°C | 40°C | 40°C |
| Weight (kg) | 1.2 | 1.2 | 1.2 | 1.2 |
| Dimensions (H x W x D) mm | 210 x 210 x 190 |
| Part No. | 90000454 | 90000455 | 90000456 | 90000458 |
| Variable speed controller | | | | 90000514* |

Dimensions (mm)

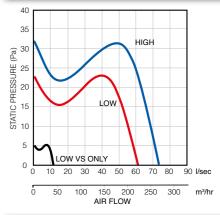




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Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

See accessories section from page 209 for more details.

* refer to accessories section.

Maxivent eco

Larger bathroom, utility room and kitchen





Maxivent eco range

Highly reliable and powerful axial fan in a modular design for ease of installation and maintenance. Maxivent is designed to provide extraction levels that comply with the latest Building Regulations.

Key Features

- Axial fan
- High performance fan up to 260 m³/hr
- Easy to fit and clean
- Can be mounted in the wall or ceiling
- Interchangeable fixing holes to easily replace most other 150mm fans
- Variable speed controller available
- Thermally protected motor
- Low watt motor 28w
- Low SFP 0.38 W/l/s
- Silent automatic shutter
- IP45 rating
- Complies with Building Regulations
- 3 year warranty

Maxivent fans offer quiet powerful performance in units equipped with auto shutters. These stylish, modern 150mm axial fans will blend comfortably with existing décor and are quick and easy to install. They are the ideal solution for removing damp moist air, odours and airborne pollutants from kitchens and utility rooms.

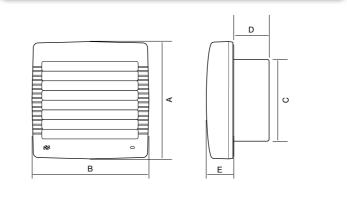
Models

| Pull Cord | Activated by pull cord |
|--------------------|---|
| Timer | Timer can be set to run on between 1 and 30 minutes |
| Humidity Pull Cord | Humidity sensor can be set between 40 - 95% RH, override with pull cord |

Technical Data

| Specification | Maxivent eco P |
|-----------------------------|----------------------|
| Air flow m ³ /hr | 260 |
| Air flow l/sec | 72 |
| Fan type | Axial |
| Controls | Pull Cord |
| Mounting | Wall / Ceiling |
| Sound pressure dB(A)@3m | 57 |
| Power watts | 28 |
| Amps | 2 |
| SFP@72 l/sec | 0.38 |
| Building Regulations ADF | Yes |
| Duct diameter (mm) | 150 |
| Voltage | 230v / 1ph / 50-60Hz |
| Rating | IP45 |
| Weight (kg) | 2.45 |
| Dimensions (H x W x D) mm | 225 x 225 x 105 |
| Part No. | 72678201 |
| Variable speed controller | |

Dimensions (mm)







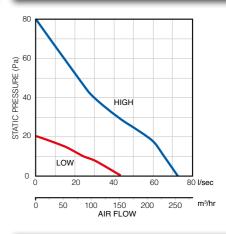


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| Maxivent eco T | Maxivent eco H |
|----------------------|----------------------|
| 260 | 158 / 260 |
| 72 | 44 / 72 |
| Axial | Axial |
| Timer | Humidity / Pull Cord |
| Wall / Ceiling | Wall / Ceiling |
| 57 | 46/57 |
| 28 | 28 |
| 2 | 2 |
| 0.38 | 0.38 |
| Yes | Yes |
| 150 | 150 |
| 230v / 1ph / 50-60Hz | 230v / 1ph / 50-60Hz |
| IP45 | IP45 |
| 2.45 | 2.45 |
| 225 x 225 x 105 | 225 x 225 x 105 |
| 72678301 | 72678401 |
| 9041033* | |

Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

See accessories section from page 209 for more details.

* refer to accessories section

Unique, elegant, efficient



"A revolution in fan design. You have never seen a fan like it or installed a fan like it either"

Today, as we introduce the next generation of energy

saving iCON, these award winning fans remain the market leader for simplicity and style with its unique,

interchangeable module concept continuing to save time

iCON 15 is ideal for toilets, en-suite, shower rooms and

bathrooms. Recessed into the wall or ceiling, it is stylish

iCON 30 is quiet, powerful and designed for recessed

or surface mounting in walls or ceilings in larger toilets,

iCON 60 is the largest fan in the range, suitable for

recessed or surface mounting in walls or ceilings and

is highly efficient in domestic kitchens, changing areas

and money for distributors and installers alike.

and unobtrusive, even in the smallest space.



iC2N° 15

iC2N°30

iCAN 60

and residents' lounges.

bathrooms and utility rooms.

In 2004 Airflow introduced iCON. A radical new design which brought style, colour and a new level of functionality to the bland world of boxy extractor fans.

The changes were not just cosmetic, but the results of a complete rethink of the way in which fans are designed, specified, sold and installed.













Silver

Sandstone

Its looks aren't everything

Installation

iCON has been designed with simplicity in mind. A quick, core drilled hole enables immediate fixing of iCON. The twist on/off cover requires only a single side entry fixing screw.



Cantilever fixing lugs enable recessed installation on uneven surfaces. iCON 30 and iCON 60 are also supplied with a narrow contour skirt for surface mounting if preferred.



The 'snap-in' module is quick to fit and wire, giving the installer a choice of controls on-site.



Wholesalers and Installers save too!

Designed with the busy contractor in mind with modular design and maximum fan choice, you save time and make more money. Just carry three basic fans and a range of inexpensive fan control modules to install fans quickly and move faster from site to site.

- Go from site to site
- Just carry three basic fans and a choice of control modules
- All modules fit all fans.*
- Reduce trips to the wholesaler for site-specific fans.

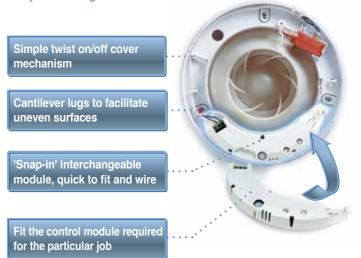
*subject to Voltage



9 8 in f

Modular versatility and simplicity. Select the fan, iCON 15, iCON 30, iCON 60 and add the module. Any module fits any fan.*

*subject to voltage



Minimal stock and maximum choice equals more profit

Wholesalers only need to stock three basic fans and offer a range of control modules to...



STOP using up valuable shelving space with boxes for every type of fan. **SAVE** up to half your valuable shelving space by stocking three basic fans and a range of popular control modules.



| BASIC | | \lor | | $\overline{\mathbb{Y}}$ | ^א ג א | DELAY Start | CV |
|-----------|----------|--------|----------|-------------------------|---------------------|----------------|------------|
| SWITCHING | PULLCORD | TIMER | HUMIDITY | MOTION | TWO SPEED | 2 MINS | CONTINUOUS |

Key Features

- Axial fan
- Flow rate up to 68 m³/hr
- Stylish, slim and unobtrusive in walls or ceilings
- Low SFP 0.49 W/l/s
- Different colour covers available
- Unique iris shutter, prevents backdraughts, operates silently
- Interchangeable control modules match fan to installation requirements
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty

iCON 15

iCON 15 is ideal for toilets, en-suites, shower rooms and bathrooms. Recessed into the wall or ceiling, it is stylish and unobtrusive, even in the smallest of spaces. The circular design means no squaring up is required, adding to the already simple installation procedure.

iCON 15 is designed to provide ventilation levels that comply with the latest Building Regulations. The iCON fan is an efficient, stylish and unique ventilation solution for

the modern home. The shutter design makes switching on and off almost silent and helps reduce external noise ingress.

The slim profile and iris shutter of the iCON make it a fan which will blend discreetly into any setting. Two iCON 15 shower kits including (Timer / Humidity Timer) module and ducting installation kits are avilable.





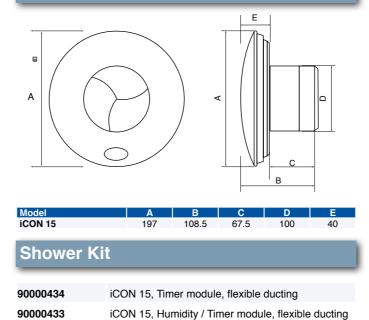
Modules

| See page 72 for n | See page 72 for module functionality | | | | |
|-------------------|--|--|--|--|--|
| 72573602 | Pull Cord | | | | |
| 72612601 | Timer | | | | |
| 72687103 | Humidity, Pull Cord with Timer overrun | | | | |
| 72687104 | Motion Sensor with Timer overrun | | | | |
| 72687102 | Motion Sensor Humidity Timer | | | | |
| 72675701 | Continuous Ventilation at 8/13 l/sec | | | | |
| 72675702 | Delayed Timer with Pull Cord | | | | |
| 72675703 | 2 Speed Humidity Pull Cord boost | | | | |

Technical Data

| Specification | iCON 15 |
|-------------------------------------|----------------|
| Air flow m ³ /hr / l/sec | 68/19 |
| | |
| Fan type | Axial |
| Mounting | Wall / Ceiling |
| Sound pressure dB(A)@3m | 30.3 |
| Power watts | 8.8 |
| Specific Fan Power (SFP) | 0.49 |
| Building Regulations ADF | Yes |
| Duct diameter (mm) | 100 |
| Voltage | 230/1/50Hz |
| Rating | IPX4 |
| Max ambient temperature | 40°C |
| Weight (kg) | 0.74 |
| Dimensions (H x W x D) mm | 197 x 197 x 40 |
| Part No. | 72683501 |

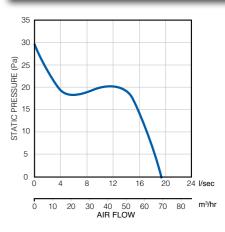
Dimensions (mm)







Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

iCON 30

Stylish toilet, bathroom and utility room ventilation



| BASIC | | | | $\overline{\mathbb{Y}}$ | <i>م</i> م م | DELAY Start | CV |
|-----------|----------|-------|----------|-------------------------|-----------------|----------------|------------|
| SWITCHING | PULLCORD | TIMER | HUMIDITY | MOTION | TWO SPEED | 2 MINS | CONTINUOUS |

Key Features

- Mixed flow fan
- Flow rate up to 118 m³/hr
- Recess or surface mounting
- Different colour covers available
- Perfect for longer duct runs
- Unique iris shutter, prevents backdraughts, operates silently
- Interchangeable control modules match fan to installation requirements
- Circular design, no squaring up
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty

iCON 30

iCON 30 is quiet, powerful and designed for recessed or surface mounting in walls or ceilings in larger toilets, bathrooms and utility rooms.

iCON 30 is designed to provide ventilation levels that comply with the latest Building Regulations.

The iCON fan is an efficient, stylish and unique ventilation solution for the modern home. The shutter design makes switching on and off almost silent and helps reduce external noise ingress.

The slim profile and iris shutter of the iCON make it a fan which will blend discreetly into any setting.





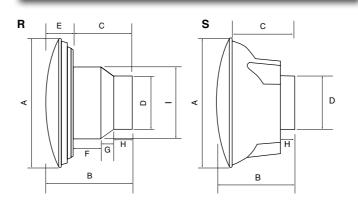
Modules

| See page 72 for n | nodule functionality |
|-------------------|--|
| 72573602 | Pull Cord |
| 72612601 | Timer |
| 72687103 | Humidity, Pull Cord with Timer overrun |
| 72687104 | Motion Sensor with Timer overrun |
| 72687102 | Motion Sensor Humidity Timer |
| 72675701 | Continuous Ventilation at 8/13 l/sec |
| 72675702 | Delayed Timer with Pull Cord |
| 72675703 | 2 Speed Humidity Pull Cord boost |

Technical data

| Specification | iCON 30 |
|-------------------------------------|---------------------------|
| Air flow m ³ /hr / l/sec | 118 / 32 |
| Fan type | Mixed Centrifugal / Axial |
| Mounting | Wall / Ceiling |
| Sound pressure dB(A)@3m | 33.6 |
| Power watts | 18 |
| Building Regulations ADF | Yes |
| Duct diameter (mm) | 100 |
| Voltage | 230v / 1ph / 50Hz |
| Rating | IPX4 |
| Max ambient temperature | 40°C |
| Weight (kg) | 1.11 |
| Dimensions (H x W x D) mm | 225 x 225 x 141 |
| Part No. | 72591601 |

Dimensions (mm)



R = Recessed without skirt

 $\mathbf{S} =$ Surface mounted with skirt

| Model | Α | В | С | D | E | F | G | Н | I |
|-------------|-----|-----|-----|----|----|----|----|----|-----|
| iCON 30 (R) | 225 | 144 | 101 | 97 | 43 | 51 | 20 | 30 | 148 |
| iCON 30 (S) | 225 | 144 | 92 | 97 | - | - | - | 29 | - |





Covers

 52634507
 Silver

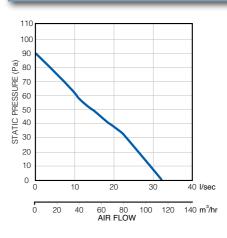
 52634508
 Sands

 52634506
 Anthra

Sandstone Anthracite



Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

iCON 60

Stylish large bathroom, utility room and kitchen ventilation



| BASIC | | | | $\widehat{\mathbb{Y}}$ | ^{א ה} א 2 | DELAY Start | CV |
|-----------|----------|-------|----------|------------------------|------------------------------|----------------|------------|
| SWITCHING | PULLCORD | TIMER | HUMIDITY | MOTION | TWO SPEED | 2 MINS | CONTINUOUS |

Key Features

- Mixed flow fan
- Flow rate up to 260 m³/hr
- Recess or surface mounting
- Different colour covers available
- Perfect for longer duct runs
- Unique iris shutter, prevents backdraughts, operates silently
- Interchangeable control modules match fan to installation requirements
- Circular design, no squaring up
- IPX4 rating
- Complies with Building Regulations ADF
- 3 year warranty

iCON 60

iCON 60 is the largest, most powerful fan in the range. It is suitable for recessed or surface mounting in walls or ceilings and is highly efficient in domestic kitchens, large bathrooms and utility rooms.

iCON 60 is designed to provide ventilation levels that comply with the latest Building Regulations.

The iCON fan is an efficient, stylish and unique ventilation solution for the modern home. The shutter design makes switching on and off almost silent and helps reduce external noise ingress. The slim profile and iris shutter of the iCON make it a fan which will blend discreetly into any setting.

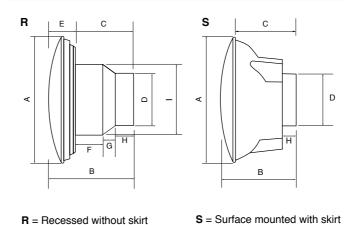
Modules

| Soo page 72 for m | nodule functionality | _ |
|-------------------|--|---|
| 72573602 | Pull Cord | |
| 72612601 | Timer | |
| | | |
| 72687103 | Humidity, Pull Cord with Timer overrun | |
| 72687104 | Motion Sensor with Timer overrun | |
| 72687102 | Motion Sensor Humidity Timer | |
| 72675701 | Continuous Ventilation at 8/13 l/sec | |
| 72675702 | Delayed Timer with Pull Cord | |
| 72675703 | 2 Speed Humidity Pull Cord boost | |

Technical data

| Specification | iCON 60 |
|-------------------------------------|---------------------------|
| Air flow m ³ /hr / l/sec | 270 / 75 |
| Fan type | Mixed Centrifugal / Axial |
| Mounting | Wall / Ceiling |
| Sound pressure dB(A)@3m | 42 |
| Power Watts | 63.1 |
| Building Regulations ADF | Yes |
| Duct diameter (mm) | 150 |
| Voltage | 230v / 1ph / 50Hz |
| Rating | IPX4 |
| Max ambient temperature | 40°C |
| Weight (kg) | 1.97 |
| Dimensions (H x W x D) mm | 280 x 280 x 165 |
| Part No. | 72591701 |
| | |

Dimensions (mm)



| Model | A | В | С | D | E | F | G | Н | |
|-----------|-----|-----|-----|-----|----|----|----|----|-----|
| iCON 60 R | 280 | 165 | 110 | 148 | 55 | 38 | 20 | 52 | 177 |
| iCON 60 S | 280 | 165 | 80 | 148 | - | - | - | 46 | - |



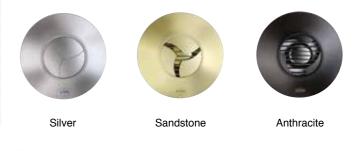




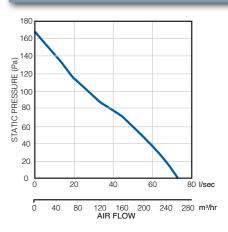


Covers

| 52634510 | Silver |
|----------|------------|
| 52634511 | Sandstone |
| 52634509 | Anthracite |



Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

iCON 15S eco

Stylish toilet and bathroom ventilation





iCON 15S eco

iCON 15S eco 12 volt low energy fans with brushless DC motors offer significantly reduced energy consumption compared with standard AC motors. Fitted with ballbearing motors for extra long life, each model is supplied with a remote mounting 100/240v AC to 12vDC transformer. Stylish, slim and unobtrusive in walls or ceilings. The circular design means no squaring up is required, adding to the already simple installation procedure.

Key Features

- Low energy axial fan
- Flow rate up to 79 m³/hr
- Stylish, slim and unobtrusive in walls or ceilings
- Different colour covers available
- Unique iris shutter, prevents backdraughts, operates silently
- Interchangeable control modules match fan to installation requirements
- Low watt motor 7.5w
- SFP 0.34 W/I/s
- Universal voltage 100/240v 50/60Hz
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty

iCON 15S eco is designed to provide ventilation levels that comply with the latest Building Regulations.

The iCON fan is an efficient, stylish and unique ventilation solution for the modern home. The shutter design makes switching on and off almost silent and helps reduce external noise ingress. The slim profile and iris shutter of the iCON make it a fan which will blend discreetly into any setting.

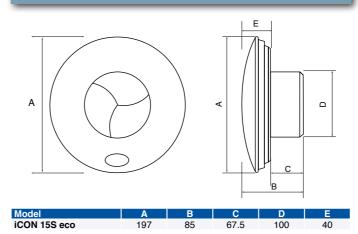


| See page 72 for m | odule functionality | _ |
|-------------------|--|---|
| 72573603 | Pull Cord | |
| 72574204 | Pull Cord with adjustable Timer | |
| 72574202 | Humidity, Pull Cord with Timer overrun | |
| 72574203 | Motion Sensor with Timer overrun | |
| 72574201 | Motion Sensor / Humidity / Timer | |
| 72682307 | Delay Start Timer with Pull Cord | |

Technical Data

| Specification | iCON 15S eco |
|-------------------------------------|------------------|
| Air flow m ³ /hr / l/sec | 79 / 22 |
| Fan type | Axial |
| Mounting | Wall / Ceiling |
| Sound pressure dB(A)@3m | 30.3 |
| Power watts | 5.6 |
| Specific Fan Power (SFP) | 0.34 |
| Building Regulations ADF | Yes |
| Duct diameter (mm) | 100 |
| Voltage | 100/240v-50/60Hz |
| Rating | IPX4 |
| Max ambient temperature | 40°C |
| Weight (kg) | 0.74 |
| Dimensions (H x W x D) mm | 197 x 197 x 40 |
| Part No. | 72683701 |

Dimensions (mm)











Covers

| 52634504 | Silver |
|----------|------------|
| 52634505 | Sandstone |
| 52634502 | Chrome |
| 52634503 | Anthracite |





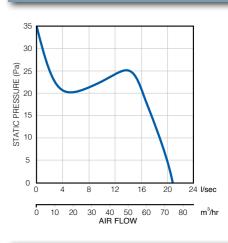
Sandstone

Chrome



Anthracite

Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

iCON 30S eco

Stylish toilet, bathroom and utility ventilation





iCON 30S eco

iCON 30S eco 12 volt low energy fans with brushless DC motors offer significantly reduced energy consumption compared with standard AC motors. Fitted with ball -bearing motors for extra long life, each model is supplied with a remote mounting 100/240v AC to 12v DC transformer. Stylish, slim and unobtrusive in walls or ceilings.

iCON 30S eco is designed to provide ventilation levels that comply with the latest Building Regulations.





Key Features

or ceilings

operates silently

Low watt motor - 13w

SFP 0.38 W/I/s

• 3 year warranty

IPX4 rating

any setting.

Low energy mixed flow fan
Flow rate up to 123 m³/hr

Stylish, slim and unobtrusive in walls

Unique iris shutter, prevents backdraughts,

Interchangeable control modules match fan

The iCON fan is an efficient, stylish and unique ventilation solution for the modern home. The shutter design makes

switching on and off almost silent and helps reduce

external noise ingress. The slim profile and iris shutter

of the iCON make it a fan which will blend discreetly into

Recessed or surface mountingDifferent colour covers available

to installation requirements

Universal voltage 100/240v - 50/60Hz

Complies with Building Regulations

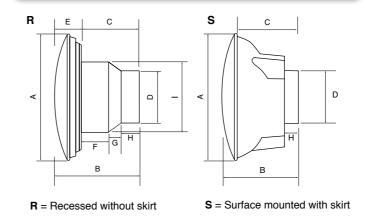
Modules

| See page 72 for n | nodule functionality |
|-------------------|--|
| 72573603 | Pull Cord |
| 72574204 | Pull Cord with adjustable Timer |
| 72574202 | Humidity, Pull Cord with Timer overrun |
| 72574203 | Motion Sensor with Timer overrun |
| 72574201 | Motion Sensor / Humidity / Timer |
| 72682307 | Delay Start Timer with Pull Cord |

Technical Data

| Specification | iCON 30S eco |
|-------------------------------------|---------------------------|
| Air flow m ³ /hr / l/sec | 123 / 34 |
| Fan type | Mixed Centrifugal / Axial |
| Mounting | Wall / Ceiling |
| Sound pressure dB(A)@3m | 33.6 |
| Power watts | 7.7 |
| Specific Fan Power (SFP) | 0.38 |
| Building Regulations ADF | Yes |
| Duct diameter (mm) | 100 |
| Voltage | 100/240v-50/60Hz |
| Rating | IPX4 |
| Max ambient temperature | 40°C |
| Weight (kg) | 1.1 |
| Dimensions (H x W x D) mm | 225 x 225 x 141 |
| Part No. | 72683801 |

Dimensions (mm)



| Model | Α | В | С | D | E | F | G | Н | |
|------------------|-----|-----|-----|----|----|----|----|----|-----|
| iCON 30S eco (R) | 225 | 144 | 101 | 97 | 43 | 51 | 20 | 30 | 148 |
| iCON 30S eco (S) | 225 | 144 | 92 | 97 | - | - | - | 29 | - |



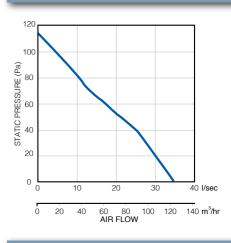
 52634507
 Silver

 52634508
 Sand

 52634506
 Anthr

Sandstone Anthracite





Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

iCON 15 eco Stylish toilet and bathroom ventilation



| | | | $\overline{\mathbb{Y}}$ | DELAY Start | ^۲ ۲ ۲ | CV | |
|----------|-------|----------|-------------------------|----------------|------------------------|------------|--|
| PULLCORD | TIMER | HUMIDITY | MOTION | 2 MINS | TWO SPEED | CONTINUOUS | |

iCON 15 eco

iCON 15 eco with the brand new SMPS technology located in the module converts 100/240v AC power into 12v DC power. The advantage of this quicker and easier installation is a neater and more compact method of powering a low energy fan than a bulky transformer.

iCON 15 eco is designed to provide ventilation levels that comply with the latest Building Regulations. The Specific Fan Power is also well within the parameters of the energy requirements of the Building Regulations

Key Features

- Super low energy axial fan
- Flow rate 79 m³/hr
- Switch Mode Power Supply (SMPS) located in the module
- Stylish, slim and unobtrusive in walls or ceilings
- Different colour covers available
- Unique iris shutter, prevents backdraughts, operates silently
- Quiet operation 35 dB(A)
- Interchangeable control modules match fan to installation requirements
- Low watt motor 7.5W
- SFP 0.34 W/l/s
- Voltage supply 100/240v-50/60Hz
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty

The iCON fan is an efficient, stylish and unique ventilation solution for the modern home. The shutter design makes switching on and off almost silent and helps reduce external noise ingress. The slim profile and iris shutter of the iCON make it a fan which will blend discreetly into any setting.





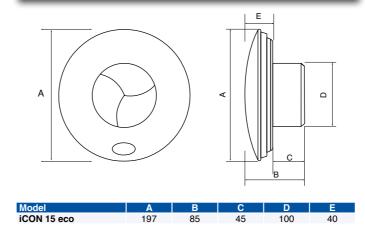
Modules

| See page 73 for r | nodule functionality | |
|---------------------|---------------------------------------|--|
| 72687127 | Pull Cord | |
| 72687128 | Timer | |
| 72687129 | Humidity Pull Cord with Timer overrun | |
| 72687130 | Motion Sensor with Timer overrun | |
| 72687131 | Motion Sensor Humidity Timer | |
| 72687132 | Continuous Ventilation at 8/13 l/sec | |
| 72687133 | Delayed Timer | |
| 72687134 | 2 Speed Humidity Pull Cord boost | |
| Note: This fan regu | ires a module to operate | |

Technical Data

| Specification | iCON 15 eco |
|-------------------------------------|------------------|
| Air flow m ³ /hr / l/sec | 79 / 22 |
| Fan type | Axial |
| Mounting | Wall / Ceiling |
| Sound pressure dB(A)@3m | 30.3 |
| Power watts | 7.5 |
| Specific Fan Power (SFP) | 0.34 |
| Building Regulations ADF | Yes |
| Duct diameter (mm) | 100 |
| Voltage | 100/240v-50/60Hz |
| Rating | IPX4 |
| Max ambient temperature | 40°C |
| Weight (kg) | 0.74 |
| Dimensions (H x W x D) mm | 197 x 197 x 40 |
| Part No. | 72687121 |

Dimensions (mm)







Covers

| Silver |
|------------|
| Sandstone |
| Anthracite |
| Chrome |
| |



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

iCON 30 eco

Stylish toilet, bathroom and utility ventilation



| | | | Ŷ | DELAY Start | <i>م</i> ر م | CV | |
|----------|-------|----------|--------|----------------|-----------------|------------|--|
| PULLCORD | TIMER | HUMIDITY | MOTION | 2 MINS | TWO SPEED | CONTINUOUS | |

iCON 30 eco

iCON 30 eco with the brand new SMPS technology located in the module converts 100/240v AC power into 12v DC power. The advantage of this quicker and easier installation is a neater and more compact method of powering a low energy fan than a bulky transformer.

iCON 30 eco is designed to provide ventilation levels that comply with the latest Building Regulations. The Specific Fan Power is also well within the parameters of the energy requirements of the Building Regulations

Key Features

- Super low energy mixed flow fan
- Flow rate up to 112 m³/hr
- Switch Mode Power Supply (SMPS) located in the module
- Stylish, slim and unobtrusive in walls or ceilings
- Recessed or surface mounting
- Different colour covers available
- Unique iris shutter, prevents backdraughts, operates silently
- Quiet operation from 34dB(A)
- Interchangeable control modules match fan to installation requirements
- Low watt motor 14W
- SFP 0.45 W/l/s
- Voltage supply 100/240v-50/60Hz
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty

The iCON fan is an efficient, stylish and unique ventilation solution for the modern home. The shutter design makes switching on and off almost silent and helps reduce external noise ingress. The slim profile and iris shutter of the iCON make it a fan which will blend discreetly into any setting.





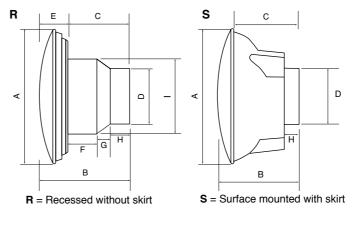
Modules

| See page 73 for | module functionality | |
|---------------------|---------------------------------------|--|
| 72687127 | Pull Cord | |
| 72687128 | Timer | |
| 72687129 | Humidity Pull Cord with Timer overrun | |
| 72687130 | Motion Sensor with Timer overrun | |
| 72687131 | Motion Sensor Humidity Timer | |
| 72687132 | Continuous Ventilation at 8/13 l/sec | |
| 72687133 | Delayed Timer | |
| 72687134 | 2 Speed Humidity Pull Cord boost | |
| Note: This fan regi | uires a module to operate | |

Technical Data

| Specification | iCON 30 eco |
|-------------------------------------|---------------------------|
| Air flow m ³ /hr / l/sec | 112 / 31 |
| Fan type | Mixed Centrifugal / Axial |
| Mounting | Wall / Ceiling |
| Sound pressure dB(A)@3m | 33.6 |
| Power watts | 14 |
| Specific Fan Power (SFP) | 0.45 |
| Building Regulations ADF | Yes |
| Duct diameter (mm) | 100 |
| Voltage | 100/240v-50/60Hz |
| Rating | IPX4 |
| Max Ambient Temperature | 40°C |
| Weight (kg) | 1.11 |
| Dimensions (H x W x D) mm | 225 x 225 x 141 |
| Part No. | 72687122 |

Dimensions (mm)



| Model | Α | В | С | D | E | F | G | Н | |
|-----------------|-----|-----|-----|----|----|----|----|----|-----|
| iCON 30 eco (R) | 225 | 144 | 101 | 97 | 43 | 51 | 20 | 30 | 148 |
| iCON 30 eco (S) | 225 | 144 | 92 | 97 | - | - | - | 29 | - |





Covers

| 52634507 | Silver |
|----------|------------|
| 52634508 | Sandstone |
| 52634506 | Anthracite |





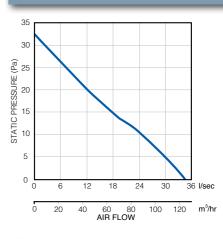


Anthracite

Silver

Sandstone

Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

iCON 60 eco

Stylish large bathroom, utility room and kitchen ventilation - coming soon



| BASIC | | | | $\widehat{\mathbb{Y}}$ | DELAY Start | גר גר ל | CV | |
|-----------|----------|-------|----------|------------------------|----------------|---------------|------------|--|
| SWITCHING | PULLCORD | TIMER | HUMIDITY | MOTION | 2 MINS | TWO SPEED | CONTINUOUS | |

iCON 60 eco

iCON 60 eco with the brand new SMPS technology located in the module converts 100/240v AC power into 12v DC power. The advantage of this quicker and easier installation is a neater and more compact method of powering a low energy fan than a bulky transformer.

iCON 60 eco is designed to provide ventilation levels that comply with the latest Building Regulations. The Specific Fan Power is also well within the parameters of the energy requirements of the Building Regulations

- **Key Features**
- Super low energy mixed flow fan
- Switch Mode Power Supply (SMPS) located in the module
- Stylish, slim and unobtrusive in walls or ceilings
- Recessed or surface mounting
- Different colour covers available
- Unique iris shutter, prevents backdraughts, operates silently
- Quiet operation
- Interchangeable control modules match fan to installation requirements
- Low watt motor
- Voltage supply 100/240v-50/60Hz
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty

The iCON fan is an efficient, stylish and unique ventilation solution for the modern home. The shutter design makes switching on and off almost silent and helps reduce external noise ingress. The slim profile and iris shutter of the iCON make it a fan which will blend discreetly into any setting.





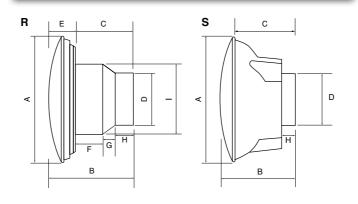
Modules

| See page 73 for m | nodule functionality | | | |
|----------------------|--|--|--|--|
| 72687127 | Pull Cord | | | |
| 72687128 | Timer | | | |
| 72687129 | Humidity, Pull Cord with Timer overrun | | | |
| 72687130 | Motion Sensor with Timer overrun | | | |
| 72687131 | Motion Sensor Humidity Timer | | | |
| 72687132 | Continuous Ventilation at 8/13 l/sec | | | |
| 72687133 | Delayed Timer | | | |
| 72687134 | 2 Speed Humidity Pull Cord boost | | | |
| Note: This fan requi | ires a module to operate | | | |

Technical Data

| Specification | iCON 60 eco | | | | |
|-------------------------------------|---------------------------|--|--|--|--|
| Air flow m ³ /hr / l/sec | tba / tba | | | | |
| Fan type | Mixed Centrifugal / Axial | | | | |
| Mounting | Wall / Ceiling | | | | |
| Sound pressure dB(A)@3m | tba | | | | |
| Power watts | tba | | | | |
| Building Regulations ADF | Yes | | | | |
| Duct diameter (mm) | 150 | | | | |
| Voltage | 100/240v-50/60Hz | | | | |
| Rating | IPX4 | | | | |
| Max ambient temperature | 40°C | | | | |
| Weight (kg) | 1.97 | | | | |
| Dimensions (H x W x D) mm | 280 x 280 x 165 | | | | |
| Part No. | 72687123 | | | | |

Dimensions (mm)



R = Recessed without skirt

S = Surface mounted with skirt

| Model | Α | В | С | D | E | F | G | Н | |
|---------------|-----|-----|-----|-----|----|----|----|----|-----|
| iCON 60 eco R | 280 | 165 | 110 | 148 | 55 | 38 | 20 | 52 | 177 |
| iCON 60 eco S | 280 | 165 | 80 | 148 | - | - | - | 46 | - |





Covers

| 52634510 | Silver |
|----------|------------|
| 52634511 | Sandstone |
| 52634509 | Anthracite |





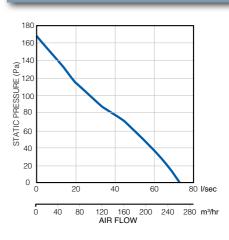
Sandstone



Anthracite

Silver

Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.





Choose the function Select the module It's iCON simple



The module concept which is unique to iCON, gives one the option of determining how you wish to control your fan and based on your requirement select the appropriate module. Airflow has invested extensively in the research and development of our modules to bring our customers the most versatile controllability available in the extractor fan market. Our extensive range of control functions has helped the iCON product range become the leading brand it is today.

The same module is compatible with all three size iCON's - 15, 30 and 60. However, it should be noted that there are specific 240V modules and different low voltage SELV modules (please refer to the table below for details and part numbers of the various modules).

Replacing a module is also a lot simpler and cheaper than replacing the entire fan.

| Modules for use | e in 240V iCON | Fans iCON 15 - 72683501 iCON 30 - 72591601 iCON 60 - 72591701 |
|-----------------|-----------------|--|
| Part No. | Control | Function |
| 72573602 | PCM | Manual on/off control by pull cord switch |
| 72612601 | ТМ | Adjustable timer between 1 - 30 minutes, remote or light switch operation |
| 72687103 | HTM | Adjustable humidity setting between 40 - 90% RH, adjustable timer and momentary pull cord to activate timer |
| 72687104 | PRTM | Motion sensor activation with adjustable timer |
| 72687102 | PRHTM | Motion sensor activation with adjustable humidity setting and adjustable timer |
| 72675701 | CV2 | Continuous Ventilation at 8 or13 l/sec. Boost to a maximum flow rate of the fan by remote switching or pull cord |
| 72675702 | DTM | Delayed start for 2 minutes after light switch operation (ideal for quick visits) then adjustable timer between 2 - 45 minutes (DTM only). Momentary pull cord to activate timer |
| 72675703 | 2SHM | Remote light switch operation activates low speed. Boost speed activated by automatic humidity sensor (adjustable 40 - 90% RH) or manually by momentary cord |
| Modules for use | e in 12V iCON S | ELV Fans with remote transformer iCON 15S eco - 72683701 iCON 30S eco - 72683801 |
| 72573603 | PCS | Manual on/off control by pull cord switch |
| 72574204 | PCTS | Adjustable timer between 1 - 30 minutes, pull cord/ remote or light switch operation |
| 72574202 | HTS | Adjustable humidity setting 40 - 90% RH, adjustable timer and momentary pull cord to activate timer |
| 72574203 | PRTS | Motion sensor activation with adjustable timer |
| 72574201 | PRHTS | Motion sensor activation with adjustable humidity setting and adjustable timer |
| 72682307 | DTS | Delayed start for 2 minutes after light switch operation (ideal for quick visits) pull cord then adjustable timer between 2 - 45 minutes (DTS only). Momentary pull cord to activate timer |

iCON Modules

| Modules with integral transformer for use in 12V iCON fans iCON | | | | | |
|---|---------|---|--|--|--|
| Part No. | Control | | | | |
| 72687127 | PCE | Manual on/off control by pull cord switch | | | |
| 72687128 | TE | Adjustable timer between 1 - 30 minutes | | | |
| 72687129 | HTE | Adjustable humidity setting between 40 - | | | |
| 72687130 | MSTE | Motion sensor activation with adjustable | | | |
| 72687131 | MSHTE | Motion sensor activation with adjustable | | | |
| 72687132 | CVE | Continuous Ventilation at 8 or 13 l/sec. Boost to a maximum flow rate of the fan | | | |
| 72687133 | DTE | Delayed start for 2 minutes after light sw then adjustable timer between 2 - 45 mi | | | |
| 72687134 | 2SHE | Remote light switch operation activates (adjustable 40 - 90% RH) or manually by | | | |
| | | | | | |

iC2N[®] Covers



Silver

Sandstone

To complement the décor of your home, we also offer the flexibility to upgrade the white cover to Anthracite, simply wiping off with a damp cloth. Sandstone, Silver or Chrome (iCON 15 only). This We are convinced that our exclusive design and product is perfect for customers looking for a fan that blends configuration possibilities, have contributed to iCON seamlessly into the surroundings adding colour and fans, modules and covers becoming one of the most co-ordination to any toilet, en-suite, bathroom, utility successful brand names in the extractor fan business. room or kitchen at a surprisingly low cost.



eco - 72687121 iCON 30 eco - 72687122 iCON 60 eco - 72687123 Function

- s, pull cord / remote or light switch operation
- 90% RH, adjustable timer and momentary pull cord to activate timer e timer
- e humidity setting and adjustable timer
- h by remote switching or pull cord
- witch operation (ideal for quick visits)
- ninutes (DTE only). Pull cord to activate timer
- low speed. Boost speed activated by automatic humidity sensor by momentary pull cord

Adding colour and style to your home with a coloured iCON cover

| Colour Covers | iCON 15 | iCON 30 | iCON 60 |
|---------------|----------|----------|----------|
| Anthracite | 52634503 | 52634506 | 52634509 |
| Silver | 52634504 | 52634507 | 52634510 |
| Sandstone | 52634505 | 52634508 | 52634511 |
| Chrome | 52634502 | N/A | N/A |

The covers are simple to fit and can be easily cleaned by

iCONstant

Continuous Ventilation - suitable for any room





iCONstant.

Based on our very successful iCON brand, we have developed the quietest dMEV fan available for toilet/ bathroom and utility room installation bringing incredibly low sound levels to this market sector. The fan is perfect in the kitchen too. Utilizing the very latest motor technology and incorporating advanced features we have been able to produce an energy efficient fan that will help eliminate the problems of condensation by continuously extracting the damp air that is the source of the problem.

Key Features

- From 10dB(A) the quietest dMEV fan available
- Selectable trickle flow rates 22/29/47 m³/hr. Boost up to 72 m³/hr
- Just over £1.00 per year to run on trickle speed
- Constant volume Guaranteed to deliver installed performance
- The only IPX5 dMEV fan rated for both wall and ceiling installs
- Timer and Humidity versions. Two minute delay start (boost) option
- Memory retained in event of a power cut
- LED self diagnostics and 'fine tune' commissioning option of flow rate
- Complies with Building Regulations
- SAP Appendix Q eligible
- 3 year warranty

The iCONstant boasts features that reduce human intervention and ensure the fan is always operating at the optimum level whatever the circumstances of the installation. This is perfect for the social housing sector where specifiers, landlords and tenants all seek a ventilation solution that is energy efficient, economical to run and quiet to operate.

iCONstant, the virtually silent, low energy dMEV fan from Airflow – packed with features – results guaranteed.





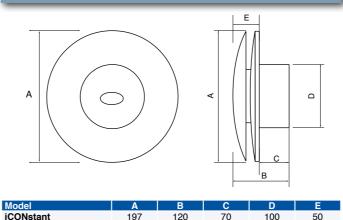
Models

| Timer | On boost timer can be set to run on for 2, 15, 30 or 40 minutes |
|----------------|--|
| Humidity Timer | Intelligent humidity sensor adjustable between 60% and 90%. On boost, timer can be set to run on for 2, 15, 30 or 40 minutes |

Technical Data

| Specification | | iCONstant | |
|---|------------------|-----------------------|-------------|
| Air flow m ³ /hr (trickle/boost) | 22 / 29 | 29 / 47 | 47 / 72 |
| Air flow l/sec (trickle/boost) | 6/8 | 8 / 13 | 13 / 20 |
| Fan type | Axial | | |
| Controls | | Timer/ Humidity Timer | |
| Sound pressure dB(A)@3m | 10 / 15 | 15 / 28 | 28 / 38 |
| Power watts | 1.07 / 1.21 | 1.21 / 1.68 | 1.68 / 2.90 |
| Amps | | 3 | |
| Calculated Specific Fan Power (SFP) | 0.18 / 0.15 | 0.15 / 0.13 | 0.13 / 0.14 |
| Building Regulations ADF | Yes | | |
| Duct diameter (mm) | 100 | | |
| Voltage | 100/240V-50/60Hz | | |
| Rating (wall and ceiling) | | IPX5 | |
| Weight (kg) | | 0.55 | |
| Dimensions (H x W x D) mm | | 197 x 197 x 120 | |
| Part No. | 72 | 687117 (T) 72687118 | (HT) |

Dimensions (mm)



SAP Appendix Q Performance

| Unit configuration | Location | Fan speed setting | Specific fan power (W/I/S) |
|-------------------------|----------|-------------------|-------------------------------|
| In soom (visid duct) | Kitchen | 13 l/s | 0.18 |
| In room (rigid duct) | Wet room | 8 l/s | 0.19 |
| | Kitchen | 13 l/s | 0.20 |
| In room (flexible duct) | Wet room | 8 l/s | 0.19 |
| Through wall | Kitchen | 13 l/s | 0.15 |
| (rigid duct) | Wet room | 8 l/s | 0.16 |
| source: BRE | | | |

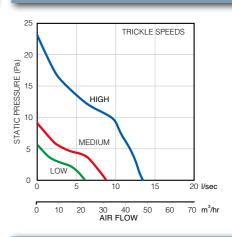






Cover removed showing LED self diagnostics and 'fine tuning' commissioning functionality

Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

iCONstant Continuous Ventilation - suitable for any room

Why dMEV?

In the Building Regulations dMEV is often referred to as decentralised Mechanical Extract Ventilation. The Airflow iCONstant dMEV continuous ventilation fan will provide the perfect solution for both new build and retrofitting into any domestic home, particularly where there has been an increased level of insulation making it more airtight or the homeowner/tenant has a particular problem with condensation or mould. The iCONstant with Timer or Humidity Timer functionality are also SAP Appendix Q eligible.

Economical to Operate – less than a light bulb

iCONstant has been developed to consume minimal energy using a highly efficient 24v DC motor. The motor draws a mere 1.07w on the lowest trickle speed of 6 l/sec. The boost speed on the humidity version is intelligently controlled so as to minimise the period of the boost flow and not significantly ramp up running costs. The yearly running cost of the iCONstant is just over one Pound operating at 6 l/sec. This is less than a low energy light bulb if left on 24/7 - a small price to pay to ensure the well-being of the occupier and help preserve the fabric of the building.

Versatile Applications – one fan for all rooms

iCONstant dMEV fans can be used in any of the wet rooms. The required trickle rate is selected by the installer when the fan is fitted – this is dependent on the application - for toilets select 6 l/sec, en-suites, bathrooms and utility rooms select 8 l/sec and for kitchens it is 13 l/sec. The boost speed will be the next

speed level up with a maximum speed of 20 l/sec. The boost to the higher speed is activated by one of the following methods; integral momentary pull cord, remote switch (optional) or intelligent humidity sensor. Should there be a power interruption in the property, the settings will be maintained.

Simple Controllability – optimizing your ventilation

On the timer version, the boost speed can be set to run on for between 2 and 40 minutes. With the Humidity Timer version, the intelligent humidity sensor will activate the boost speed when the set point is reached – this can be adjusted anywhere between 60% and 90%. When the humidity level falls below the set-point again, the fan will revert to the trickle speed. Boost speed is activated by the integral pull cord or by a remote switch (optional).





Packed with useful features with the user in mind

Airflow's intelligent humidity sensor offers the additional feature of being able to recognize a rapid increase in humidity and activates the boost speed before the pre-set value is reached so that preventive ventilation commences. Should this occur, the fan reverts to the trickle speed when the humidity level is within 10% of the set-point. The benefits of this are that energy consumption is kept to a minimum and noise levels are reduced whilst ensuring optimum ventilation is achieved, before excessive condensation occurs.

Another feature is the ability to delay the start of the boost function by two minutes. This is particularly advantageous for those quick visits during the middle of the night. The boost activation by the pull cord and humidity sensor is instant.

Cutting Edge LED Setup

The iCONstant is fitted with a unique setup diagnostic LED light. This self proving technology facilitates the setup process and the storage of settings. Flow settings

Constant Volume Guaranteed

The iCONstant is fitted with a flow sensor to continually monitor flow. Should conditions change, such as on a windy day, the fan will automatically adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to contain the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to continually adjust the flow rate with a flow sensor to contain the flow rate with a flow sensor to contain the flow rate with a flow sensor to contain the flow rate with a flow sensor to contain the flow rate with a flow sensor to contain the flow rate with a flow sensor to contain the flow rate with a flow sensor to contain the flow rate with a flow sensor to contain the flow rate with a flow sensor to contain the flow rate with a flow sensor to contain the flow rate with a flow sensor to contain the flow rate with a flow sensor to contain the flow rate with a flow sensor to contain the flow sens

Ensuring Installed Performance

The everyday running rate can be adjusted if required, up to the maximum speed of the fan by simply pressing the +/- buttons. This 'fine tuning' is very useful during maintained.

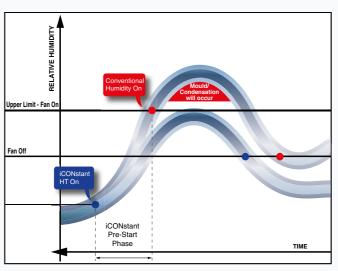
User safety is our priority

As we have achieved IPX5 ingress protection rating on this product, you will be able to fit the iCONstant anywhere within Zones 1 and 2* of your bathroom/ ensuite. This makes our product incredibly safe to operate which is another reason for housing associations and * Wired in accordance with IEEE wiring regualtions 17th edition

Another stylish design from Airflow

iCONstant's circular design is based on our very successful iCON brand of extractor fans. Customers like our circular design as this enhances the style and appearance of the / ceiling.





LOOVENT eco

A fan for every room



| | | | Ŵ | DELAY Start | <i>م</i> م م ^م ر م | |
|----------|-------|----------|--------|----------------|-------------------------------------|------|
| PULLCORD | TIMER | HUMIDITY | MOTION | 2 MINS | TWO SPEED | SELV |

The next generation...

From an excellent pedigree of fans for over 40 years comes the next generation of fans – LOOVENT eco. A powerful, discreetly styled fan in a modular design for ease of installation and maintenance to ensure effective ventilation with minimal noise level and energy efficiency in mind.

It is exceptionally quiet with various "on-demand" control options that only activate the fan when needed - timer, humidity timer and motion sensor with timer. The low



- Two speed centrifugal fan
- Flow rate up to 110 m³/hr
- Compact design smallest 30 l/sec fan in class
- For toilets, bathrooms, en-suites, utility rooms and kitchens (adjacent to hob)
- Well proven, centrifugal, filterless technology
- Surface or recessed, portrait or landscape
- Simple replacement of existing Loovent same mounting and spigot position
- Economical to operate from 3.6w
- Timer, humidity timer and motion sensor Timer versions
- SELV versions low voltage
- Voltage supply 100/240v-50/60Hz
- IPX5 rating
- Complies with Building Regulations
- 5 year warranty

energy motor helps reduce carbon emissions and saves on energy bills.

The LOOVENT eco is truly versatile in that it can be surface or recessed mounted into the wall or ceiling and fitted in either the portrait or landscape position.

LOOVENT eco is ideal for replacing the old Loovent 01C or existing Loovent 01 as the spigot position is identical and the back plates are the same size keeping reworking to a minimum.





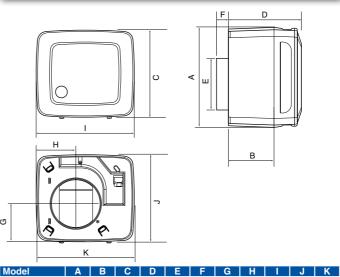
Models

| Timer / SELV T | Timer can be set to run on between 2 and 45 m |
|--------------------------|---|
| Humidity Timer / SELV HT | Humidity sensor can be set between 40 - 90% |
| Motion Sensor Timer | PIR sensor activates fan to switch on, timer ov |

Technical Data

| Specification | LOOVENT eco T | LOOVENT eco HT | LOOVENT eco MST |
|------------------------------|------------------|------------------|---------------------|
| Air flow m³/hr (low / boost) | 62 / 110 | 62 / 110 | 62 /110 |
| Air flow l/sec (low / boost) | 17/31 | 17 / 31 | 17 / 31 |
| Fan type | Centrifugal | Centrifugal | Centrifugal |
| Controls | Timer | Humidity Timer | Motion Sensor Timer |
| Sound pressure dB(A)@3m | 29 / 47 | 29 / 47 | 29/47 |
| Power watts | 3.6 / 12 | 3.6 / 12 | 3.6 / 12 |
| Amps | 3 | 3 | 3 |
| Specific Fan Power (SFP) | 0.21 / 0.40 | 0.21 / 0.40 | 0.21/0.40 |
| Building Regulations ADF | Yes | Yes | Yes |
| Duct diameter (mm) | 100 | 100 | 100 |
| Voltage | 100/240v-50/60Hz | 100/240v-50/60Hz | 100/240v-50/60Hz |
| Rating | IPX5 | IPX5 | IPX5 |
| Weight (kg) | 1,0 | 1,0 | 1,0 |
| Dimensions (H x W x D) mm | 167 x 187 x 138 | 167 x 187 x 138 | 167 x 187 x 138 |
| Devi Ma | 72684305 | 72684306 | 72684307 |
| Part No. | 72684309 (SELV) | 72684310 (SELV) | N/A |

Dimensions (mm)



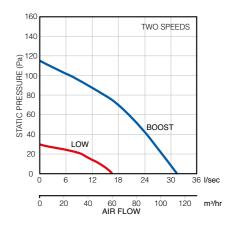
LOOVENT eco 167 85.5 167 138.5 99 22 74.5 75 187 162.6182.6





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Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

LOOVENT eco dMEV

Continuous ventilation





The next generation...

The dMEV continuous ventilation versions are the ideal solution for maintaining the perfect air quality in the domestic home. The LOOVENT eco dMEV versions with timer and humidity timer functionality are SAP Appendix Q eligible, making them perfect for the new build market.

The trickle rate should be selected on installation depending on the application - 7 l/sec for toilets, 9 l/sec for bathrooms / en-suites / utility rooms and 16 l/sec for kitchens. Boost speed is activated by the pull cord,

Key Features

- Continuous running centrifugal fan
- Trickle flow rate from 25 m³/hr
- Boost flow rate up to 110 m³/hr
- Compact design smallest footprint in class
- Ideal for New Build and Refurbishments in toilets, bathrooms, en-suites, utility rooms and kitchens (adjacent to hob)
- Surface or recessed, portrait or landscape
- Simple replacement of existing Loovent same mounting and spigot position
- Economical to operate from 2.8w
- Timer and humidity timer versions
- SELV versions low voltage
- Voltage supply 100/240v-50/60Hz
- IPX5 rating
- Complies with Building Regulations
- SAP Appendix Q eligible
- 5 year warranty

humidity sensor or a remote switch (light / door switch). Boost speeds are 15,15 and 31 l/sec respectively. The pre-set run on timer period will apply and revert back to the trickle speed after this time.

LOOVENT eco is ideal for replacing the old Loovent 01C or existing Loovent 01 as the spigot position is identical and the back plates are the same size keeping reworking to a minimum.





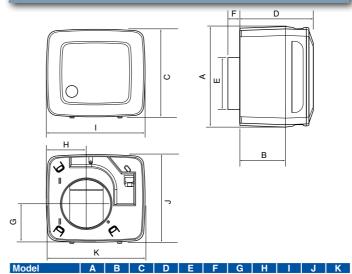
Models

Timer / SELV TTimer can be set to run on between 2 and 45 minutesHumidity Timer / SELV HTHumidity sensor can be set between 40 - 90% RH

Technical Data

| Specification | L | OOVENT eco | IMEV |
|---|-------------------------|---------------|---------------|
| Air flow m ³ /hr (trickle / boost) | 25 / 55 | 33 / 55 | 59 / 110 |
| Air flow l/sec (trickle / boost) | 7 / 15 | 9 / 15 | 16/31 |
| Fan type | Centrifugal | | |
| Controls | Timer / Humidity Timer | | |
| Sound Pressure dB(A)@3m | 25 / 46 25 / 46 28 / 46 | | |
| Power watts | 2.8 / 8.9 | 3/8.9 | 2.8 / 12 |
| Amps | 3 | | |
| Specific Fan Power (SFP) | 0.40 / 0.59 | 0.32 / 0.59 | 0.17 / 0.40 |
| Building Regulations ADF | | Yes | |
| Duct diameter (mm) | | 100 | |
| Voltage | 100/240v-50/60Hz | | |
| Rating | IPX5 | | |
| Weight (kg) | | 1,0 | |
| Dimensions (H x W x D) mm | | 167 x 187 x 1 | 38 |
| Part No. | 72684308 | B (T) 7 | 2684311 (HT) |
| | 72684312 (| SELV) 72 | 684313 (SELV) |

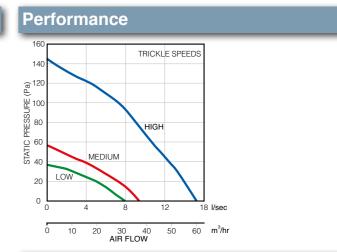
Dimensions (mm)



LOOVENT eco 167 85.5 167 138.5 99 22 74.5 75 187 162.6182.6







SAP Appendix Q Performance

| Unit configuration | Location | Flow rate | Specification fan power (W/I/s) |
|--------------------|----------|----------------|------------------------------------|
| In room 0.5m | Kitchen | 13.3 l/sec | 0.18 |
| | Wet room | 7 or 9.3 l/sec | 0.31 |
| Through wall | Kitchen | 16.9 l/sec | 0.19 |
| | Wet room | 10.0 l/sec | 0.33 |

Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

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Key Features

- Proven centrifugal fan
- Flow Rate up to 111 m³/hr
- Surface or recessed mounted
- Compact design smallest 30 l/sec fan in class
- Well proven, centrifugal, filterless technology
- Integral magnetic anti-backdraught flap
- Thermally protected motor
- IPX4 rating
- TÜV approved
- Complies with Building Regulations
- 3 year warranty



Loovent

Highly reliable and powerful fan in a modular design for ease of installation and maintenance.

Loovent centrifugal fans are perfect where longer duct runs are required as they are powerful enough to overcome pressure loss. All Loovents are designed to provide extraction levels that comply with the latest Building Regulations.

The Loovent fan offers an adjustable timer overrun control, ensuring efficient ventilation, which can be used with 100mm ducting. It provide the ideal solution for removing damp moist air, odours and airborne pollutants from en-suites, bathrooms and utility rooms.

The new LOOVENT eco range offers a full range of functionality including SAP Appendix Q approved dMEV versions.





Models

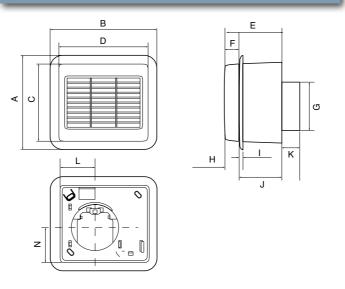
Timer

Remote switch with run on timer adjustable between 5 and 45 minutes

Technical Data

| Specification | Loovent TM 01 |
|-----------------------------|-------------------|
| Air flow m ³ /hr | 111 |
| Air flow l/sec | 31 |
| Fan type | Centrifugal |
| Controls | Timer |
| Mounting | Surface / Recess |
| Mounting | Wall / Ceiling |
| Sound Pressure dB(A)@3m | 58 |
| Power watts | 30 |
| Amps | 2 |
| Building Regulations ADF | Yes |
| Duct diameter (mm) | 100 |
| Voltage | 230v / 1ph / 50Hz |
| Rating | IPX4 |
| Material finish | ABS |
| Weight (kg) | 1.5 |
| Dimensions (H x W x D) mm | 162 x 181 x 112 |
| Part No. | 71766401 |

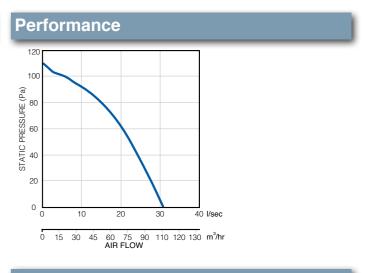
Dimensions (mm)











Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

Roomvent

Bathroom and utility room ventilation

| AIRFLOW | | | |
|---------|---|---|--|
| | | | |
| - | | - | |
| - | - | | |
| | | | |

Key Features

- Powerful centrifugal fan
- Flow rate up to 173 m³/hr
- Easy to fit airbrick size case
- Fixing pack supplied including bezel
- Recess or surface mounted to a wall or ceiling (bezel supplied)
- Integral magnetic backdraught flap
- Thermally protected motor
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty



Roomvent

Highly reliable and powerful centrifugal fan in a modular design for ease of installation and maintenance. The Roomvent is designed to provide extraction levels that comply with the latest Building Regulations.

Operated by adjustable timer, via a light or optional door switch. The Roomvent range comprises a selection of high performance fans for higher performance ventilation.

They are the ideal solution for removing damp moist air, odours and airborne pollutants from larger rooms. The motor, fan and plug-in timer are on a separate chassis for easy installation.





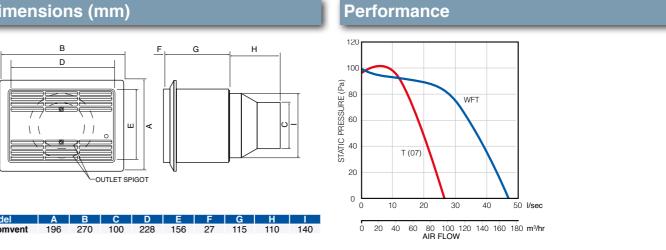
Models

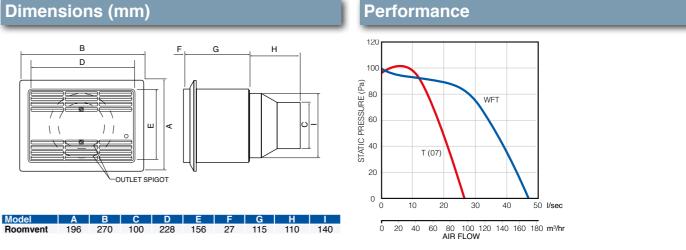
Timer Remote Switch with timer which can be set to run on between 3 and 50 minutes

Wall Fan Timer Fan with timer to run on between 3 and 50 minutes

Technical Data

| Specification | Roomvent T (07) | Roomvent WFT |
|-------------------------------------|-------------------|-------------------|
| Air flow m ³ /hr / l/sec | 97 / 27 | 173 / 48 |
| Fan type | Centrifugal | Centrifugal |
| Controls | Timer | Timer |
| Mounting | Wall / Ceiling | Wall / Ceiling |
| Sound pressure dB(A)@3m | 50 | 60 |
| Power watts | 50 | 50 |
| Amps | 2 | 2 |
| Building Regulations ADF | Yes | Yes |
| Duct diameter (mm) | 100 | 100 |
| Voltage | 230v / 1ph / 50Hz | 230v / 1ph / 50Hz |
| Rating | IPX4 | IPX4 |
| Material finish | ABS | ABS |
| Weight (kg) | 2.15 | 3.10 |
| Dimensions (H x W x D) mm | 156 x 228 x 252 | 156 x 228 x 252 |
| Part No. | 71616301 | 71616501 |









Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.



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Supervent range

Highly reliable and powerful centrifugal fan in a modular design for ease of installation and maintenance. The Supervent is designed to provide extraction levels that comply with the latest Building Regulations.

Supervent fans are small in size but big in performance. This range of powerful fans provides compact units that are ideal for almost any kitchen application. A

Key Features

- Powerful centrifugal fan
- Flow rate up to 260 m³/hr
- Two speed versions available
- Recess or surface mounted into a wall or ceiling (bezel supplied)
- Window fitting with optional window kit
- Easy to clean, integral, re-usable grease filter
- Thermally protected motor
- Easy to fit with 100mm outlet
- Demco approved
- Integral magnetic backdraught flap
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty

centrifugal fan that is simple to install and exceptionally versatile, delivering 150mm fan performance levels through 100mm ducting. These are the ideal solution for removing damp moist air, odours and airborne pollutants from kitchens.

The washable, built-in grease filter protects the motor in kitchen applications.



Models

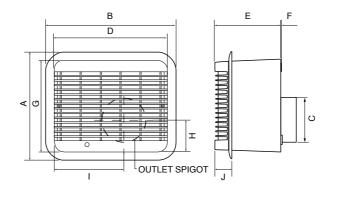
| 2 Speed Basic | Manual control by remote switch | |
|--------------------|---|--|
| Timer | Timer can be set to run on between 5 and 30 minutes Speed adjustment possible on the unit | |
| Lumidity Dull Cord | Liumidity concernediustable between 40 and 00% | |

Humidity Pull Cord Humidity sensor adjustable between 40 and 90% RH with pull cord override

Technical Data

| Specification | Supervent SV6 |
|---------------------------|--------------------------|
| Air flow m³/hr | 68 / 245* |
| Air flow l/sec | 19 / 68 |
| Fan type | Centrifugal |
| Controls | 2 Speed / Basic |
| Mounting | Wall/ Ceiling / Two Room |
| Sound Pressure dB(A)@3m | 38 / 59 |
| Power watts | 20 / 90 |
| Amps | 2 |
| Building Regulations ADF | Yes |
| Duct diameter (mm) | 100 |
| Voltage | 230v / 1ph / 50Hz |
| Rating | IPX4 |
| Material finish | ABS |
| Weight (kg) | 2.90 |
| Dimensions (H x W x D) mm | 200 x 250 x 143 |
| Part No. | 71908801 |

Dimensions (mm)

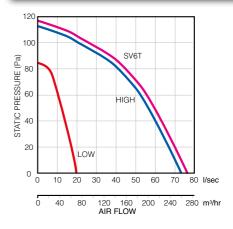






| Supervent SV6T | Supervent SV6HP |
|---------------------------|--------------------------------------|
| 260 | 68 / 245 ¹⁰⁴ |
| 72 | 19 / 68 |
| Centrifugal | Centrifugal |
| Timer | Humidity / Pull Cord |
| Wall / Ceiling / Two Room | Wall / Ceiling / Two Room |
| 59 | 38 / 59 |
| 20 / 90 | 20 / 90 |
| 2 | 2 |
| Yes | Yes |
| 100 | 100 |
| 230v / 1ph / 50Hz | 230v / 1ph / 50Hz |
| IPX4 | IPX4 |
| ABS | ABS |
| 2.90 | 2.90 |
| 200 x 250 x 143 | 200 x 250 x 143 |
| 72357001 | 71939302 |
| | * Single speed selectable +Two speed |

Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

Aventa In-Line

Bathroom, en-suite, utility room and kitchen ventilation





Aventa In-Line range

The Aventa range provides compact, quiet and powerful remote mounted ventilation for ducted installations. Available in high performance, two speed versions they are less bulky than larger in-line centrifugal fans and can be installed in loft spaces or service shafts for remote extraction.

With high flow / high pressure development characteristics they can be used with flexible ducting and flat duct systems to ensure compliance with Building

Key Features

- In-line mixed flow fans
- Flow rate up to 280 m³/hr
- Designed for ducted installations
- High pressure, low noise
- Compact and quiet in operation
- Two speed (normal and boost)
- Adjustable overrun timer version
- Access to monitor and impeller without dismantling ductwork
- Low watt motor from 21w
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty

Regulations guidance ensuring installed performance and extraction conditions are met.

Combining two Aventa fans allows for even more powerful operation. Mounting in parallel (left hand image on facing page) doubles the air flow, whilst two fans in series (right hand image on facing page) leads to a doubling of the air pressure for longer duct runs.





Applications

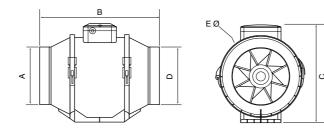
Basic Basic remote switching

Timer Timer can be set to run on between 2 and 30 minutes

Technical Data

| Specification | Aventa 100B | Aventa 100T | Aventa 125B | Aventa 125T |
|------------------------------|-------------------|-------------------|-------------------|---------------------------|
| Air flow m ³ /hr* | 145 / 187 | 145 / 187 | 220 / 280 | 220 / 280 |
| Air flow l/sec* | 40 / 52 | 40 / 52 | 66 / 88 | 66 / 88 |
| Fan type | Mixed Flow | Mixed Flow | Mixed Flow | Mixed Flow |
| Controls | Basic | Timer | Basic | Timer |
| Mounting | In-Line | In-Line | In-Line | In-Line |
| Sound Pressure dB(A)@3m | 27 / 36 | 27 / 36 | 28 / 37 | 28/37 |
| Power watts | 21 / 33 | 21 / 33 | 23 / 37 | 23/37 |
| Amps | 0.11 / 0.21 | 0.11 / 0.21 | 0.18 / 0.27 | 0.18 / 0.27 |
| Building Regulations ADF | Yes | Yes | Yes | Yes |
| Duct diameter (mm) | 100 | 100 | 125 | 125 |
| Voltage | 230v / 1ph / 50Hz |
| Rating | IPX4 | IPX4 | IPX4 | IPX4 |
| Material finish | ABS | ABS | ABS | ABS |
| Weight (kg) | 1.5 | 1.5 | 1.5 | 1.5 |
| Dimensions (H x W x D) mm | 190 x 246 x 126 | 190 x 246 x 126 | 190 x 246 x 136 | 190 x 246 x 136 |
| Part No. | 9041085 | 9041086 | 9041087 | 9041088 |
| | | | | * Air flow at free discha |

Dimensions (mm)



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|---|--|---|
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| - | | - |

| Model | А | В | С | D | E |
|-------|-----|-----|-----|-----|-----|
| AV100 | 96 | 246 | 190 | 126 | 167 |
| AV125 | 123 | 246 | 190 | 136 | 167 |

Double the flow mount in parallel Double the pressure - mount in series

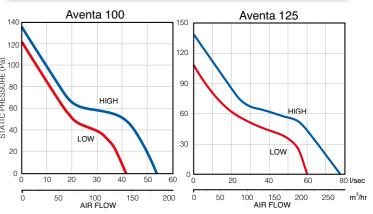








Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

Aventa Shower Kit

Shower ventilation





Aventa Shower Kit

The Aventa range provides compact, quiet and powerful remote mounted ventilation for ducted installations.

Available in high performance, two speed versions they are less bulky than larger in-line centrifugal fans and can be installed in loft spaces or service shafts for remote extraction. Key Features

- In-line mixed flow fan
- Flow rate up to 280 m³/hr
- Designed for ducted installations
- High pressure, low noise
- Compact and quiet in operation
- Two speed (normal and boost)
- Adjustable overrun timer version
- Access to motor and impeller without dismantling ductwork
- Low watt motor from 25w
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty

With high flow/high pressure development characteristics they are ideal for the longer duct runs. The kit comes with 6m flexible ducting which can be cut to go either side of the fan. This kit meets latest building regulations.



ALWAYS PULL FLEXIBLE DUCTING TAUGHT TO ENSURE INSTALLED PERFORMANCE AIR FLOW.





Applications

Timer Can be set to run on between 2 and 30 minutes

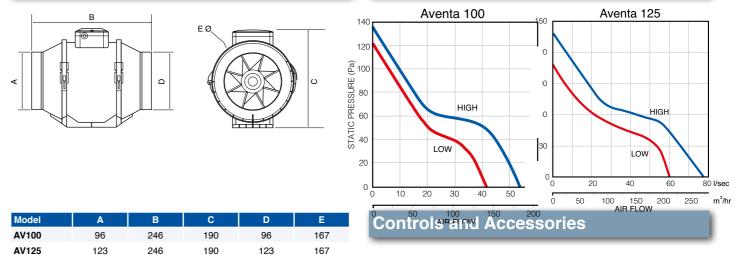
Contents of Kit

| 9041407 | AVT 100T, 6m flex duct, ties, extract valve, external grille |
|---------|---|
| 9041408 | AVT 100T, 6m flex duct, ties, halogen light, chrome and white grilles and external grille |
| 9041406 | AVT 125T, 6m flex duct, ties, extract valve, external grille |

Technical Data

| Specification | Aventa 100T Shower Kit |
|---------------------------|------------------------|
| Air flow m³/hr* | 145 / 187 |
| Air flow l/sec* | 40 / 52 |
| Fan type | Mixed Flow |
| Controls | Timer |
| Mounting | In-Line |
| Sound pressure dB(A)@3m | 27 / 36 |
| Power watts | 21 / 33 |
| Amps | 0.11 / 0.21 |
| Building Regulations ADF | Yes |
| Duct diameter (mm) | 100 |
| Voltage | 230v / 1ph / 50Hz |
| Rating | IPX4 |
| Material finish | ABS |
| Weight (kg) | 1.5 |
| Dimensions (H x W x D) mm | 190 x 246 x 126 |
| Part No. | 9041407 |
| | |

Dimensions (mm)









| Aventa 100T Shower Kit with Light | Aventa 125T Shower Kit |
|-----------------------------------|------------------------------|
| 145 / 187 | 220 / 280 |
| 40 / 52 | 66 / 88 |
| Mixed Flow | Mixed Flow |
| Timer | Timer |
| In-Line | In-Line |
| 27 / 36 | 28 / 37 |
| 21 / 33 | 23 / 37 |
| 0.11 / 0.21 | 0.18 / 0.27 |
| Yes | Yes |
| 100 | 125 |
| 230v / 1ph / 50Hz | 230v / 1ph / 50Hz |
| IPX4 | IPX4 |
| ABS | ABS |
| 1.5 | 1.5 |
| 190 x 246 x 126 | 190 x 246 x 136 |
| 9041408 | 9041406 |
| | * Air flow at free discharge |

Performance

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

See accessories section from page 209 for more details.

airflow.com



Commercial Fans

Why Ventilate?

AIRFLOW'S extensive range of extract fans are not just for domestic dwellings. Their outstanding performance, ease of installation and aesthetic appeal ensures that they can efficiently complement virtually any installation and help comply with the Building Regulations for non-domestic installations.

Refer to the CIBSE guidelines for recommended air changes per hour in non-domestic installations - see page 22.

Aventa Silent

In-Line fans can be used in the ceiling void to ventilate areas that require a ducted application.

The perfect choice for ventilation where a ducted solution is required. As the fan is mounted in the ceiling void, noise levels are kept to a minimum in the room.

Aventa Turbo

In-Line fans which use centrifugal fan technology offering increased pressure performance for larger spaces and commercial applications. The noise level is not an issue as the fan is located in the ceiling void above the area being ventilated.

<section-header><section-header><complex-block><text><text><section-header><section-header>

airflow.com

Aventa In-Line

Light commercial ventilation





Aventa In-Line range

The Aventa range of in-line fans provides a quiet, powerful and compact remote duct mounted ventilation solution. Units are available in high performance two speed versions. Less bulky than larger in-line centrifugal fans means flexibility of installation. Remote loft space or service shaft location etc is easily achieved.

With high flow/high pressure development characteristics they can be used with flexible ducting and flat duct

Key Features

- In-Line mixed flow fan
- Flow rate up to 520 m³/hr
- Designed for ducted installations
- High pressure, low noise
- Compact and quiet in operation
- Two speed (normal and boost)
- Adjustable overrun timer version
- Access to motor and impeller without dismantling ductwork
- Low watt motor 30w
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty

systems to ensure compliance with Building Regulations guidance ensuring installed performance and extraction conditions are met.

Combining two Aventa fans allows for even more powerful operation. Mounting in parallel (left hand image on facing page) doubles the air flow, whilst two fans in series (right hand image on facing page) leads to a doubling of the air pressure for longer duct runs.





Models

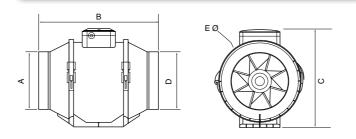
 Basic
 Basic remote switching

 Timer
 Timer can be set to run on between 2 and 30 minutes

Technical Data

| Specification | Aventa 150B | Aventa 150T |
|-----------------------------|-------------------|-------------------|
| Air flow m ³ /hr | 405 / 520 | 405 / 520 |
| Air flow l/sec | 112 / 144 | 112 / 144 |
| Fan type | Mixed Flow | Mixed Flow |
| Controls | Basic | Timer |
| Mounting | In-Line | In-Line |
| Sound Pressure dB(A)@3m | 33 / 44 | 33 / 44 |
| Power watts | 30 / 60 | 30 / 60 |
| Amps | 0.17 / 0.27 | 0.17 / 0.27 |
| Building Regulations ADF | Yes | Yes |
| Duct diameter (mm) | 150 | 150 |
| Voltage | 230v / 1ph / 50Hz | 230v / 1ph / 50Hz |
| Rating | IPX4 | IPX4 |
| Material finish | ABS | ABS |
| Weight (kg) | 2.65 | 2.65 |
| Dimensions (H x W x D) mm | 250 x 295 x 185 | 251 x 295 x 185 |
| Part No. | 9041089 | 9041090 |
| | | |

Dimensions (mm)



| Model | Α | В | С | D | E |
|-------|-----|-----|-----|-----|-----|
| AV150 | 146 | 295 | 250 | 146 | 223 |





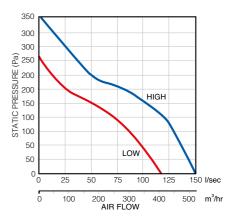
Double the flow - mount in parallel

Double the pressure - mount in series





Performance



Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

Aventa Silent

Domestic and light commercial facilities



Key Features

- In-Line mixed flow fan
- High performance characteristics powerful air flow (up to 1020 m³/hr) and high pressure
- Sound insulated casing ensures quiet operation
- Compatible with ducting 100 200mm dia
- Energy efficient 2 speed motors
- IPX4 rating
- Complies with Building Regulations
- 2 year warranty

Aventa Silent

The durable external casing is made of polymer coated steel. The inner casing perforation let's sound waves pass through the holes and fall at a specific angle to the sound absorbing layer. The casing is internally heat and sound insulated with a 50mm mineral layer and the conic impeller with special blade profiling increases air flow speed and provides higher pressure.

The diffuser, specially profiled impeller and directing vanes at the outlet from the fan casing distribute air flow in such a way as to attain the best combination of performance and pressure at low noise levels.

The fans can be mounted at any place or angle within the ductwork. Several fans can be installed in parallel in the same system to achieve a higher air capacity or in series to achieve higher pressure.

Recommended as a component of an air handling systems for commercial and industrial premises where noise levels need to be kept to a minimum, for example, libraries, conference rooms, educational institutions and crèches.

blymer coated sound waves ic angle to the nally heat and r and the conic eases air flow The fans can be mounted the ductwork. Several fans the same system to achie series to achieve higher pro-Recommended as a cosystems for commercial a noise levels need to be ke

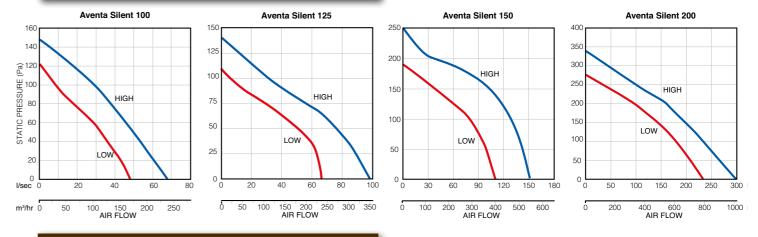
Models

Basic Control by optional switch (switch not included)

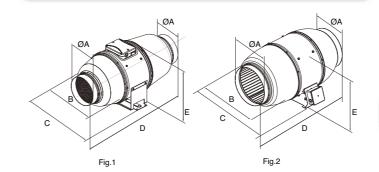
Technical Data

| Specification | Aventa Silent AVS100 | Aventa Silent AVS125 | Aventa Silent AVS150 | Aventa Silent AVS200 |
|---------------------------|----------------------|----------------------|----------------------|----------------------|
| Air flow m³/hr | 170 / 240 | 230 / 340 | 405 / 555 | 810 / 1020 |
| Air flow l/sec | 47 / 67 | 64 / 94 | 112 / 154 | 225 / 283 |
| Fan type | Mixed Flow | Mixed Flow | Mixed Flow | Mixed Flow |
| Controls | Basic | Basic | Basic | Basic |
| Mounting | In-Line | In-Line | In-Line | In-Line |
| Sound Pressure dB(A)@3m | 24 / 29 | 23 / 28 | 26 / 33 | 31 / 36 |
| Power watts | 24 / 26 | 25 / 30 | 45 / 52 | 78 / 110 |
| Amps | 0.10 / 0.11 | 0.11 / 0.13 | 0.20 / 0.23 | 0.35 / 0.49 |
| Building Regulations ADF | Yes | Yes | Yes | Yes |
| Duct diameter (mm) | 100 | 125 | 150 | 200 |
| Voltage | 230v / 1ph / 50Hz |
| Rating | IPX4 | IPX4 | IPX4 | IPX4 |
| Material finish | Polymer Coated Steel | Polymer Coated Steel | Polymer Coated Steel | Polymer Coated Steel |
| Weight (kg) | 4.6 | 4.6 | 6.1 | 8 |
| Dimensions (H x W x D) mm | 237 x 505 x 243 | 237 x 474 x 243 | 260 x 580 x 274 | 295 x 550 x 386 |
| Part No. | 90000358 | 90000359 | 90000360 | 90000361 |

Performance



Dimensions (mm)







| Model | ØA | В | С | D | E | Figure no |
|--------|-----|-----|-----|-----|-----|-----------|
| AVS100 | 98 | 215 | 243 | 505 | 237 | 1 |
| AVS125 | 123 | 215 | 243 | 474 | 237 | 1 |
| AVS150 | 147 | 247 | 274 | 580 | 260 | 1 |
| AVS200 | 198 | 293 | 386 | 550 | 295 | 2 |

Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.

Aventa Turbo

Domestic and light commercial facilities





Key Features

- In-Line centrifugal fan
- Flow rates up to 1325 m³/hr
- Designed for ventilation of medium and large size facilities
- Horizontal or vertical mounting
- Supply or extract air
- High strength plastic body
- Higher pressure capability for longer ducts
- External rotor motor with ball-bearings with thermal protection
- Complete with mounting bracket
- Balanced impeller
- IPX4 rating
- Complies with Building Regulations
- 3 year warranty

Aventa Turbo

Highly reliable and powerful fan in a modular design for ease of installation and maintenance. The Aventa Turbo series are designed to provide ventilation levels that comply with the latest Building Regulations. Works particularly well against higher system pressure.

Operated by basic switching (switch not supplied), these fans can be installed in loft spaces or service shafts for remote extraction with minimal room noise. The extensive range of Aventa Turbo fans provide compact, quiet and powerful remote mounted ventilation for ducted installations. Fans can be mounted vertically, horizontally or at an inclined angle for versatility of installation.





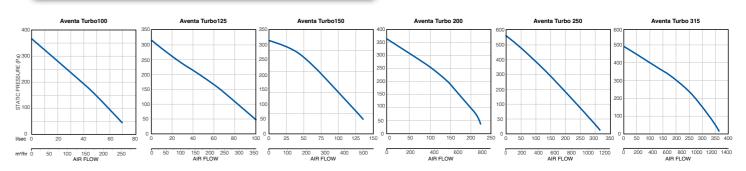
Model

Basic Control by basic switching (switch not included)

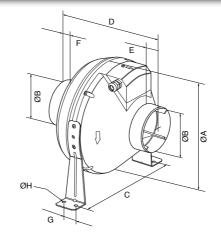
Technical Data

| Specification | Aventa Turbo 100B | Aventa Turbo 125B | Aventa Turbo 150B | Aventa Turbo 200B | Aventa Turbo 250B | Aventa Turbo 315B |
|-------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Air flow m ³ /hr / l/sec | 250 / 69 | 355 / 98 | 460 / 127 | 780 / 216 | 1080 / 300 | 1340 / 372 |
| Fan type | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal | Centrifugal |
| Controls | Basic | Basic | Basic | Basic | Basic | Basic |
| Mounting | In-Line | In-Line | In-Line | In-Line | In-Line | In-Line |
| Sound Pressure dB(A)@3m | 46 | 46 | 46 | 48 | 50 | 50 |
| Power watts | 80 | 79 | 80 | 107 | 173 | 200 |
| Amps | 0.34 | 0.34 | 0.35 | 0.47 | 0.76 | 0.88 |
| Building Regulations ADF | Yes | Yes | Yes | Yes | Yes | Yes |
| Duct diameter (mm) | 100 | 125 | 150 | 200 | 250 | 315 |
| Voltage | 230v / 1ph / 50Hz |
| Rating | IPX4 | IPX4 | IPX4 | IPX4 | IPX4 | IPX4 |
| Material finish | Plastic | Plastic | Plastic | Plastic | Plastic | Plastic |
| Weight (kg) | 2.15 | 2.2 | 2.4 | 3.0 | 4.3 | 4.8 |
| Dimensions (H x W x D) mm | 250 x 270 x 230 | 250 x 270 x 220 | 300 x 310 x 286 | 340 x 354 x 276 | 340 x 354 x 265 | 400 x 414 x 276 |
| Part No. | 9041360 | 9041361 | 9041362 | 9041363 | 9041364 | 9041365 |

Performance



Dimensions (mm)



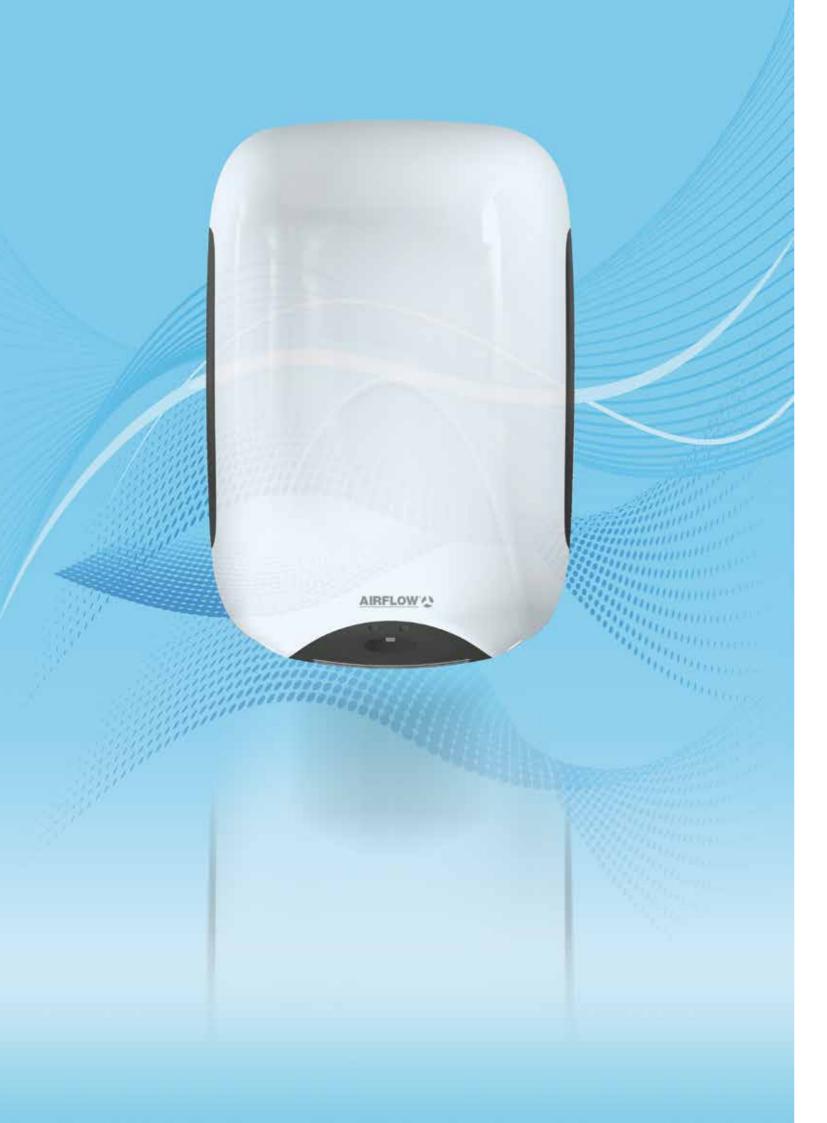




| Model | А | В | С | D | Е | F | G | Н | Dimensions |
|----------|-----|-----|-----|-----|----|----|----|---|-------------|
| AVT 100B | 100 | 250 | 270 | 230 | 30 | 27 | 30 | 6 | 250x270x230 |
| AVT 125B | 125 | 250 | 270 | 220 | 30 | 27 | 30 | 6 | 250x270x230 |
| AVT 150B | 150 | 300 | 310 | 286 | 30 | 30 | 30 | 6 | 300x310x286 |
| AVT 200B | 200 | 340 | 354 | 276 | 30 | 30 | 40 | 6 | 340x354x276 |
| AVT 250B | 250 | 340 | 354 | 265 | 30 | 30 | 40 | 6 | 340x354x265 |
| AVT 315B | 315 | 400 | 414 | 276 | 40 | 55 | 40 | 6 | 400x414x276 |

Controls and Accessories

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.



Hand Dryers

Why ecoDRY?

Airflow Developments Limited have recently re-entered the Hygiene Products market segment with a range of "eco – friendly" hand dryers. The ecoDRY series are very efficient, only using a mere 2.3w per drying cycle. They are exceptionally hygienic with various protection technologies incorporated into the manufacturing process to ensure the product achieves the highest level of protection possible.

Boasting a contemporary design the ecoDRY product will blend into any washroom whilst delivering the performance you would expect of any product from the Airflow stable of products.

ecoDRY mini

ecoDRY mini hand dryers are available in white or Satin Chrome ABS plastic finishes. Being one of the smallest hand dyers on the market, they are ideal for smaller washrooms and where space is limited. They offer customers an ideal entry level product that excels in the performance/ energy consumption/ cost parameters.

ecoDRY

ecoDRY 550 hand dryers are available in white ABS plastic and Satin Die Cast Aluminium finishes making them ideal for any washroom. The exceptionally low energy consumption will keep electricity costs at a minimum and help reduce carbon emissions when comparisons are made to other forms of drying your hands.

The new ecoDRY 1100 has a heating element for those who prefer the conventional warm air drying system.

KEEP UP TO DATE



For the latest ventilation news, information, product data and application advice

CLICK CALL VISIT



ecoDRY mini For use in washrooms



Airflow are pleased to introduce one of the world's

smallest hand dryers - the ecoDRY mini. The ecoDRY

mini is ideal for washrooms where space is limited as

it only protrudes less than 10cm from the wall when

fitted. Taking a mere 20 seconds to dry one's hands,

it consumes minimal energy and boasts an excellent performance/ energy consumption/ cost ratio making it

the ideal choice for customers looking for an entry level

Hand Dryer

hand dryer.

Key Features

- ABS Plastic White or Satin Chrome
- Automatic Sensor Operated
- Air speed 200 Km/h
- Air flow 110 m³/hr/ 31 l/min
- 28,000 rpm
- 400 watt motor/ 500 watt heating element
- 20 second drying time
- Low noise level 70dB(A) at 2m
- Flow airflow outlet stream of air
- Smallest hand dryer in class less than 10cm in depth
- Optimum performance/ energy consumption/ cost ratio
- Optional HEPA filter
- CE, IP23 rating and double insulated
- Electricity Supply 220/240V 50/60Hz
- 3 Year Warranty

An optional HEPA filter protecting users from 99.997% of air bacteria is available - ensuring clean air on your hands at all times.

ecoDRY mini is another inspiring design Airflow is proud to have in their ecoDRY portfolio of hand dryers.

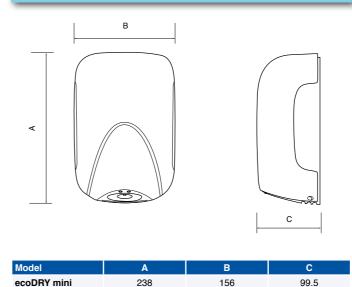
Models

White ABS plastic Chrome ABS plastic

Technical Data

| Specification | ecoDRY mini White | ecoDRY mini Satin |
|-------------------------------|--------------------|--------------------|
| Function | Automatic Sensor | Automatic Sensor |
| Material | ABS | ABS |
| Colour | White | Satin Chrome |
| Absorbtion Heating Element | 500w | 500w |
| Absorbtion Motor | 400w | 400w |
| Total Power | 900w | 900w |
| Air Speed | 200km/h | 200km/h |
| Fan speed | 28000 r.p.m. | 28000 r.p.m. |
| Air Flow Performance | 110m3/hr / 31l/sec | 110m³/hr / 31l/sec |
| Drying Time | 20 sec | 20 sec |
| Noise Level (at 2m) | 70dB(A) | 70dB(A) |
| Protection Rating | IP23 | IP23 |
| Electrical Insulation | Class II | Class II |
| Certification | CE | CE |
| Weight (Kg) | 1.2 | 1.2 |
| Dimensions (H x W x D)mm | 238 x 156 x 99.5 | 238 x 156 x 99.5 |
| Product Codes | 90000520 | 90000521 |

Dimensions













Flow Mechanism



Consumables / Spare Parts

The HEPA filter and replacement carbon brushes are available on request from your ecoDRY mini stockist or visit: airflow.com



550w - 1100w Hand Dryers

times.

Airflow are proud to present an Eco-Hygienic Drying

System - the ecoDRY has double antibacterial protection

as the internal plastic parts are treated with Agion®

Silver Antimicrobial reducing bacteria by up to 99.9%

on the dryer's surfaces. The ecoDRY is also fitted with an advanced HEPA filter protecting users from 99.997%

of air bacteria - ensuring clean air on your hands at all

ecoDRY offers superior performance in drying time at a

Key Features

- White ABS plastic / satin die cast aluminium
- Air flow 126 m³/hr/ 3500 l/min
- Automatic sensor operated
- LED "Blu" down-lighter when in use
- Air speed from 250 Km/h
- ecoDRY 550 Cool air, only 2.3w per drying cycle
- ecoDRY 1100 Warm air
- Very quick 10 -14 second drying time
- Low noise level from 68 dB(A) at 2m
- Flow air flow outlet blade / air curtain
- Compact smallest high speed hand dryer in it's category
- Revolutionary double level anti-bacteria protection system
- Agion® Silver Antimicrobial treated and HEPA filter
- IP23 rating
- 3 year warranty

ecoDRY 550 cool air unit only consumes 2.3w per drying cycle hence qualifying for Airflow's ecoair accreditation.

ecoDRY 1100 models have heating elements for those who prefer a conventional warm air drying sytem.

The product boasts a contemporary design with ergonomic features making it stand out from the competition - a drying system to aspire to for your wash room.





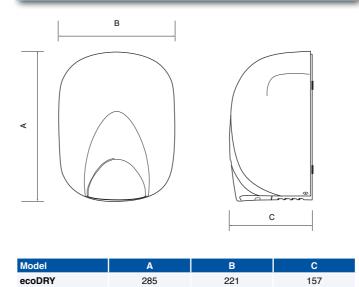
Models

White ABS plastic Satin Die cast aluminium

Technical Data

| Specification | ecoDRY 550 ABS | ecoDRY 550 Satin | e |
|-------------------------------|--------------------------------|--------------------------------|---|
| Function | Automatic Sensor | Automatic Sensor | A |
| Material | ABS | Die Cast Aluminium | |
| Colour | White | Satin Metal | |
| Absorbtion Heating Element | N/A | N/A | |
| Absorbtion Motor | 550w/ 2.3w per drying cycle | 550w/ 2.3w per drying cycle | |
| Total Power | 550w | 550w | |
| Air Speed | 250km/h | 250km/h | |
| Fan speed | 26000 r.p.m. | 26000 r.p.m. | |
| Air Flow Performance | 126m3/hr / 35l/sec | 126m3/hr / 35l/sec | 1 |
| Drying Time | 10 - 15 sec | 10 - 15 sec | |
| Noise Level (at 2m) | 68dB(A) | 68dB(A) | |
| Protection Rating | IP23 | IP23 | |
| Electrical Insulation | Class II | Class II | |
| Certification | CE | CE | |
| Weight (Kg) | 3,0 | 5,0 | |
| Dimensions (H x W x D)mm | 285 x 221 x 157 | 285 x 221 x 157 | : |
| Product Codes | 90000242 | 90000243 | |

Dimensions







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| ecoDRY 1100 ABS | ecoDRY 1100 Satin | | | |
|--------------------|--------------------|--|--|--|
| | | | | |
| Automatic Sensor | Automatic Sensor | | | |
| ABS | Die Cast Aluminium | | | |
| White | Satin Metal | | | |
| 550w | 550w | | | |
| 550w | 550w | | | |
| 1100w | 1100w | | | |
| 325km/h | 325km/h | | | |
| 30000 r.p.m. | 30000 r.p.m. | | | |
| 187m³/hr / 52l/sec | 187m³/hr / 52l/sec | | | |
| 10 - 15 sec | 10 - 15 sec | | | |
| 75dB(A) | 75dB(A) | | | |
| IP23 | IP23 | | | |
| Class II | Class II | | | |
| CE | CE | | | |
| 3,0 | 5,0 | | | |
| 285 x 221 x 157 | 285 x 221 x 157 | | | |
| 90000518 | 90000519 | | | |
| | | | | |

Flow Mechanism



Flow / Blade / Air Curtain

Consumables / Spare Parts

The HEPA filter and replacement carbon brushes are available on request from your ecoDRY stockist or visit: airflow.com



Central Extraction

Why Ventilate?

Airovent mechanical extract ventilation (MEV) provides a choice of continuous, low cost extraction in new and refurbished dwellings. Conveniently centrally located in lofts and cupboards it will provide excellent, low noise extraction from a combination of the bathroom, en-suites, utility room and kitchen through easy to fit ducting.

Alternatively, consider a de-centralised solution (dMEV).

Airovent

MEV continuously extracts stale, moist air creating a generally healthier environment helping alleviate the problems of dampness and condensation benefitting both the fabric of the building and also occupant health.

dMEV

An alternative solution for continuous extraction from individual wet rooms is a decentralised mechanical ventilation (dMEV) method. Refer to iCON, iCONstant and LOOVENT eco dMEV products for futher details.

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KEEP UP TO DATE



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Key Features

- Continuous operation centrifugal fan
- Flow up to 375 m³/hr
- Helps reduce condensation and mould problems
- Low noise, long life EC motors
- Complies with Building Regulations
- Standard units have 3 x 125mm diameter extract connections
- Airflex Pro units have 6 x 75mm diameter extract connections
- All units have 1 x 125mm diameter connection on exhaust
- Low specific fan power
- SAP Appendix Q Eligible

WHV8. WHV8R. WHV8/6. WHV8R/6

Airovent WHV8 / WHV8R is designed to provide extraction levels that comply with the latest Building Regulations 2010 and is SAP Appendix Q Eligible. With three speed settings for low, medium and high speed extraction WHV8 / WHV8R provide quiet and continuous ventilation. Model WHV8R comes equipped with a remote control and built-in humidity sensor for full remote automation.

HVS10, HVS10R, HVS10/6, HVS10R/6

Airovent HVS10 is designed to provide extraction levels that comply with the latest Building Regulations 2010 and is Appendix Q Eligible. The HVS10 is an exceptionally quiet and energy efficient whole house ventilation system. It has 18 easily adjustable speed settings for comprehensive air flow control to suit the individual requirements of the dwelling. Model HVS10R comes with a remote control and built-in humidity sensor for full automation and 14 speed settings. Model HVS10/6 comes with a kit included to connect the Airflow's Airflex Pro Zero Leakage Ducting Solution.





Applications

- Wholehouse mechanical extract ventilation
- New residential properties and refurbishments
- Extracts from multiple rooms simultaneously
- Connects directly to 125mm diameter pipe and now AirflexPro 75mm diameter "Zero Leakage" SAP Appendix Q eligible ducting

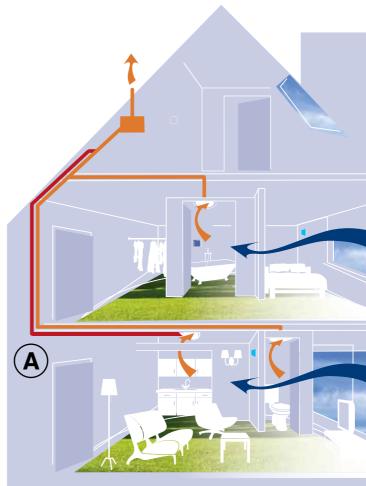


Fig A - Illustrates a typical "System 3" or central extract duct layout, focusing on the 'Best Practice' that the toilet extract is separate to, or positioned in line between the kitchen extract and the extract unit.







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Versatile Mounting Position





Floor Mounted



Wall Mounted





Central Extract Ventilation or "System 3" in the Building Regulations (ADF) is a centrally located, continuously running mechanical extract unit with ducts running to moisture producing areas or "wet rooms", such as kitchens, utility rooms, toilets and bathrooms. Natural ventilation through background ventilators replaces extracted stale moist air within the home, ensuring good indoor air quality.

As technology in fan ventilation has developed further there are now alternatives that can be offered for a System 3 solution.

dMEV

Continuously running localised fans or dMEV (decentralised mechanical extract ventilation) fans as they are known, may be utilised in place of a centrally running mechanical extract unit ducted to extract areas.

Airflow's tried and tested iCON. LOOVENT eco dMEV and the new iCONstant dMEV fulfil these applications perfectly.

iConstant dMEV



Refer to pages 74-77





Refer to pages 56-61

LOOVENT eco dMEV



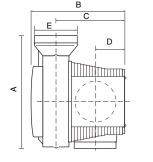
Refer to pages 80-81

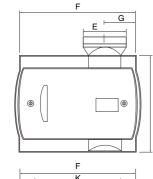
Technical Data

| Part No. | Model | Low air flow (m³/hr) | Mid air flow (m³/hr) | High air flow (m³/hr) | Power watts | Supply |
|----------|----------|-------------------------|-------------------------|--------------------------|-------------|----------------------|
| 72649401 | WHV8 | 120 | 205 | 335 | 13/40/73 | 230 / V / 1Ph / 50Hz |
| 72649501 | WHV8R | 120 | 205 | 335 | 13/40/73 | 230 / V / 1Ph / 50Hz |
| 90000362 | WHV8/6 | 120 | 205 | 335 | 13/40/73 | 230 / V / 1Ph / 50Hz |
| 90000363 | WHV8R/6 | 120 | 205 | 335 | 13/40/73 | 230 / V / 1Ph / 50Hz |
| 72649601 | HVS10 | 85 | 248 | 375 | 06/26/81 | 230 / V / 1Ph / 50Hz |
| 72649701 | HVS10R | 110 | 200 | 375 | 06/12/20 | 230 / V / 1Ph / 50Hz |
| 90000343 | HVS10/6 | 85 | 248 | 375 | 06/26/81 | 230 / V / 1Ph / 50Hz |
| 90000364 | HVS10R/6 | 110 | 200 | 375 | 06/12/20 | 230 / V / 1Ph / 50Hz |

Dimensions (mm)

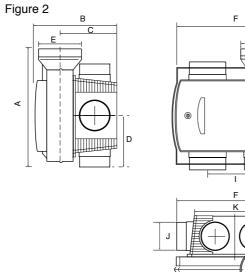
Airovent WHV8, WHV8R, HVS10, HVS10R Figure 1





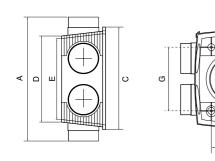
Airovent WHV8/6, WHV8R/6, HVS10/6, HVS10R/6

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A | B | C | D | E | F | G | H | I | J | K | L 330 275 205 88 124 340 82 280 275 166 252 112 Figure 1

Rear box dimensions for WHV8/6, WHV8R/6, HVS10/6, HVS10R/6



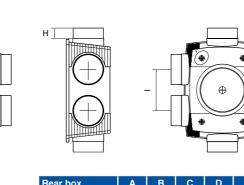


Figure 2

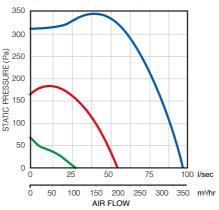


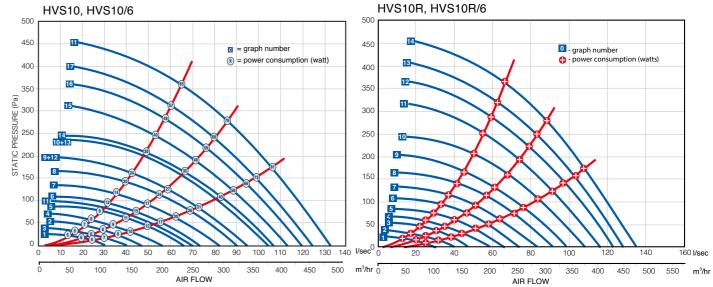
A B C D E F G H I J K L

330 245 136 148 124 340 82 280 120 150 252 112

Performance

WHV8, WHV8R, WHV8/6, WHV8R/6





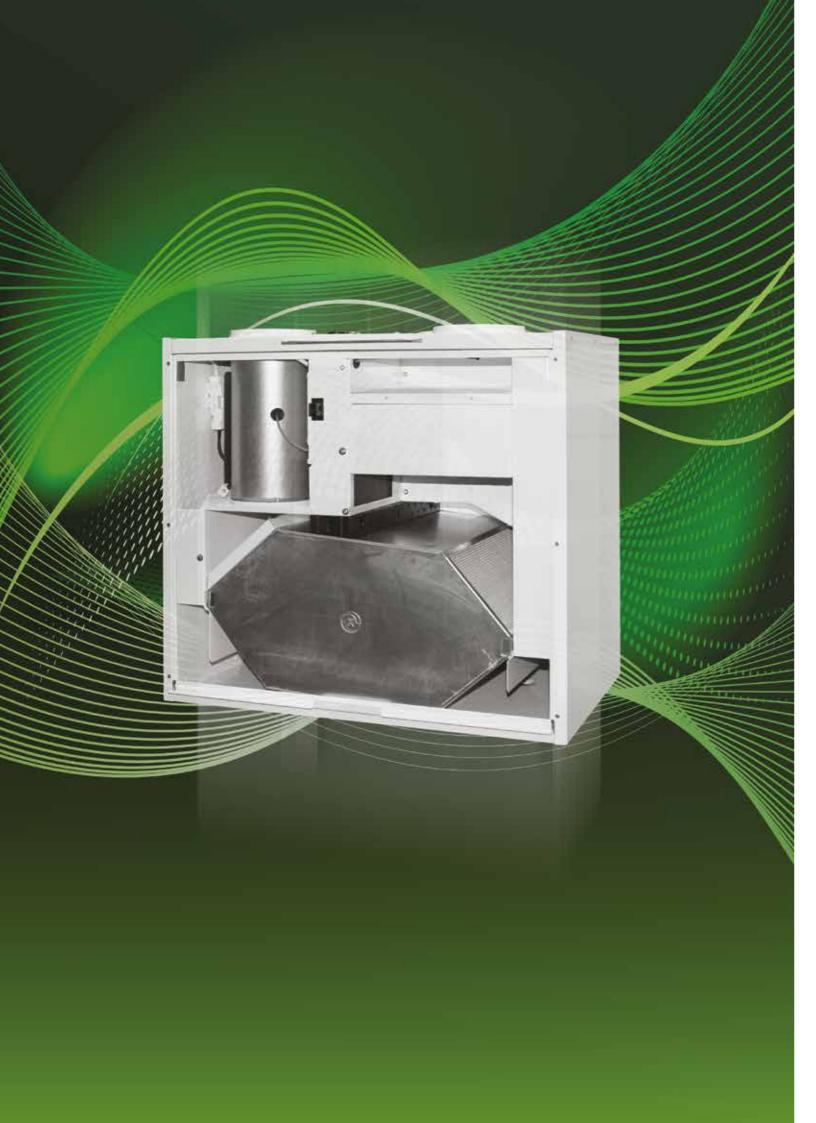
HVS10, HVS10/6

| | Position | Airflow (m³/h) | (PA) | | Position | Airflow (m³/h) | (PA) |
|-----|----------|----------------|------|------|------------|----------------------------|--------------------|
| 1. | Low | 85 | 10 | * 1. | Low | 85 | 10 |
| 2. | Low | 127 | 21 | 2. | Low | 110 | 15 |
| 3. | Middle | 95 | 12 | 3. | Middle | 127 | 21 |
| 4. | Middle | 142 | 25 | * 4. | Middle | 150 | 34 |
| 5. | Middle | 170 | 45 | 5. | Middle | 170 | 45 |
| 6. | Middle | 200 | 50 | 6. | Middle | 200 | 50 |
| 7. | Middle | 225 | 65 | * 7. | High | 225 | 65 |
| 8. | Middle | 248 | 75 | 8. | High | 248 | 75 |
| 9. | Middle | 255 | 85 | 9. | High | 270 | 85 |
| 10. | Middle | 270 | 92 | 10. | High | 290 | 110 |
| 11. | High | 195 | 48 | 11. | High | 320 | 130 |
| 12. | High | 255 | 85 | 12. | High | 335 | 140 |
| 13. | High | 270 | 92 | 13. | High | 350 | 150 |
| 14. | High | 290 | 110 | 14. | High | 375 | 175 |
| 15. | High | 320 | 130 | | | | |
| 16. | High | 335 | 140 | Co | ntrols and | Accessories | |
| 17. | High | 350 | 150 | | | | |
| 18. | High | 375 | 175 | A | | ice including flowible and | inial altration of |



HVS10R, HVS10R/6

A range of accessories including flexible and rigid ducting kits, controls, switches and grilles are available.



Ventilation with Heat Recovery

A human being usually consumes about one kilogram of food and two litres of water each day - but at least 15,000 litres of air. Of this, up to 90% may consist of indoor air.

An effective ventilation system within a dwelling will protect the building fabric and occupants against potentially harmful condensation, mould growth and other airborne pollutants that are present in today's dwellings.

Duplexvent Residential

- Duplexvent ventilation units with heat recovery for single room and wholehouse applications.
- Providing solutions for top or side entry, cooker-hood and false ceiling installations the units deliver an excellent thermal efficiency and incorporate a range of control options such as manual, digital and touch-screen panel.
- Available with 100% bypass, triple filter and built-in frost and / or post-heater.
- Internet connectivity options.

Duplexvent Commercial

- Duplexvent ventilation units with heat recovery for light commercial and industrial applications.
- Used for comfort ventilation, warm-air heating and cooling of dwellings the units achieve the highest thermal efficiency (up to 95%) and were the first Passive House Institute certified Commercial MVHR units in the UK.

Extra benefits include low energy, low noise EC fans, internet connection with smart phone application, BMS connection (ModBus, KNX, BACnet), automatic frost protection, built-in heating/cooling coils, air circulation and automatic 100% bypass.





Why Heat Recovery Ventilation?

Increased air permeability

With ever increasing energy costs the need to conserve heat and power is leading to higher levels of insulation and air tightness in residential dwellings and commercial buildings.

The resulting poor indoor climate can lead to health problems for occupants and long term damaging effects to the fabric of a building.

A condition now known as Toxic Home Syndrome.

The lack of effective ventilation within a well sealed environment increases the prevalence of airborne contaminants, odours and smells which together with high levels of humidity and condensation all add to an unhealthy environment.

If left unchecked the development of dampness leads to mould growth and the spread of mites which can increase the likelihood of headaches, allergies and the development of asthma in children.

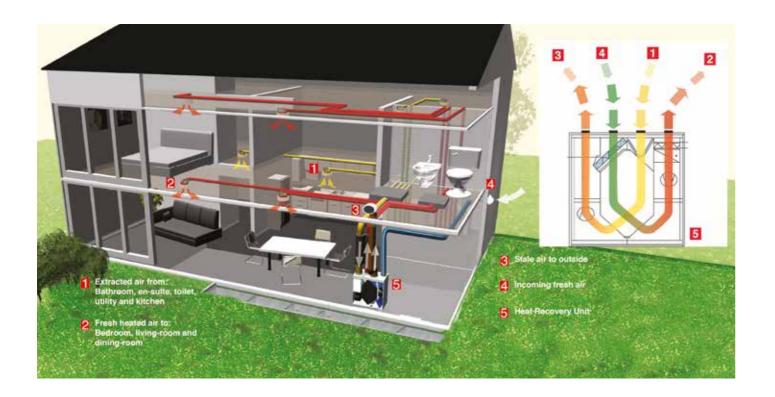
Fresh, filtered air is the answer

In a healthy home thousands of litres of fresh air is needed everyday to compensate for the moisture generated by each individual person, and also through cooking, washing and bathing.

Duplexvent provides continuous mechanical ventilation with heat recovery for the supply of controlled, fresh, filtered air while extracting potentially harmful, unwanted moisture and airborne pollutants.

It helps to save energy too by re-claiming waste heat from extracted air that would otherwise be lost and returning it via the incoming fresh air into the dwelling.

By adding back warmed, fresh air the traditional heating system will run for shorter periods of time, this will give tangible benefits in reducing energy consumption.



Creating a Healthier Environment

What is Heat Recovery?

Heat recovery is a process of continuously preheating incoming cool supply air by warming it with the outgoing exhaust air.

Warm air is not simply exhausted but transfers most of its heat to supply air in a highly efficient heat recovery exchanger. At no time do the airstreams mix as the heat radiates through the plates of the exchanger.

Extract valves in toilets and wet room areas, such as the What is Heat Recovery Efficiency? bathroom, en-suite, utility and kitchen allow a constant or demand oriented air flow volume to be extracted, matched Heat recovery efficiency is the utilising of waste heat to the users' individual needs or room demands. Much of to warm fresh incoming air. the heat of the extracted air is retained by the exchanger and transferred to the incoming fresh outdoor air.

Generally speaking efficiency above 80% is considered excellent.

The heat recovery efficiency for DUPLEXVENT units can be over 90% (the efficiency depends on the air velocity, the size of the heat exchanger and the indoor humidity level).

The heat taken from the extracted air is used to warm the The heat recovery exchanger is fitted directly in the fresh filtered air in the exchanger and then flows through ventilation unit. This allows use of heat recovery in all ducting to termination points such as air valves or air inlets building types such as flats, apartments, family houses into the living rooms and bedrooms. By undercutting doors and residential accommodation. and fitting transfer grilles fresh air circulation is ensured throughout the dwelling.

Larger units can be installed in commercial buildings, swimming pools, retail and industrial buildings.

Duplexvent units also incorporate a "By-Pass" mechanism so that in summer supply air is not warmed unnecessarily.

Heat recovery exchangers can be used even in air-conditioned buildings where during the summer season it serves as cold recovery. Incoming warm air is cooled by air-conditioned exhaust air.

Fresh Air for a Healthy Environment

For the maintenance of the building fabric and for a healthy indoor climate, controlled mechanical ventilation is essential.

Energy savings are achieved by improved insulating measures and by the use of heat recovery. Carbon emissions in the dwelling are also reduced with the contribution of heat recovery. Just as important is that there is a healthy and comfortable climate in highly insulated buildings. Research proves that people living, working or studying in inadequately ventilated buildings suffer from more ailments such as headaches and allergies.



On average, humans spend 90% of their lives in closed buildings. Therefore, it is of prime importance to provide healthier indoor air, free from odours, high humidity and airborne pollutants.

Extract Air

Stale air is contaminated with humidity, toxins and smells extracted from the kitchen, bathroom and toilet.

Supply Air

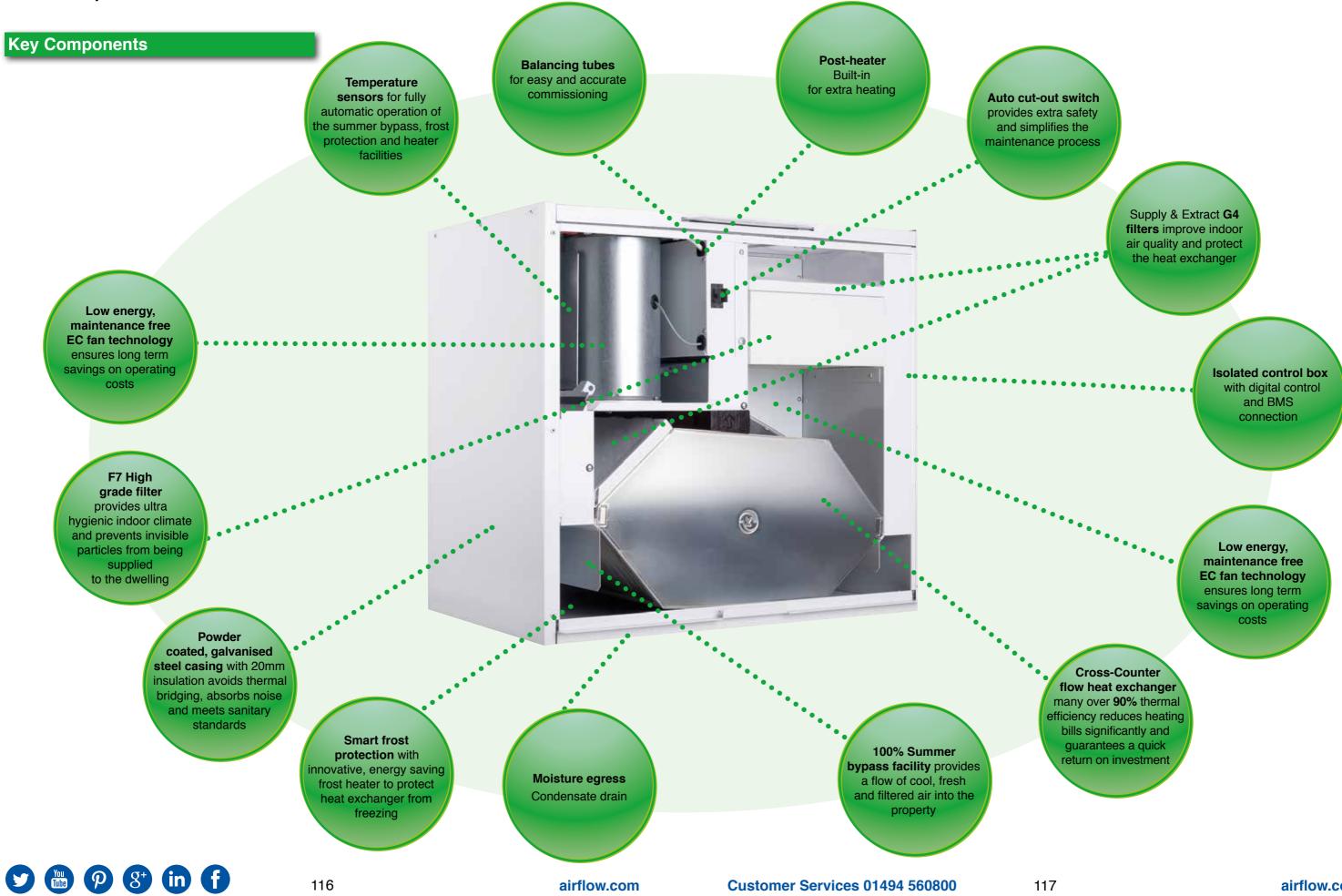
Fresh air is fed directly from outside into the ventilation system through a filter.

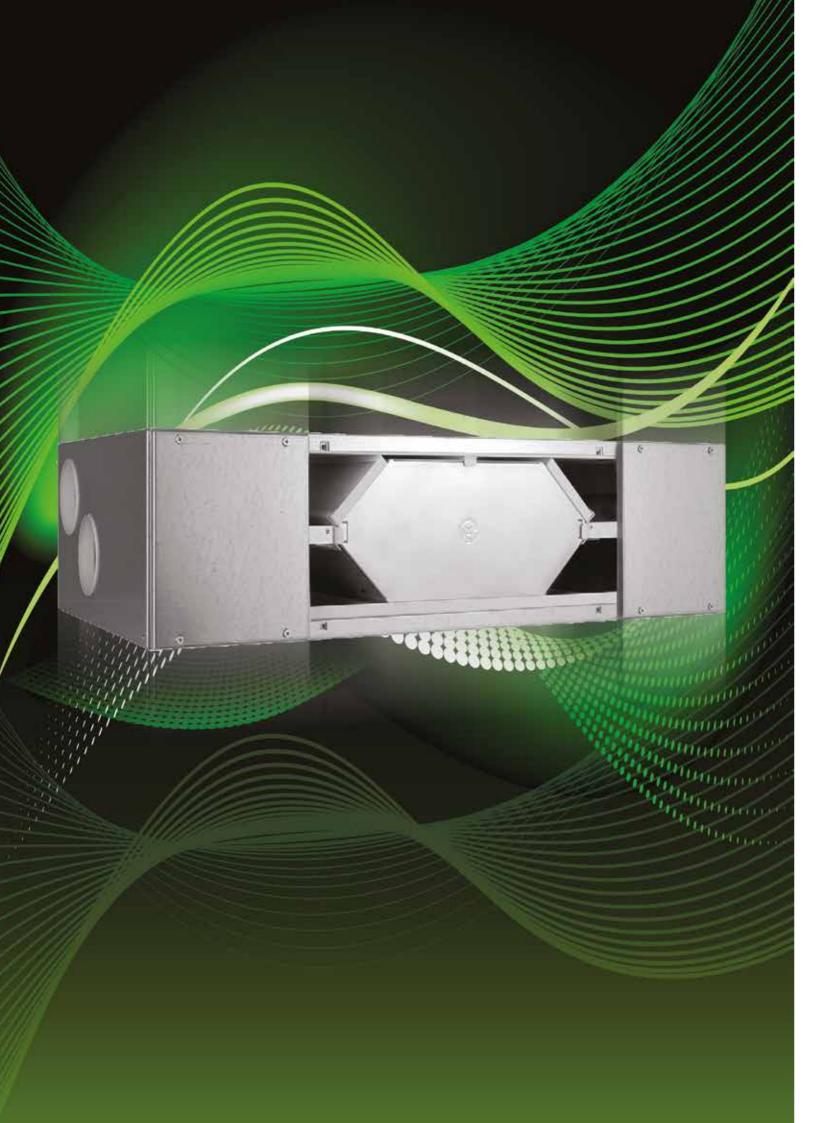
Duplexvent

- Meets Building Regulations, Approved Document F, System 4
- Saves energy by reducing heating costs
- Extracts airborne pollutants that can cause allergies and asthma
- Supplies warmed, filtered air to living spaces
- Removes condensation and humidity from wet rooms
- Reduces carbon dioxide levels that can cause headaches and drowsiness
- Clears odours, tobacco smoke and cooking smells
- Eliminates dampness and mould growth
- Helps reduce the dwellings carbon footprint (DER)
- SAP-APPENDIX Q eligible and Passive House approved models

Duplexvent Professional

Heat Recovery Ventilation





Ventilation with Heat Recovery

Residential

The indoor climate is of the utmost importance Whatever the situation, Duplexvent Mechanical as most of us spend the greater part of our Ventilation with Heat Recovery solutions can lives indoors. To ensure comfort and a sense play a significant role as they help create a healthier living environment whilst saving of well-being, the air we breathe should be clean, and also be at the right temperature valuable energy. and humidity level.

Duplexvent Basic Line

A range of compact, entry level mechanical ventilation A range of Passive House Institute certified heat recovery units with heat recovery designed for social housing, units designed for private and social family houses which private sector apartment blocks and terraced houses. The combine high performance with premium quality. Available units provide high efficiency, low power consumption and with unique triple filter and digital control, these units low noise balanced ventilation solutions which help meet ensure air comfort with advanced control functions such current Building Regulations. as automatic summer bypass and the heater assisted smart frost protection.

Duplexvent Interactive Line

A range of internet enabled, mechanical ventilation units with heat recovery for remote monitoring and control in residential applications. They are designed for comfortable and healthy ventilation in both private and social dwellings such as low energy and passive family houses, flats and high rise apartments.



Duplexvent Professional Line

Duplexvent UNO DV40

Single Room Unit – Up to 150 m³/hr air volume



Key Features

- For use in single rooms up to 60 m²*
- Fully balanced ventilation with simultaneous supply and extract air
- Easy to install through the wall (no central ducting)
- Over 90% thermal efficiency
- Silent operation 30-38 dB(A)
- Built-in electric post-heater
- Automatic frost protection
- Three speed digital / wireless control
- Boost with timer function
- Built-in G4 filters with maintenance indicator
- 3 year warranty⁺

Duplexvent UNO DV40

The Duplexvent UNO DV40 is a single room heat recovery unit designed to provide balanced ventilation for social and commercial premises plus residential properties. It is ideal for retro-fitting into existing buildings as the unit can be installed easily through the wall that does not involve any central ducting saving on installation time and system cost.

Unlike all the other single room heat recovery units on the market, the Duplexvent UNO DV40 is equipped with two fans and a plastic counter-flow heat exchanger which deliver balanced supply and extract air ventilation at all times with a heat recovery efficiency exceeding 90%.

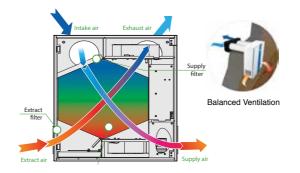
The unit has a metal polymer coated casing finished in a mirror polished stainless steel. The 10mm synthetic rubber insulation provides sound insulation and avoids thermal bridging.

The automatic frost protection prevents condensate freezing in cold periods whereas two G4 filters clean the indoor air and protect the internal components of the unit. In addition, the built-in post-heater warms the supply air to a comfortable level if needed.

Having the low energy EC fans the unit consumes as little as 9 watts and comply with the ErP 2015 standards.



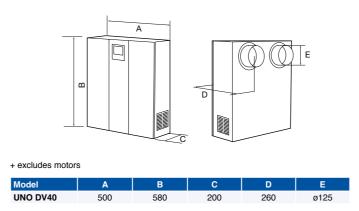




Technical Data

| Specification | Duplexvent UNO DV40 |
|------------------------------------|----------------------------|
| Max. Air Flow m³/hr / l/sec @ 0 Pa | 150 / 42 |
| Thermal efficiency | Over 90% |
| Heat exchanger | Counterflow (Plastic) |
| Fans | EC |
| Frost protection | Reducing supply air |
| Controls | 3-Speed (digital/wireless) |
| Mounting | Wall |
| Sound level @ 3m (dB(A)) | 30 - 38 |
| Duct diameter (mm) | 2 x 125 |
| Electrical supply | 230v / 1ph / 50Hz |
| Max. power consumption | 40w |
| Filter class | 2 x G4 |
| Electric post-heater | 350w |
| Protection class | IP22 |
| Casing insulation (mm) | 10 |
| Weight (kg) | 20 |
| Dimensions (L x D x H) mm | 500 x 200 x 580 |
| Part No. | 90000400 |

Dimensions







Controls

The Duplexvent UNO DV40 is equipped with a digital display which is located on the front cover plus a wireless controller allowing adjustments from anywhere within the room. Speeds 1, 2 and 3 produce an air capacity of 60, 105 and 150 m³/hr respectively. Additional functions on the control panel include:

- Extra heating of supply air
- Separate fan control
- Boost activation timer adjustable between 20 and 60 minutes
- Weekly ventilation programming
- Filter replacement and condensation drain pan level indicator





Digital controller Wireless controller * Guidance only. Dependant upon system pressure.

Quick Installation



Duplexvent DV72

Basic Line Top Entry - Up to 280 m³/hr air volume



Key Features

- For use in small and medium sized dwellings up to 125 m^{2*}
- Extracts up to 235 m³/hr at 100 Pa
- Over 90% thermal efficiency
- Thermal summer by-pass
- Energy efficient EC fans ensure low SFP
- Fits inside a 600mm kitchen cupboard
- In-built frost protection
- Ceiling suspended version available (DV72CS)
- Independantly adjustable fans
- SAP-Appendix Q eligible
- Complies with Building Regulations
- 1 year warranty

Duplexvent DV72

Duplexvent DV72 is a high performance heat recovery unit which provides a cost-effective solution for residential dwellings

This MVHR unit is equipped with an easily removable polypropylene, ultra-high efficiency heat exchanger which transfers more than 90% of the warmth from the outgoing waste airstream into the incoming fresh air.

A thermal by-pass helps to avoid dwelling overheating in summer.

Thanks to its extremely compact size the Duplexvent DV72 can be mounted in a standard kitchen cupboard or on the wall vertically which provides a space-saving solution especially for small and medium size dwellings.

Our SAP Appendix Q eligible DV72 and AIRFLEX PRO ducting system create a perfect solution with highly efficient heat recovery and Zero Leakage air transfer which provide ventilation levels that meet the latest Building Regulations 2010 (Approved Document F).



SAP Appendix Q

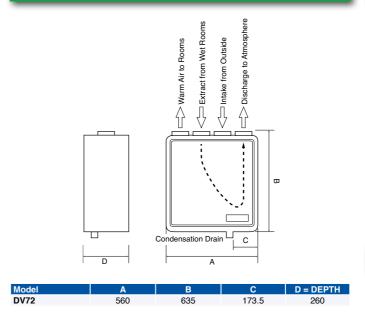
Tested by the BRE (Building Research Establishment) and eligible for the SAP Appendix Q

| DV72 | SFP | Efficiency |
|---------------|------------|------------|
| K+1 Wet room | 0.60 W/l/s | 91% |
| K+2 Wet rooms | 0.68 W/l/s | 90% |
| K+3 Wet rooms | 0.84 W/l/s | 89% |
| K+4 Wet rooms | 0.99 W/l/s | 88% |

Technical Data

| Specification | Duplexvent DV72 R | Duplexvent DV72CS L |
|---|-----------------------|-----------------------|
| Max. air flow m ³ /hr / l/sec @ 0 Pa | 280 / 78 | 280 / 78 |
| Air flow m ³ /hr / l/sec @ 100 Pa | 235 / 65 | 235 / 65 |
| Thermal efficiency | Over 90% | Over 90% |
| Heat exchanger | Counterflow (Plastic) | Counterflow (Plastic) |
| Fans | EC | EC |
| Controls (normal and boost) | 2-Speed | 2-Speed |
| Mounting | Wall | Wall |
| Sound level @ 3m (dB(A)) | 28 - 45 | 28 - 45 |
| Duct diameter (mm) | 4 x 125 | 4 x 125 |
| Condensate discharge (mm) | 22 | 2 x 22 |
| Electrical supply | 230v / 1ph / 50Hz | 230v / 1ph / 50Hz |
| Max. power consumption | 150w | 150w |
| Filter class | 2 x G3 | 2 x G3 |
| Thermal by-pass | Yes | Yes |
| Electric post-heater | 1200w (optional) | 1200w (optional) |
| Electric frost protection | Yes | Yes |
| Protection class | IPX2 | IPX2 |
| Weight (kg) | 14 | 14 |
| Dimensions (L x H x D) mm | 560 x 635 x 260 | 560 x 635 x 260 |
| Part No. | 90000556 | 90000557 |

Dimensions







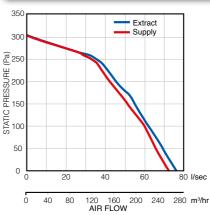
DV72 installed in a kitchen cupboard

Controls

A separately mounting commissioning switch is supplied with the unit. Two, 100% user adjustable speed levels can be set on installation. In addition both fans can be independently adjusted to ensure a balanced system upon commissioning. Also accepts boost function switches (not supplied). An automatic thermal summer by-pass will activate when the supply air temperature reaches 25°C to prevent dwelling overheating via heat exchanger.



Performance



* Guidance only. Dependant upon system pressure.

Accessories

See switches/accessories pages 209-239 for more details.

Duplexvent BV400

Basic Line Top Entry - Up to 475 m³/hr air volume



Key Features

- For use in medium and large sized dwellings up to 230 m^{2*}
- Air volume up to 425 m³/hr @ 100 Pa
- Low energy EC fans with 0.45 W/l/s SFP
- Over 90% thermal efficiency
- Automatic summer bypass and frost protection
- Filter monitoring via pressure sensors
- Easy installation via interchangeable spigots
- Tamperproof operation for extra safety
- Data logging capability
- SAP Appendix Q eligible
- Complies with Building Regulations
- 3 year warranty*

Duplexvent BV400

Duplexvent BV400 is one of the latest additions to Airflow's Duplexvent Basic Line which provide balanced ventilation with high efficiency heat recovery, low power consumption and quiet operation to modern residential dwellings.

Designed for price-sensitive large-scale projects to help meet current Building Regulations this MVHR unit also complies with the Energy Saving Trust Best Practice.

Equipped with the new generation Radical Range fans, the unit achieves very low SFP levels thus providing house builders and developers with reduction in Dwelling Emission Rates (DER).



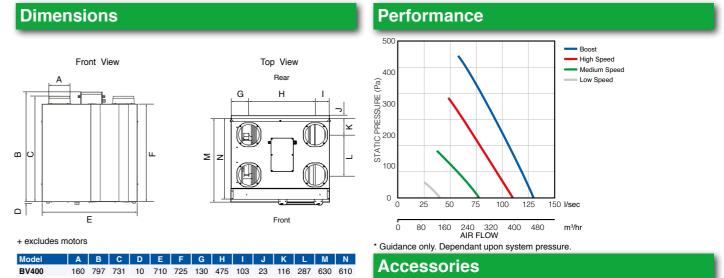
SAP Appendix Q

Tested by the BRE (Building Research Establishment) and eligible for the SAP Appendix Q

| BV400 | SFP | Efficiency |
|---------------|------------|------------|
| K+1 Wet room | 0.49 W/l/s | 93% |
| K+2 Wet rooms | 0.45 W/l/s | 92% |
| K+3 Wet rooms | 0.48 W/l/s | 92% |
| K+4 Wet rooms | 0.53 W/l/s | 92% |
| K+5 Wet rooms | 0.59 W/l/s | 91% |
| K+6 Wet rooms | 0.69 W/l/s | 90% |
| K+7 Wet rooms | 0.83 W/l/s | 90% |

Technical Data

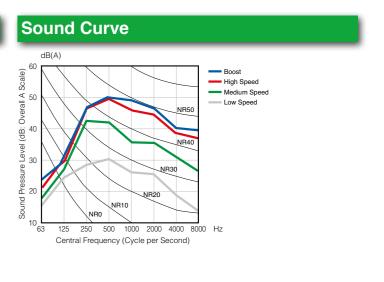
| Specification | Duplexvent BV400 |
|---|-----------------------|
| Max. air flow m ³ /hr / l/sec @ 0 Pa | 475 / 132 |
| Air flow m³/hr / l/sec @ 100 Pa | 425 / 118 |
| Thermal efficiency | Over 90% |
| Heat exchanger | Counterflow (Plastic) |
| Fans | EC |
| Summer bypass damper | Automatic |
| Frost protection | Reducing supply air |
| Controls | 3-Speed + Boost |
| Mounting | Floor / Wall |
| Sound Level @ 3m (dB(A)) | 23 - 41 |
| Duct diameter (mm) | 4 x 160 |
| Condensate discharge | 22mm |
| Electrical supply | 230v / 1ph / 50Hz |
| Max. power consumption | 180w |
| Filter class | 2 x G4 (F7 optional) |
| Electric frost heater | 1000w (optional) |
| Electric post-heater | 1000w (optional) |
| Protection class | IP43 |
| Weight (kg) | 41 |
| Dimensions (L x H x D) mm | 710 x 725 x 630 |
| Part No. | 90000312 |
| | |







Easy maintenance through the filter access door



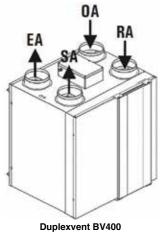
See switches/accessories pages 209-239 for more details.

Duplexvent BV400

Basic Line Top Entry - Up to 475 m³/hr air volume

Versatile Unit Configuration

The unit is supplied as a right handed version as standard. Thanks to the universal condensate drain the unit can easily be changed to the left hand configuration by swapping the front and rear covers.



EA – Exhaust air to atmosphere
SA – Supply air to dwelling
OA – Outdoor air from atmosphere
RA – Return air from dwelling

Duplexvent BV400 (right handed - standard delivery)

Simple Control

Simple control incorporates the following features:

- 3 speed control, low and high speeds are 100% adjustable via potentiometers, medium speed is calculated automatically.
- Boost function increases air flow when needed. Manual boost with run-on timer / automatic boost with delay timer.
- Childproof protection locks / unlocks the buttons providing extra safety.
- Filter maintenance reminder via counter clock (standard) / via pressure sensor (optional).
- · Heater control for frost heater and post-heater.
- Connection to BMS via Modbus RTU (RS485).
- Self Diagnostic.
- On-demand control via humidity and PIR sensors.





Digital Control

Advanced digital control also provides:

- Optional separate fan control for ease of commissioning.
- Weekly ventilation programming allows users to pre-set the ventilation levels scheduled for different days.

Duplexvent BV400 (left handed)

Removing the front and rear covers

- Data logging capability keeps record of unit's operation.
- Optional humidity or air quaility sensors enable automatic boost control.
- Indoor temperature control based on room, extract or supply air temperature.

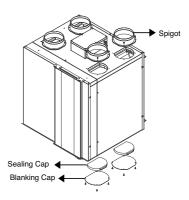


BV400 Simple vs Digital Control

| Functions | | |
|--|----|---|
| Functions | .0 | ÷ |
| Three speed control (Low - Medium - High) | v | ~ |
| Automatic bypass | ~ | ~ |
| Boost with timer | v | ~ |
| Frost protection | v | ~ |
| Frost heater control | v | ~ |
| Post-heater control | v | ~ |
| Indoor temp setting via extract / supply / room temp | | ~ |
| Separate fan control | | ~ |
| Weekly ventilation programming | | ~ |
| Data logging | | ~ |
| Filter maintenance indicator via counter clock | v | ~ |
| Filter maintenance indicator via pressure sensor | v | ~ |
| Demand control via humidity/CO _z /PIR sensors | ~ | ~ |
| Emergency shut-off (in case of fire etc.) | r | ~ |
| Self diagnostic | v | ~ |
| BMS connection (MODBUS RS485) | v | ~ |
| Built-in humidity/air quality sensor | | ~ |
| Set temperature adjustments | | ~ |
| Set timer adjustments | | ~ |
| Constant flow function | | ~ |

Spigot Relocation

The Duplexvent BV400 has a number of options regarding the position of the four entry/exit spigots. This enables more flexibility when positioning the heat recovery unit and ducting. It is possible to configure the unit for bottom entry connection should space consideration for connecting duct runs necessitate it.



Duplexvent BV400 spigot relocation

Filter Maintenance Indication

On the standard BV400 a counter clock is available to alert the user for maintenance at the pre-set time period.

Alternatively, an additional pressure sensor is used to monitor the real-time filter status. This provides more accurate and cost-efficient maintenance.



Filter pressure sensor connected at the bottom of the unit

Duplexvent DV250/300/400

Basic Line Side Entry - Up to 425 m³/hr air volume



Key Features

- For use in small, medium and large sized dwellings up to 220 m²*
- 3 models (side entry) up to 400 m³/hr at 100 Pa
- Compact size (280mm height) provides space saving solutions
- Over 90% thermal efficiency and low noise
- Automatic, 100% summer bypass
- Can be installed on the wall, under the ceiling or on the floor
- Light weight enables one man installation
- Simple manual switch as standard. Optional touch screen panel with advanced controls
- Compliant to ErP 2015 standards
- Complies with Building Regulations
- 2 year warranty⁺

Duplexvent DV250/300/400

The Duplexvent Basic Line DV250, DV300 and DV400 are highly efficient, side entry mechanical supply and extract ventilation units with heat recovery for an air capacity of up to 425 m3/hr.

The unit casing is made of high density EPP material which provides significant insulation, eliminates any thermal bridging.

The units include an easily removable, plastic heat exchanger which transfers warmth from the outgoing waste airstream into the incoming fresh air where its thermal efficiency exceeds 90%. At no point do the airstreams mix.

Having the latest, low energy EC fan technology, the DV250, DV300 and DV400 comply with the ErP 2015 standards and are tested by TUV laboratories.





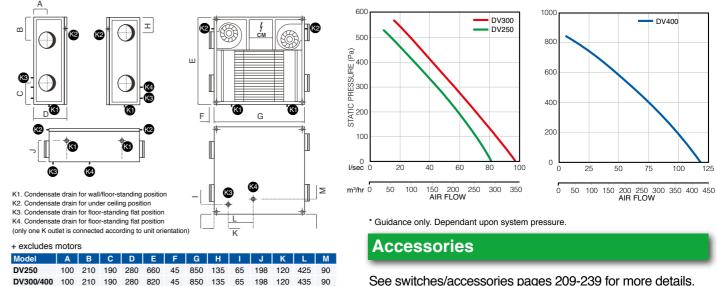
100% Automatic Bypass

The units are equipped with an automatic, 100% bypass which totally isolates the heat exchanger so that no air passes through it. This provides effective cooling in the summer season.

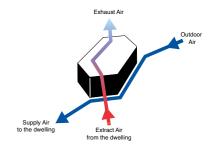
Technical Data

| Speciation | Duplexvent DV250 |
|--|--|
| Max. air flow m³/hr / l/sec @ 0 Pa | 280 / 78 |
| Air flow m ³ /hr / l/sec @ 100 Pa | 250 / 69 |
| Thermal efficiency | Over 90% |
| Heat exchanger | Counterflow (Plastic) |
| Fans | EC |
| Summer bypass damper | 100% automatic |
| Frost protection | Reducing supply air |
| Controls | Variable Speed Controller Touch screen panel (optional) |
| Mounting | Wall / Ceiling / Floor |
| Sound level @ 3m (dB(A)) | 28-40 |
| Duct diameter (mm) | 4 x 160 |
| Condensate discharge | 14mm |
| Electrical supply | 230v / 1ph / 50Hz |
| Max. power consumption | 120w |
| Filter class | 2 x G4 (optional F7) |
| Electric frost heater | 400w (optional) |
| Electric post-heater | 400w (optional) |
| Protection class | IP22 |
| Weight (kg) | 20 |
| Dimensions (L x D x H) mm | 850 x 280 x 660 |
| Part No. | 90000397 |

Dimensions







| Duplexvent DV300 | Duplexvent DV400 |
|--|--|
| • | |
| 330 / 92 | 425 / 118 |
| 300 / 83 | 400 / 111 |
| Over 90% | Over 90% |
| Counterflow (Plastic) | Counterflow (Plastic) |
| EC | EC |
| 100% automatic | 100% automatic |
| Reducing supply air | Reducing supply air |
| Variable Speed Controller Touch screen panel (optional) | Variable Speed Controller Touch screen panel (optional) |
| Wall / Ceiling / Floor | Wall / Ceiling / Floor |
| 34-42 | 36-46 |
| 4 x 160 | 4 x 160 |
| 14mm | 14mm |
| 230v / 1ph / 50Hz | 230v / 1ph / 50Hz |
| 120w | 220w |
| 2 x G4 (optional F7) | 2 x G4 (optional F7) |
| 700w (optional) | 1700w (optional) |
| 700w (optional) | 1700w (optional) |
| IP22 | IP22 |
| 21 | 21 |
| 850 x 280 x 820 | 850 x 280 x 820 |
| 90000398 | 90000399 |

Performance

See switches/accessories pages 209-239 for more details.

Duplexvent DV250/300/400

Basic Line Side Entry - Up to 425 m³/hr air volume

Mounting Positions

Unique to these side entry units is the ability to install the same unit at:

- Wall / Floor standing position
- Ceiling flat position (with inclination for drainage)
- Floor flat position (with inclination for drainage)

This provides exceptional flexibility in product specification, installation and storage.



Simple Control

Simple control incorporates the following features:

- Variable speed control 100% adjustable by the user
- Automatic boost function increases air flow when needed (via volt-free contact or 0-10V sensor output)
- Automatic frost protection reduces the supply ventilation rate for a certain period to prevent ice build-up within the heat recovery cell depending on the outside air temperature
- Automatic summer bypass provides free cooling in the summer season. Its motorised damper is triggered by the temperature sensor automatically
- Heater control for frost heater and post-heater

Touch Screen Control

Additionally, the digital control provides the following features:

- Stylish Touch Screen with easy-to-use interface
- Weekly ventilation programming allows users to pre-set the ventilation levels scheduled for different days.
- **Party / Holiday mode** to set the air volume for specific time period based on occupancy.
- Filter Maintenance reminder
- Indoor temperature control and display based on; Extract air temperature Supply air temperature





Internet Connection

The Duplexvent Basic Line side entry units can optionally be equipped with a web server that uses Modbus TCP/IP protocol to provide a connection between the ventilation unit and the internet via a standard plug and play ethernet cable.

This allows you to monitor and control the unit from a computer, laptop or smart phone via the internet or a local area network. The unit can also be monitored remotely by technical service which saves time and cost on service processes.

Heaters

The new generation PTC (Positive Temperature Coefficient) electric heater incorporates a power adjustment facility which automatically increases/decreases the power based on the air volume going through the heater hence shortens the heating response.

Also the heater has two protection thermostats and a perforated metal filter which can easily be maintained via the inspection door. This significantly increases its life span especially when the heater is installed on the incoming air side for frost protection purposes. Alternatively it can be used as post-heater to achieve the required indoor air temperature.

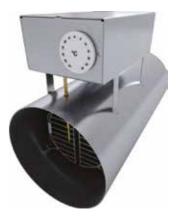
Metal Housing

To achieve better sound levels the units can optionally be covered with a metal jacket which is made of galvanised metal sheet.

This special accessory also protects the unit from external damage and extends the life span of the unit.









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Duplexvent DV90SCK

Professional Line Top Entry - Up to 330 m³/hr air volume



Key Features

- For use in medium sized dwellings up to 160 m²*
- Extract up to 306 m³/hr at 100 Pa
- Galvanised steel, double skin casing
- Cooker-hood provides separate extraction
- Triple filter design with F7 pollen filter
- Over 90% thermal efficiency and low SFP
- Manual 100% summer bypass
- New smart frost protection
- Built-in electric post-heater
- Auto cut-out switch for extra safety
- SAP-Appendix Q eligible
- Complies with Building Regulations
- 5 year warranty⁺

Duplexvent DV90SCK

The Duplexvent DV90SCK is a ventilation unit with stateof-the-art technology, designed to provide both essential ventilation and to save you money through its intelligent, cost effective and eco-friendly heat recovery system.

The unit is delivered with a stylish cooker hood which incorporates an integral fire damper providing fire safety between the hood and the MVHR unit. The unit can be integrated into a fitted kitchen design.

It also includes a grease filter which protects the MVHR unit against particles such as cooking oil extracted through the cooker hood.

Unlike all other MVHR units with cooker hood on the market, the DV90SCK recovers heat even when the separate cooker hood extract is in operation. This important feature prevents cold air draughts especially in winter and keeps your house warm at all times.





SAP Appendix Q

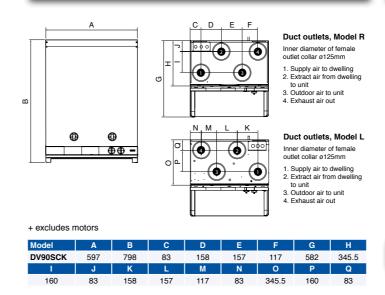
Tested by the BRE (Building Research Establishment) and eligible for the SAP Appendix Q

| DV90 | SFP | Efficiency |
|---------------|------------|------------|
| K+1 Wet room | 0.73 W/l/s | 81% |
| K+2 Wet rooms | 0.72 W/l/s | 82% |
| K+3 Wet rooms | 0.80 W/l/s | 82% |
| K+4 Wet rooms | 0.91 W/l/s | 83% |
| K+5 Wet rooms | 1.06 W/l/s | 82% |

Technical Data

| Specification | Duplexvent DV90SCK R | Duplexvent DV90SCK L |
|--|-------------------------------------|-------------------------------------|
| Max. air flow m³/hr / l/sec @ 0 Pa | 330 / 92 | 330 / 92 |
| Air flow m ³ /hr / l/sec @ 100 Pa | 306 / 85 | 306 / 85 |
| Thermal efficiency | Over 90% | Over 90% |
| leat exchanger | Counterflow (Plastic) | Counterflow (Plastic) |
| Fans | EC | EC |
| Summer bypass damper | 100% automatic | 100% automatic |
| Frost protection | Frost heater | Frost heater |
| Controls | 4-Speed - Manual (on cooker hood) | 4-Speed - Manual (on cooker hood) |
| Mounting | Wall | Wall |
| Sound Level @ 3m (dB(A)) | 24 - 45 | 24 - 45 |
| Duct diameter (mm) | 4 x 125 | 4 x 125 |
| Condensate discharge (mm) | 12 | 12 |
| Electrical supply | 230v / 1ph / 50Hz | 230v / 1ph / 50Hz |
| Max. power consumption | 182w | 182w |
| Filter class | 2 x G4 / 1 x F7 | 2 x G4 / 1 x F7 |
| Electric frost/post-heater | 900w | 900w |
| Protection class | IP34 | IP34 |
| Casing Insulation (mm) | 12 | 12 |
| Weight (kg) | 52 | 52 |
| Dimensions (L x D x H) mm | 597 x 582 x 798 (incl. cooker hood) | 597 x 582 x 798 (incl. cooker hood) |
| Part No. | 9041576 | 9041577 |
| | | |

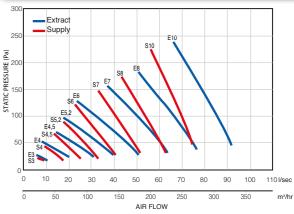
Dimensions







Performance



* Guidance only. Dependant upon system pressure

Accessories

See switches/accessories pages 209-239 for more details.

Duplexvent DV90SCK

Professional Line Top Entry - Up to 330 m³/hr air volume

The unit is made of a galvanised steel double-skin casing which is powder coated both internally and externally to meet hygiene requirements. Moreover, the 12mm thick insulation in the casing avoids any thermal bridging and significantly reduces noise levels.

The DV90SCK includes an easily removable, plastic heat exchanger which transfers warmth from the outgoing waste airstream into the incoming fresh air where its thermal efficiency exceeds 90%. At no point do the airstreams mix.

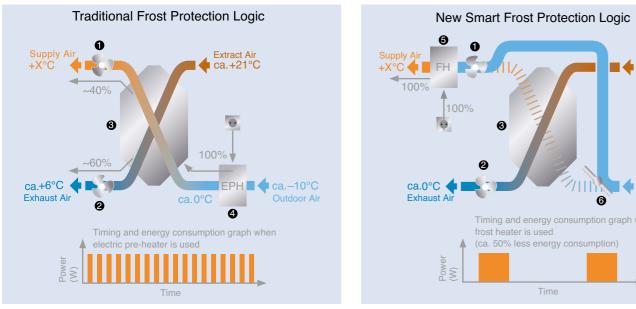
The unit includes the brand new smart frost protection facility which significantly reduces the energy consumed to protect the heat exchanger from freezing (see below for more information). Fitted with an additional electric

post-heater, the unit keeps the indoor air temperature at the required temperature level at all times hence saving energy especially during the winter period.

The DV90SCK unit is designed with a unique triple filter facility including a F7 pollen filter which provides additional protection against invisible, harmful particles and creates an ultra hygienic environment, particularly relevant for those suffering from asthma or other respiratory conditions.

Having the latest, low energy EC fan technology, the DV90SCK complies with the ErP 2015 standards. The unit comes with an outstanding 5 year warranty⁺ and is SAP Appendix Q eligible.

New Smart Frost Protection



On the traditional frost protection method, the outdoor air is pre-heated before passing through the heat exchanger. This way the unit could still provide balanced ventilation heat exchanger conditions and uses the frost heater even when the frost protection was on. However, the electric heater kicks in intermittently hence consumes more energy than needed.

| 0 | Supply a | air fan |
|---|----------|---------|
| | | |

- 2 Exhaust air fan
- 3 Heat exchanger

4 Electric pre-heater **5** Frost heater

6 Electric bypass damper

Extract Air **ca.+21°C** (Defrosting)

ca.–10°C Outdoor Air Timing and energy consumption graph when

The new Smart Frost Protection method works in a more energy efficient manner which constantly monitors the only when necessary. This significantly reduces the energy consumption and provides more heat recovery throughout the winter season.

Triple Filter Design

The majority of the MVHR units in the U.K incorporate G3 or G4 coarse filters on the extract / supply air side. These filters catch only coarse particles such as insects and leaves to protect the heat exchanger.

F7 fine filters on the other hand are highly efficient, catch invisible particles such as pollen, spore, bacterium and dust entering the lungs.

Duplexvent Professional Line units are the only MVHR units which incorporate triple filter design combining G4 course filters with the F7 fine filter. This significantly improves the indoor air quality and lowers your maintenance costs.

100% Automatic Bypass

The unit is equipped with an automatic, 100% bypass which totally isolates the heat exchanger so that no air passes through it. This provides effective cooling in the summer season.

Controls

Duplexvent Slim-Line Cooker Hood

Colour options of white or grey

Duplexvent Slim-Line cooker hoods are equipped with a handy sliding glass panel which incorporates a fluorescent lamp.

The hoods have detachable grease filters which can be easily maintained.

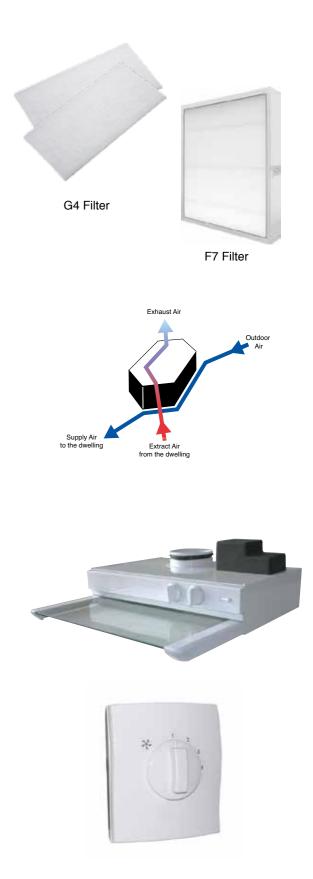
Power is adjusted via an integrated four speed switch.

Four Speed Switch

An alternative to the cooker hood control is the manually operated 4 speed switch which allows simple unit operation when required.

- Easy to install
- Manual selection of the fan speed
- 100% adjustable speed levels
- User friendly for quick and simple control.





airflow.com

Duplexvent DV96SE

Professional Line Top Entry - Up to 345 m³/hr air volume



Key Features

- For use in medium sized dwellings up to 175 m²*
- Extract up to 320 m³/hr at 100 Pa
- Galvanised steel, double skin casing
- Triple filter design with F7 pollen filter
- Over 90% thermal efficiency and low SFP
- New smart frost protection
- Built-in electric post-heater
- Automatic, 100% summer bypass
- Auto cut-out switch for extra safety
- Eight speed digital control with LCD display and BMS (LON / KNX) connection
- SAP Appendix Q eligible and PASSIVE HOUSE Institute certified
- Complies with Building Regulations
- 5 year warranty*

Duplexvent DV96SE

The Duplexvent DV96SE is a highly efficient mechanical supply and extract ventilation unit with heat recovery for an air capacity of up to 345 m³/hr. It is a wall mounted unit and is delivered complete with a wall mounting plate and condensate drain.

The unit is made of a galvanised steel double-skin casing which is powder coated both internally and externally to meet hygiene requirements.

Moreover, the 20mm thick insulation in the casing avoids any thermal bridging and significantly reduces noise levels.

The DV96SE includes an easily removable, plastic heat exchanger which transfers warmth from the outgoing waste airstream into the incoming fresh air where its thermal efficiency up to 90%. At no point do the airstreams mix.





SAP Appendix Q

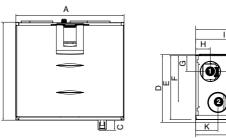
Tested by the BRE (Building Research Establishment) and eligible for the SAP Appendix Q

| DV96SE | SFP | Efficiency |
|---------------|------------|------------|
| K+1 Wet room | 0.99 W/l/s | 87% |
| K+2 Wet rooms | 0.92 W/l/s | 87% |
| K+3 Wet rooms | 0.99 W/l/s | 87% |
| K+4 Wet rooms | 1.12 W/l/s | 86% |
| K+5 Wet rooms | 1.26 W/l/s | 86% |

Technical Data

| Specification | Duplexvent DV96SE R | Duplexvent DV96SE L |
|--|-----------------------|-----------------------|
| Air flow m ³ /hr / l/sec @ 100 Pa | 324 / 90 | 324 / 90 |
| Thermal efficiency | Up to 90% | Up to 90% |
| Heat exchanger | Counterflow (Plastic) | Counterflow (Plastic) |
| Fans | EC | EC |
| Summer bypass damper | 100% automatic | 100% automatic |
| Frost protection | Frost heater | Frost heater |
| Controls | 8-Speed - Digital | 8-Speed - Digital |
| Connection to BMS | LON / KNX (optional) | LON / KNX (optional) |
| Mounting | Wall | Wall |
| Sound level @ 3m (dB(A)) | 24 - 45 | 24 - 45 |
| Duct diameter (mm) | 4 x 125 | 4 x 125 |
| Condensate discharge (mm) | 12 | 12 |
| Electrical supply | 230v / 1ph / 50Hz | 230v / 1ph / 50Hz |
| Max. power consumption | 224w | 224w |
| Filter class | 2 x G4 / 1 x F7 | 2 x G4 / 1 x F7 |
| Electric frost/post-heater | 900w | 900w |
| Protection class | IP34 | IP34 |
| Casing insulation (mm) | 20 | 20 |
| Weight (kg) | 53 | 53 |
| Dimensions (L x D x H) mm | 600 x 430 x 543 | 600 x 430 x 543 |
| Part No. | 90000393 | 90000394 |

Dimensions



Duct outlets, model R Inner diameter of female outlet collar ø 125 mm Supply air to dwelling
 Extract air from dwelling to unit 3. Exhaust air out 4. Outdoor air to unit

Duct outlets, model L Inner diameter of female outlet 1. Exhaust air out 2. Outdoor air to unit 3. Supply air to dwelling 4 Extract air from dwelling to uni

(0)

+ excludes motors







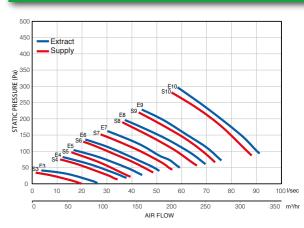
Passive House Certification

The Duplexvent DV96SE is tested and certified by the Passive House Institute based on the following criteria:

- Thermal comfort
- Effective heat recovery
- Electric power consumption
- Air tightness
- Balancing adjustability
- Sound insulation
- Indoor air quality
- Frost protection







Performance

* Guidance only. Dependant upon system pressure

Accessories

See switches/accessories pages 209-239 for more details.

Duplexvent DV96SE

Professional Line Top Entry - Up to 345 m³/hr air volume

Fitted with an additional electric post-heater, the unit keeps the indoor air temperature at the required temperature level at all times hence maintains indoor air comfort whilst saving energy during the winter period.

The DV96SE is designed with a unique triple filter facility including a F7 pollen filter which provides additional protection against invisible, harmful particles and creates an ultra hygienic environment, particularly relevant for those suffering from asthma or other respiratory conditions.

The unit includes a digital controller with LCD display which incorporates 8-speed air flow control, weekly ventilation programming, filter maintenance indicator, separate fan control for easy commissioning and the brand new smart frost protection facility which significantly reduces the energy consumed to protect the heat exchanger from freezing (see below for more information).

On-demand ventilation can be achieved by using humidity and CO₂ sensors which boost the air volume gradually based on the moisture and occupancy levels in the dwelling. It is also possible to integrate the unit into a Building Management System via the corresponding BUS converter (LON or KNX) to monitor and control unit's functions by a central control system.

Having the latest, low energy EC fan technology, the DV96SE complies with the ErP 2015 standards.

The unit comes with an outstanding 5 year warranty⁺, is SAP Appendix Q eligible, tested by TUV laboratories and also certified by the Passive House Institute.

The new Smart Frost Protection method works in a more

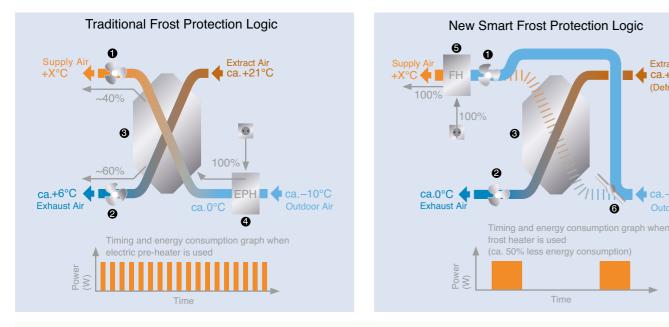
energy efficient manner which constantly monitors the

only when necessary. This significantly reduces the

energy consumption and provides more heat recovery

throughout the winter season.

New Smart Frost Protection



On the traditional frost protection method, the outdoor air is pre-heated before passing through the heat exchanger. This way the unit could still provide balanced ventilation heat exchanger conditions and uses the frost heater even when the frost protection was on. However, the electric heater kicks in intermittently hence consumes more energy than needed.

| 0 | Supply a | air fan |
|---|----------|---------|
| | | |

- 2 Exhaust air fan
- 3 Heat exchanger
- 4 Electric pre-heater **5** Frost heater
- 6 Electric bypass damper

These filters catch only coarse particles such as insects and leaves to protect the heat exchanger.

F7 fine filters on the other hand are highly efficient, catch invisible particles such as pollen, spore, bacterium and dust entering the lungs.

The majority of the MVHR units in the U.K incorporate

G3 or G4 coarse filters on the extract / supply air side.

Duplexvent Professional Line units are the only MVHR units which incorporate triple filter design combining G4 course filters with the F7 fine filter. This significantly improves the indoor air quality and lowers your maintenance costs.

100% Automatic Bypass

Triple Filter Design

The unit is equipped with an automatic, 100% bypass which totally isolates the heat exchanger so that no air passes through it. This provides effective cooling in the summer season.

Controls

Ideal indoor air quality is achieved by automatically adjusted ventilation

Duplexvent DV96SE is controlled via a 8 speed digital control providing the following features:

- 8 speed control where all speeds are 100% adjustable
- Automatic boost function with delay timer
- Filter maintenance reminder via counter clock (standard) / via pressure sensor (optional)
- Heater control for post-heater
- Connection to BMS via LON or KNX
- Self diagnostic via fault signal relay
- On-demand control via humidity and CO₂ sensors
- Separate fan control for ease of commissioning
- Weekly ventilation programming allows users to pre-set the ventilation levels scheduled for different days
- Indoor temperature control based on extract air temperature or supply air temperature
- Internet connection available



Extract Air 📕 🔶 ca.+21°C

(Defrosting)

ca.–10°C

6

Outdoor Air

139



Supply Ai

to the dw



Extract A



Duplexvent DV110SE

Professional Line Top Entry - Up to 415 m³/hr air volume



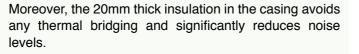
Key Features

- For use in medium sized dwellings up to 210 m²*
- Extract up to 390 m³/hr at 100 Pa
- Galvanised steel, double skin casing
- Triple filter design with F7 pollen filter
- Over 90% thermal efficiency and low SFP
- New smart frost protection heater
- Built-in electric post-heater
- Automatic, 100% summer bypass
- Auto cut-out switch for extra safety
- Eight speed digital control with LCD display and BMS (LON / KNX) connection
- SAP Appendix Q eligible and PASSIVE HOUSE Institute certified
- Complies with Building Regulations
- 5 year warranty*

Duplexvent DV110SE

The Duplexvent DV110SE is a highly efficient mechanical supply and extract ventilation unit with heat recovery for an air capacity of up to 415 m³/hr. It is a wall mounted unit and is delivered complete with a wall mounting plate and condensate drain.

The unit is made of a galvanised steel double-skin casing which is powder coated both internally and externally to meet hygiene requirements.



The DV110SE includes an easily removable, plastic heat exchanger which transfers warmth from the outgoing waste airstream into the incoming fresh air where its thermal efficiency up to 90%. At no point do the airstreams mix.



SAP Appendix Q

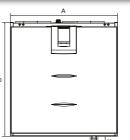
Tested by the BRE (Building Research Establishment) and eligible for the SAP Appendix Q

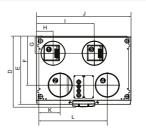
| DV110SE | SFP | Efficiency |
|---------------|------|------------|
| K+1 Wet room | 0.89 | 90% |
| K+2 Wet rooms | 0.79 | 90% |
| K+3 Wet rooms | 0.79 | 89% |
| K+4 Wet rooms | 0.83 | 89% |
| K+5 Wet rooms | 0.91 | 88% |
| K+6 Wet rooms | 1.02 | 88% |
| K+7 Wet rooms | 1.15 | 87% |

Technical Data

| Specification | Duplexvent DV110SE R | Duplexvent DV110SE L | | |
|--|-----------------------|-----------------------|--|--|
| Air flow m ³ /hr / l/sec @ 100 Pa | 414 / 115 | 414 / 115 | | |
| Thermal efficiency | Up to 90% | Up to 90% | | |
| Heat exchanger | Counterflow (Plastic) | Counterflow (Plastic) | | |
| Fans | EC | EC | | |
| Summer bypass damper | 100% automatic | 100% automatic | | |
| Frost protection | Frost heater | Frost heater | | |
| Controls | 8-Speed - Digital | 8-Speed - Digital | | |
| Connection to BMS | LON / KNX (optional) | LON / KNX (optional) | | |
| Mounting | Wall | Wall | | |
| Sound level @ 3m (dB(A)) | 26 - 47 | 26 - 47 | | |
| Duct diameter (mm) | 4 x 160 | 4 x 160 | | |
| Condensate discharge (mm) | 12 | 12 | | |
| Electrical supply | 230v / 1ph / 50Hz | 230v / 1ph / 50Hz | | |
| Max. power consumption | 238w | 238w | | |
| Filter class | 2 x G4 / 1 x F7 | 2 x G4 / 1 x F7 | | |
| Electric frost heater | 900w | 900w | | |
| Electric post-heater | 900w | 900w | | |
| Protection class | IP34 | IP34 | | |
| Casing insulation (mm) | 20 | 20 | | |
| Weight (kg) | 60 | 60 | | |
| Dimensions (L x D x H) mm | 638 x 472 x 678 | 638 x 472 x 678 | | |
| Part No. | 90000224 | 90000225 | | |

Dimensions





Duct outlets, model R Inner diameter of female outlet collar ø160mn Supply air to the dwelling
 Extract air from dwelling to unit 3. Exhaust air out 4. Outdoor air to unit

Duct outlets, model L Inner diameter of female outlet collar ø160mr 1. Exhaust air out 2. Outdoor air to unit Supply air to the dwelling
 Extract air from dwelling to unit

| + excludes m | otors | | | | | | | | | | | |
|--------------|-------|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Model | Α | В | С | D | Е | F | G | Н | 1 | J | K | L |
| DV110SE | 638 | 678 | 42 | 472 | 455 | 325 | 111 | 112 | 390 | 638 | 160 | 478 |





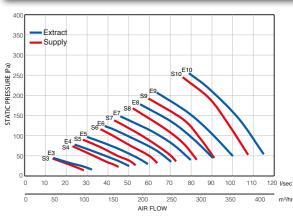
Passive House Certification

The Duplexvent DV110SE is tested and certified by the Passive House Institute based on the following criteria:

- Thermal comfort
- Effective heat recovery
- Electric power consumption
- Air tightness
- Balancing adjustability
- Sound insulation
- Indoor air quality
- Frost protection







Performance

* Guidance only. Dependant upon system pressure

Accessories

See switches/accessories pages 209-239 for more details.

Duplexvent DV110SE

Professional Line Top Entry - Up to 415 m³/hr air volume

Fitted with an additional electric post-heater, the unit keeps the indoor air temperature at the required temperature level at all times hence maintains indoor air comfort whilst saving energy during the winter period.

The DV110SE is designed with a unique triple filter facility including a F7 pollen filter which provides additional protection against invisible, harmful particles and creates an ultra hygienic environment, particularly relevant for those suffering from asthma or other respiratory conditions.

The unit includes a digital controller with LCD display which incorporates 8-speed air flow control, weekly ventilation programming, filter maintenance indicator, separate fan control for easy commissioning and the brand new smart frost protection facility which significantly reduces the energy consumed to protect the heat exchanger from freezing (see below for more information).

On-demand ventilation can be achieved by using humidity and CO_a sensors which boost the air volume gradually based on the moisture and occupancy levels in the dwelling. It is also possible to integrate the unit into a Building Management System via the corresponding BUS converter (LON or KNX) to monitor and control unit's functions by a central control system.

Having the latest, low energy EC fan technology, the DV110SE complies with the ErP 2015 standards.

The unit comes with an outstanding 5 year warranty⁺, is SAP Appendix Q eligible, tested by TUV laboratories and also certified by the Passive House Institute.

New Smart Frost Protection



On the traditional frost protection method, the outdoor air is pre-heated before passing through the heat exchanger. This way the unit could still provide balanced ventilation even when the frost protection was on. However, the electric heater kicks in intermittently hence consumes more energy than needed.

| 0 | Supply | air fan |
|---|--------|---------|
| | | |

- 2 Exhaust air fan
- 3 Heat exchanger
- 4 Electric pre-heater 6 Frost heater
- 6 Electric bypass damper

Extract Air 📕 🔷 ca.+21°C (Defrosting) Outdoor Air Timing and energy consumption graph when

The new Smart Frost Protection method works in a more energy efficient manner which constantly monitors the heat exchanger conditions and uses the frost heater only when necessary. This significantly reduces the energy consumption and provides more heat recovery throughout the winter season.

Triple Filter Design

The majority of the MVHR units in the U.K incorporate G3 or G4 coarse filters on the extract / supply air side. These filters catch only coarse particles such as insects and leaves to protect the heat exchanger.

F7 fine filters on the other hand are highly efficient, catch invisible particles such as pollen, spore, bacterium and dust entering the lungs.

Duplexvent Professional Line units are the only MVHR units which incorporate triple filter design combining G4 course filters with the F7 fine filter. This significantly improves the indoor air quality and lowers your maintenance costs.

100% Automatic Bypass

The unit is equipped with an automatic, 100% bypass which totally isolates the heat exchanger so that no air passes through it. This provides effective cooling in the summer season.

Controls

Ideal indoor air quality is achieved by automatically adjusted ventilation

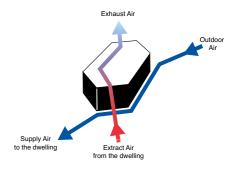
Duplexvent DV110SE is controlled via a 8 speed digital control providing the following features:

- 8 speed control where all speeds are 100% adjustable
- Automatic boost function with delay timer
- Filter maintenance reminder via counter clock (standard) / via pressure sensor (optional)
- Heater control for frost heater and post-heater
- Connection to BMS via LON or KNX
- Self diagnostic via fault signal relay
- On-demand control via humidity and CO₂ sensors
- Separate fan control for ease of commissioning
- · Weekly ventilation programming allows users to pre-set the ventilation levels scheduled for different days
- Indoor temperature control based on extract air temperature or supply air temperature
- Internet connection available





F7 Filter





airflow.com

Duplexvent DV145SE

Professional Line Top Entry - Up to 594 m³/hr air volume



Key Features

- For use in large sized dwellings up to 300 m²*
- Extract up to 570 m³/hr at 100 Pa
- Galvanised steel, double skin casing
- Triple filter design with F7 pollen filter
- Over 90% thermal efficiency and low SFP
- New smart frost protection heater
- Built-in electric post-heater
- Automatic, 100% summer bypass
- Auto cut-out switch for extra safety
- Eight speed digital control with LCD display and BMS (LON / KNX) connection
- SAP Appendix Q eligible and PASSIVE HOUSE Institute certified
- Complies with Building Regulations
- 5 year warranty*

Duplexvent DV145SE

The Duplexvent DV145SE is a highly efficient mechanical supply and extract ventilation unit with heat recovery for an air capacity of up to 594 m³/hr. It is a wall mounted unit and is delivered complete with a wall mounting plate and condensate drain.

The unit is made of a galvanised steel double-skin casing which is powder coated both internally and externally to meet hygiene requirements.



Moreover, the 20mm thick insulation in the casing avoids any thermal bridging and significantly reduces noise levels.

The DV145SE includes an easily removable, aluminium heat exchanger which transfers warmth from the outgoing waste airstream into the incoming fresh air where its thermal efficiency up to 90%. At no point do the airstreams mix.



SAP Appendix Q

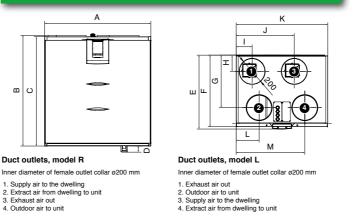
Tested by the BRE (Building Research Establishment) and eligible for the SAP Appendix Q

| DV145SE | SFP | Efficiency |
|---------------|------|------------|
| K+1 Wet room | 1.09 | 78% |
| K+2 Wet rooms | 0.94 | 80% |
| K+3 Wet rooms | 0.89 | 81% |
| K+4 Wet rooms | 0.92 | 82% |
| K+5 Wet rooms | 0.97 | 83% |
| K+6 Wet rooms | 1.04 | 83% |
| K+7 Wet rooms | 1 15 | 84% |

Technical Data

| Specification | Duplexvent DV145SE R | Duplexvent DV145SE L |
|---------------------------------|-------------------------|-------------------------|
| Air flow m3/hr / l/sec @ 100 Pa | 568 / 158 | 568 / 158 |
| Thermal efficiency | Up to 90% | Up to 90% |
| Heat exchanger | Counterflow (Aluminium) | Counterflow (Aluminium) |
| Fans | EC | EC |
| Summer bypass damper | 100% automatic | 100% automatic |
| Frost protection | Frost heater | Frost heater |
| Controls | 8-Speed - Digital | 8-Speed - Digital |
| Connection to BMS | LON / KNX (optional) | LON / KNX (optional) |
| Mounting | Wall / Floor | Wall / Floor |
| Sound level @ 3m (dB(A)) | 24 - 47 | 24 - 47 |
| Duct diameter (mm) | 4 x 200 | 4 x 200 |
| Condensate discharge (mm) | 12 | 12 |
| Electrical supply | 230v / 1ph / 50Hz | 230v / 1ph / 50Hz |
| Max. power consumption | 350w | 350w |
| Filter class | 2 x G4 / 1 x F7 | 2 x G4 / 1 x F7 |
| Electric frost heater | 900w | 900w |
| Electric post-heater | 1500w | 1500w |
| Protection class | IP34 | IP34 |
| Casing insulation (mm) | 20 | 20 |
| Weight (kg) | 88 | 88 |
| Dimensions (L x D x H) mm | 718 x 578 x 748 | 718 x 578 x 748 |
| Part No. | 90000395 | 90000396 |

Dimensions







Passive House Certification

The Duplexvent DV145SE is tested and certified by the Passive House Institute based on the following criteria:

- Thermal comfort
- Effective heat recovery
- Electric power consumption
- Air tightness
- Balancing adjustability
- Sound insulation
- Indoor air quality
- Frost protection





Accessories

See switches/accessories pages 209-239 for more details.

Duplexvent DV145SE

Professional Line Top Entry - Up to 594 m³/hr air volume

Fitted with an additional electric post-heater, the unit keeps the indoor air temperature at the required temperature level at all times hence maintains indoor air comfort whilst saving energy during the winter period.

The DV145SE is designed with a unique triple filter facility including a F7 pollen filter which provides additional protection against invisible, harmful particles and creates an ultra hygienic environment, particularly relevant for those suffering from asthma or other respiratory conditions.

The unit includes a digital controller with LCD display which incorporates 8-speed air flow control, weekly ventilation programming, filter maintenance indicator, separate fan control for easy commissioning and the brand new smart frost protection facility which significantly reduces the

On-demand ventilation can be achieved by using humidity and CO₂ sensors which boost the air volume

energy consumed to protect the heat exchanger from

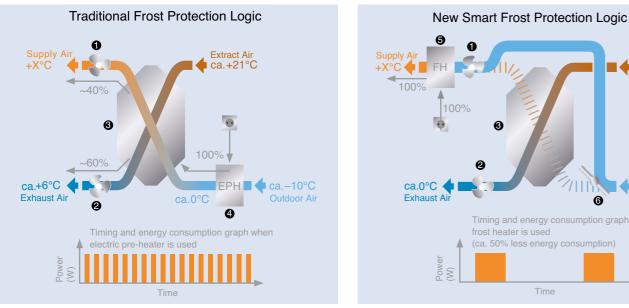
freezing (see below for more information).

gradually based on the moisture and occupancy levels in the dwelling. It is also possible to integrate the unit into a Building Management System via the corresponding BUS converter (LON or KNX) to monitor and control unit's functions by a central control system.

Having the latest, low energy EC fan technology, the DV145SE complies with the ErP 2015 standards.

The unit comes with an outstanding 5 year warranty⁺, is SAP Appendix Q eligible, tested by TUV laboratories and also certified by the Passive House Institute.

New Smart Frost Protection



On the traditional frost protection method, the outdoor air is pre-heated before passing through the heat exchanger. This way the unit could still provide balanced ventilation heat exchanger conditions and uses the frost heater even when the frost protection was on. However, the electric heater kicks in intermittently hence consumes more energy than needed.

| Supply air f | an |
|----------------------------------|----|
|----------------------------------|----|

2 Exhaust air fan

3 Heat exchanger

4 Electric pre-heater **5** Frost heater

6 Electric bypass damper

Extract Air 📕 🔷 ca.+21°C (Defrosting) **ca**.–10°C Outdoor Air 6 Timing and energy consumption graph when frost heater is used (ca. 50% less energy consumption) Time

The new Smart Frost Protection method works in a more energy efficient manner which constantly monitors the only when necessary. This significantly reduces the energy consumption and provides more heat recovery throughout the winter season.

Triple Filter Design

The majority of the MVHR units in the U.K incorporate G3 or G4 coarse filters on the extract / supply air side. These filters catch only coarse particles such as insects and leaves to protect the heat exchanger.

F7 fine filters on the other hand are highly efficient, catch invisible particles such as pollen, spore, bacterium and dust entering the lungs.

Duplexvent Professional Line units are the only MVHR units which incorporate triple filter design combining G4 course filters with the F7 fine filter. This significantly improves the indoor air quality and lowers your maintenance costs.

100% Automatic Bypass

The unit is equipped with an automatic, 100% bypass which totally isolates the heat exchanger so that no air passes through it. This provides effective cooling in the summer season.

Controls

Ideal indoor air quality is achieved by automatically adjusted ventilation

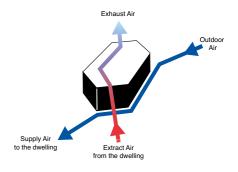
Duplexvent DV145SE is controlled via a 8 speed digital control providing the following features:

- 8 speed control where all speeds are 100% adjustable
- Automatic boost function with delay timer
- Filter maintenance reminder via counter clock (standard) / via pressure sensor (optional)
- Heater control for frost heater and post-heater
- Connection to BMS via LON or KNX
- Self diagnostic via fault signal relay
- On-demand control via humidity and CO₂ sensors
- Separate fan control for ease of commissioning
- · Weekly ventilation programming allows users to pre-set the ventilation levels scheduled for different days
- Indoor temperature control based on extract air temperature or supply air temperature
- Internet connection available





F7 Filter





airflow.com

Duplexvent DV200SE

Professional Line Top Entry - Up to 850 m³/hr air volume



Key Features

- For use in large sized dwellings up to 400 m²*
- Extract up to 790 m³/hr at 100 Pa
- Galvanised steel, double skin casing
- Triple filter design with F7 pollen filter
- Up to 90% thermal efficiency and low SFP
- Built-in electric or water post-heater
- Automatic, 100% bypass and frost protection
- Auto cut-out switch for extra safety
- Eight speed digital control with LCD display and BMS (LON / KNX) connection
- Complies with Building Regulations
- 5 year warranty⁺

Duplexvent DV200SE

With its powerful air volume capacity and high thermal efficiency the Duplexvent DV200SE is suitable for large family houses or light commercial applications.

Having the triple filter design with an F7 pollen filter, the DV200SE provides additional protection against invisible, harmful particles and creates an ultra hygienic environment.

The automatic, 100% summer bypass facility isolates the heat recovery function and helps to effectively cool the inside air during the summer months.

The unit includes an easily removable, aluminium heat exchanger and can be equipped with a built-in electric or water post-heater to increase the heat performance of the system.

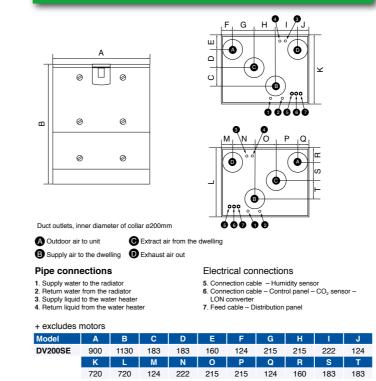




Technical Data

| Specification | Duplexvent DV200SE R | Duplexvent DV200SE L |
|---------------------------------|-------------------------|-------------------------|
| Air flow m³/hr / l/sec @ 100 Pa | 828 / 230 | 828 / 230 |
| Thermal efficiency | Up to 90% | Up to 90% |
| Heat exchanger | Counterflow (Aluminium) | Counterflow (Aluminium) |
| Fans | EC | EC |
| Summer bypass damper | 100% automatic | 100% automatic |
| Frost protection | Frost heater | Frost heater |
| Controls | 8-Speed - Digital | 8-Speed - Digital |
| Connection to BMS | LON / KNX (optional) | LON / KNX (optional) |
| Mounting | Floor | Floor |
| Sound level @ 3m (dB(A)) | 33 - 48 | 33 - 48 |
| Duct diameter (mm) | 4 x 200 | 4 x 200 |
| Condensate discharge (mm) | 12 | 12 |
| Electrical supply | 230v / 1ph / 50Hz | 230v / 1ph / 50Hz |
| Max. power consumption | 451w | 451w |
| Filter class | 2 x G4 / 1 x F7 | 2 x G4 / 1 x F7 |
| Electric frost heater | 2000w | 2000w |
| Electric post-heater | 1000w (optional) | 1000w (optional) |
| Water post-heater | 3000w (optional) | 3000w (optional) |
| Protection class | IP34 | IP34 |
| Casing insulation (mm) | 50 | 50 |
| Weight (kg) | 146 | 146 |
| Dimensions (L x D x H) mm | 900 x 720 x 1130 | 900 x 720 x 1130 |
| Part No. | 90000157 | 90000158 |

Dimensions





Controls

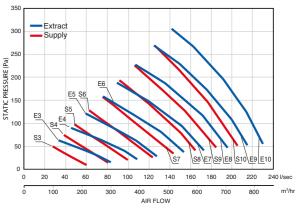
Ideal indoor air quality is achieved by automatically adjusted ventilation

Duplexvent DV200SE is controlled via a 8 speed digital control providing the following features:

- 8 speed control where both fans are 100% adjustable
- Automatic boost function with delay timer
- Filter maintenance reminder via counter clock (standard) / via pressure sensor (optional)
- Heater control for frost heater and post-heater
- Connection to BMS via LON or KNX
- Self diagnostic via fault signal relay
- On-demand control via humidity and CO₂ sensors
- Separate fan control for ease of commissioning
- Weekly ventilation programming allows users to preset the ventilation levels scheduled for different days
- Indoor temperature control based on extract air temperature or supply air temperature
- Internet connection available



Performance



* Guidance only. Dependant upon system pressure

Accessories

See switches/accessories pages 209-239 for more details.

Professional Line Side Entry - Up to 230 m³/hr air volume



Key Features

- For use in small sized dwellings up to 100 m²*
- Extract up to 216 m³/hr at 100 Pa
- Unique maintenance feature enables external access from outside dwelling
- Triple filter design with F7 pollen filter
- Up to 90% thermal efficiency and low SFP
- New smart frost protection
- Built-in electric post-heater
- Automatic, 100% summer bypass
- Low height (236mm) for suspended ceiling application
- SAP Appendix Q eligible and PASSIVE HOUSE Institute certified
- Complies with Building Regulations
- 5 year warranty⁺

Duplexvent DV50

Duplexvent DV50 brings a new approach to the heat recovery ventilation with a low profile design. It can be integrated into the structure of the dwelling, i.e. above the entry door so routine maintenance can be performed from the outside corridor without disturbing the resident. This ensures guick and easy maintenance and is ideal for apartment blocks.

The unit includes an easy to remove, aluminium heat exchanger which transfers warmth from the outgoing waste airstream into the incoming fresh air where at no point do the airstreams mix.





SAP Appendix Q

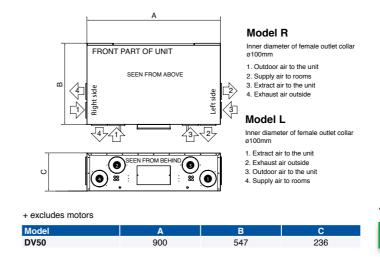
Tested by the BRE (Building Research Establishment) and The Duplexvent DV50 is tested and certified by the eligible for the SAP Appendix Q Passive House Institute based on the following criteria:

| DV50 | SFP | Efficiency |
|---------------|------------|------------|
| K+1 Wet room | 0.91 W/l/s | 79% |
| K+2 Wet rooms | 0.95 W/l/s | 80% |
| K+3 Wet rooms | 1.11 W/l/s | 81% |
| K+4 Wet rooms | 1.29 W/l/s | 81% |

Technical data

| Specification | Duplexvent DV50 R | Duplexvent DV50 L |
|--|--|--|
| Air flow m ³ /hr / l/sec @ 100 Pa | 230 / 64 | 230 / 64 |
| Thermal efficiency | Up to 90% | Up to 90% |
| Heat exchanger | Counterflow (Aluminium) | Counterflow (Aluminium) |
| Fans | EC | EC |
| Summer bypass damper | 100% automatic | 100% automatic |
| Frost protection | Frost heater | Frost heater |
| Controls | 4-Speed - Manual Digital (optional) | 4-Speed - Manual Digital (optional) |
| Mounting | Floor / Ceiling | Floor / Ceiling |
| Sound level @ 3m (dB(A)) | 27 - 49 | 27 - 49 |
| Duct diameter (mm) | 8 x 100 | 8 x 100 |
| Condensate discharge (mm) | 12 | 12 |
| Electrical supply | 230v / 1ph / 50Hz | 230v / 1ph / 50Hz |
| Max. power consumption | 104w | 104w |
| Filter class | 2 x G4 / 1 x F7 | 2 x G4 / 1 x F7 |
| Electric frost/post-heater | 900w | 900w |
| Protection class | IP34 | IP34 |
| Casing insulation (mm) | 20 | 20 |
| Weight (kg) | 45 | 45 |
| Dimensions (L x D x H) mm | 900 x 547 x 236 | 900 x 547 x 236 |
| Part No. | 9000003 | 9041558 |
| | | |

Dimensions





Passive House Certification

- Thermal comfort
- Effective heat recovery
- Electric power consumption
- Air tightness
- Balancing adjustability
- Sound insulation
- Indoor air quality
- Controls

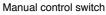


Four Speed Switch

Duplexvent DV50 is controlled via a 4 speed switch or an optional digital controller which allows 100% variable control at each speed setting.

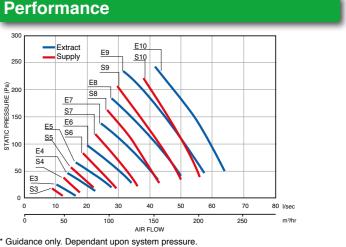
- Easy to install, simple to use
- Manual/automatic boost with timer
- Maintenance indicator and self diagnostic







Digital controller



Accessories

See Duplexvent accessories pages 170-173 for more details.

Professional Line Side Entry - Up to 230 m³/hr air volume

The unit incorporates the brand new smart frost protection facility which significantly reduces the energy consumed to protect the heat exchanger from freezing (see below for more information).

Equipped with a 4-speed simple controller the unit also has an automatic, 100% bypass facility which fully covers the heat exchanger at the pre-defined temperature and helps to effectively cool the indoor air during the summer months.

The DV50 is designed with a unique triple filter facility including a F7 pollen filter which provides additional protection against invisible, harmful particles and creates an ultra hygienic environment, particularly relevant for those suffering from asthma or other respiratory conditions.

The unique multi spigot design gives installers the flexibility to connect the ducting to the unit from different directions which reduces the number of duct connections and saves time on installation.

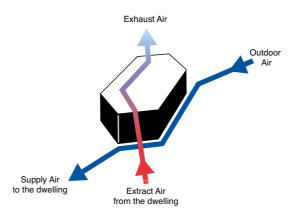
Fitted with an electric post-heater, the unit keeps the indoor air temperature at the required temperature level at all times hence saves energy especially during the winter period.

Having the latest, low energy EC fan technology, the DV50 complies with the ErP 2015 standards.

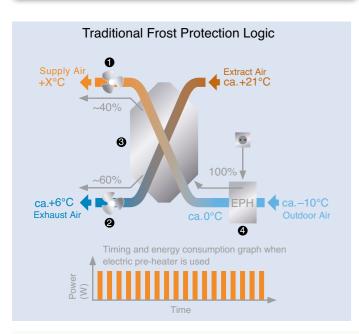
The unit comes with an outstanding 5 year warranty⁺, is SAP Appendix Q eligible, tested by TUV laboratories and also certified by the Passive House Institute.

100% Automatic Bypass

The unit is equipped with an automatic, 100% bypass which totally isolates the heat exchanger so that no air passes through it. This provides effective cooling in the summer season.



New Smart Frost Protection



On the traditional frost protection method, the outdoor air is pre-heated before passing through the heat exchanger. This way the unit could still provide balanced ventilation even when the frost protection was on. However, the electric heater kicks in intermittently hence consumes more energy than needed.

Electric pre-heater

6 Electric bypass damper

| Supply air fan | 4 Electric pre-h |
|-----------------|------------------|
| Exhaust air fan | 5 Frost heater |

2 Exhaust air fan

a

3 Heat exchanger

New Smart Frost Protection Logic 6 Extract Air **ca.+21°C** (Defrosting) 6) ca.0°C 🖕 **c**a.–10°C Outdoor Air 6 Timing and energy consumption graph when (ca. 50% less energy consumption Time

The new Smart Frost Protection method works in a more energy efficient manner which constantly monitors the heat exchanger conditions and uses the frost heater only when necessary. This significantly reduces the energy consumption and provides more heat recovery throughout the winter season.

Accessability

Landlords can protect their investment by insuring planned maintenance from outside the dwelling to preserve building fabric, ensure occupier wellbeing and save energy without the need to access the dwelling or disturb the tenant.

This significantly shortens maintenance time and saves on service cost.

Easy access to replace filters

Heat Recovery

Removable, secure front cover panel for maintenance

Removable Heat Exchanger,/ for quick cleaning

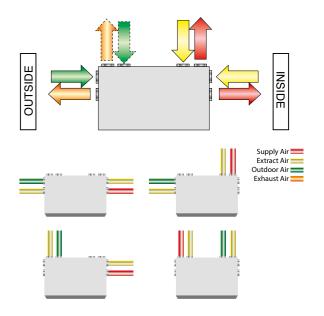
Durable steel double skin casing with 20mm insulation





Multi Spigot Design

The unique multi spigot design gives installers the flexibility to connect the ducting to the unit from different directions which reduces the number of duct connections and saves time on installation.





Professional Line Side Entry - Up to 360 m³/hr air volume



Key Features

- For use in medium sized dwellings up to 180 m²*
- Extract up to 342 m³/hr at 100 Pa
- Unique maintenance feature enables external access from outside dwelling
- Triple filter design with F7 pollen filter
- Over 90% thermal efficiency and low SFP
- New smart frost protection heater
- Built-in electric post-heater
- Automatic, 100% summer bypass
- Low height (293mm) for suspended ceiling application
- SAP Appendix Q eligible and PASSIVE HOUSE Institute certified
- Complies with Building Regulations
- 5 years warranty*

Duplexvent DV80

Duplexvent DV80 brings a new approach to the heat recovery ventilation with a low profile design. It can be integrated into the structure of the dwelling, i.e. above the entry door so routine maintenance can be performed from the outside corridor without disturbing the resident. This ensures guick and easy maintenance for and is ideal for apartment blocks.

The unit includes an easy to remove, plastic heat exchanger which transfers warmth from the outgoing waste airstream into the incoming fresh air where its thermal efficiency up to 90%. At no point do the airstreams mix.





SAP Appendix Q

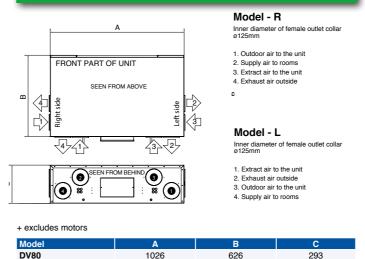
Tested by the BRE (Building Research Establishment) and The Duplexvent DV80 is tested and certified by the eligible for the SAP Appendix Q Passive House Institute based on the following criteria:

| DV80 | SFP | Efficiency |
|---------------|------------|------------|
| K+1 Wet room | 0.79 W/l/s | 90% |
| K+2 Wet rooms | 0.79 W/l/s | 91% |
| K+3 Wet rooms | 0.86 W/l/s | 90% |
| K+4 Wet rooms | 1.02 W/l/s | 90% |
| K+5 Wet rooms | 1.16 W/l/s | 89% |
| K+6 Wet rooms | 1.28 W/l/s | 89% |

Technical Data

| Specification | Duplexvent DV80 R | Duplexvent DV80 L |
|--|--------------------------------------|--------------------------------------|
| Air flow m ³ /hr / l/sec @ 100 Pa | 356 / 99 | 356 / 99 |
| Thermal efficiency | Up to 90% | Up to 90% |
| Heat exchanger | Counterflow (Plastic) | Counterflow (Plastic) |
| Fans | EC | EC |
| Summer bypass damper | 100% automatic | 100% automatic |
| Frost protection | Frost heater | Frost heater |
| Controls | 4-Speed - Manual Digital optional | 4-Speed - Manual Digital optional |
| Mounting | Floor / Ceiling | Floor / Ceiling |
| Sound level @ 3m (dB(A)) | 28 - 48 | 28 - 48 |
| Duct diameter (mm) | 8 x 125 | 8 x 125 |
| Condensate discharge (mm) | 12 | 12 |
| Electrical supply | 230v / 1ph / 50Hz | 230v / 1ph / 50Hz |
| Max. power consumption | 165w | 165w |
| Filter class | 2 x G4 / 1 x F7 | 2 x G4 / 1 x F7 |
| Electric frost heater | 900w | 900w |
| Electric post-heater | 900w | 900w |
| Protection class | IP34 | IP34 |
| Casing insulation (mm) | 20 | 20 |
| Weight (kg) | 59 | 59 |
| Dimensions (L x D x H) mm | 1026 x 626 x 293 | 1026 x 626 x 293 |
| Part No. | 9000067 | 90000066 |

Dimensions





Passive House Certification

- Thermal comfort
- Effective heat recovery
- Electric power consumption
- Air tightness
- Balancing adjustability
- Sound insulation
- Indoor air quality
- Frost protection

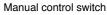
Controls



Duplexvent DV80 is controlled via a 4 speed switch or an optional digital controller which allows 100% variable control at each speed setting.

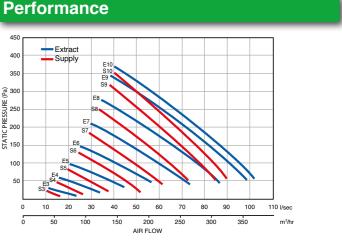
- Easy to install, simple to use
- Manual/automatic boost with timer
- Maintenance indicator and self diagnostic







Digital controller



* Guidance only. Dependant upon system pressure.

Accessories

See switches/accessories pages 209-239 for more details.

Professional Line Side Entry - Up to 360 m³/hr air volume

The unit incorporates the brand new smart frost protection facility which significantly reduces the energy consumed to protect the heat exchanger from freezing (see below for more information).

Equipped with a 4-speed simple controller the unit also has an automatic, 100% bypass facility which fully covers the heat exchanger at the pre-defined temperature and helps to effectively cool the indoor air during the summer months.

The DV80 is designed with a unique triple filter facility including a F7 pollen filter which provides additional protection against invisible, harmful particles and creates an ultra hygienic environment, particularly relevant for those suffering from asthma or other respiratory conditions.

The unique multi spigot design gives installers the flexibility to connect the ducting to the unit from different directions which reduces the number of duct connections and saves time on installation.

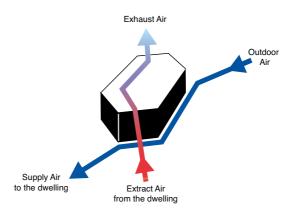
Fitted with an additional electric post-heater, the unit keeps the indoor air temperature at the required temperature level at all times hence saves energy especially during the winter period.

Having the latest, low energy EC fan technology, the DV80 complies with the ErP 2015 standards.

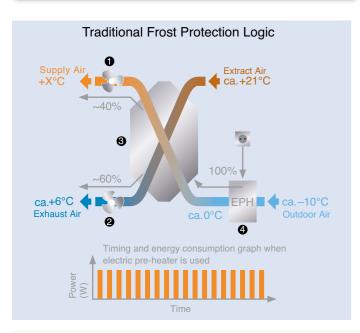
The unit comes with an outstanding 5 years warranty⁺, is SAP Appendix Q eligible, tested by TUV laboratories and also certified by the Passive House Institute.

100% Automatic Bypass

The unit is equipped with an automatic, 100% bypass which totally isolates the heat exchanger so that no air passes through it. This provides effective cooling in the summer season.



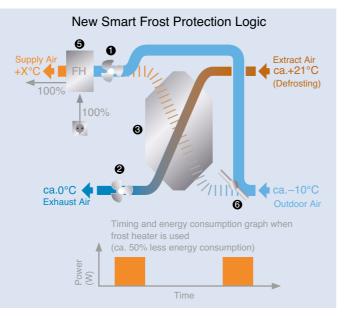
New Smart Frost Protection



On the traditional frost protection method, the outdoor air is pre-heated before passing through the heat exchanger. This way the unit could still provide balanced ventilation even when the frost protection was on. However, the electric heater kicks in intermittently hence consumes more energy than needed.

| Supply | air fan |
|----------------------------|---------|
|----------------------------|---------|

- 2 Exhaust air fan
- 3 Heat exchanger
- 4 Electric pre-heater **5** Frost heater
- 6 Electric bypass damper



The new Smart Frost Protection method works in a more energy efficient manner which constantly monitors the heat exchanger conditions and uses the frost heater only when necessary. This significantly reduces the energy consumption and provides more heat recovery throughout the winter season.

Accessability

Landlords can protect their investment by insuring planned maintenance from outside the dwelling to preserve building fabric, ensure occupier wellbeing and save energy without the need to access the dwelling or disturb the tenant.

This significantly shortens maintenance time and saves on service cost.

Easy access to replace filters

Heat Recovery

Removable, secure front cover panel for maintenance

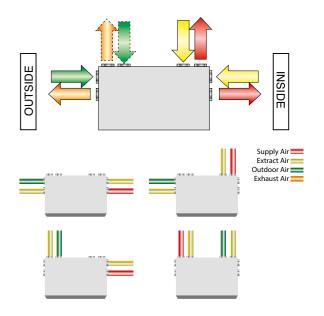
for quick cleaning

Durable steel double skin casing with 20mm insulation



Multi Spigot Design

The unique multi spigot design gives installers the flexibility to connect the ducting to the unit from different directions which reduces the number of duct connections and saves time on installation.





airflow.com

Duplexvent DV190/390/520SE

Interactive Line Top Entry - Up to 520 m³/hr air volume



Key Features

- For use in small, medium and large sized dwellings up to 280 m² *
- 3 models (top entry) up to 500 m³/hr at 100 Pa
- Galvanised steel, double skin casing
- Over 90% thermal efficiency and low noise
- Automatic, 100% summer bypass
- Remote control via laptop or smart phone
- Internet connection with service interface
- Ten speed digital control with BMS
- Optional constant flow function
- Compliant to PASSIVE HOUSE Institute and ErP 2015 standards
- 5 year warranty*

Duplexvent DV190/390/520SE

and DV520SE are highly efficient, top entry mechanical supply and extract ventilation units with heat recovery for an air capacity of up to 520 m3/hr. It is a wall/floor mounted unit and is delivered complete with a full condensate drain kit.

The unit is made of galvanised steel and has a double-skin casing which is insulated with 30mm thick polyurethane

The Duplexvent Interactive Line DV190SE, DV390SE $(U = 0.65 \text{ Wm}^{-2}\text{K}^{-1})$ to eliminate any thermal bridging and minimise noise levels.

> The units include an easily removable, plastic heat exchanger which transfers warmth from the outgoing waste airstream into the incoming fresh air where its thermal efficiency exceeds 90%. At no point do the airstreams mix.





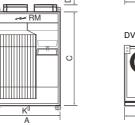
100% Automatic Bypass

The unit is equipped with an automatic, 100% bypass which totally isolates the heat exchanger so that no air passes through it. This provides effective cooling in the summer season.

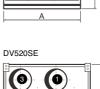
Technical Data

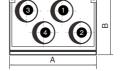
| Specification | Duplexvent DV190SE | |
|---------------------------------|-----------------------|--|
| Air flow m³/hr / l/sec @ 100 Pa | 180 / 50 | |
| Thermal efficiency | Over 90% | |
| Heat exchanger | Counterflow (Plastic) | |
| Fans | EC | |
| Summer bypass damper | 100% automatic | |
| Frost protection | Reducing supply air | |
| Controls | 10-Speed - Digital | |
| Connection to BMS | MODBUS (TCP/IP) | |
| Mounting | Wall / Floor | |
| Sound level @ 3m (dB(A)) | 29 - 41 | |
| Duct diameter (mm) | 4 x 125 | |
| Condensate discharge (mm) | 16 | |
| Electrical supply | 230v / 1ph / 50Hz | |
| Max. power consumption | 100w | |
| Filter class | 2 x G4 (optional F7) | |
| Electric frost heater | 900w (optional) | |
| Electric post-heater | 900w (optional) | |
| Water post-heater | 1000w (optional) | |
| Casing insulation (mm) | 30 | |
| Weight (kg) | 26 | |
| Dimensions (L x D x H) mm | 560 x 370 x 880 | |
| Part No. | 90000291 | |

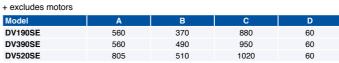
DV190SE DV390SE 0 **(3 ()** $(\mathbf{0})$ (8) (0)(0)



Dimensions









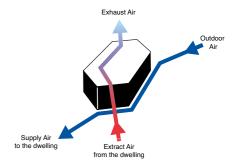
Duct Connections

1. Exhaust air outside

3. Supply air to rooms

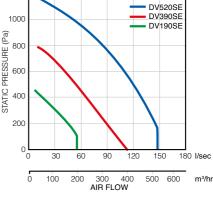
4. Extract air to the unit K. Condensate drain

2. Outdoor air to the unit



| Duplexvent DV390SE | Duplexvent DV520SE |
|-----------------------|-----------------------|
| 350 / 97 | 500 / 139 |
| Over 90% | Over 90% |
| Counterflow (Plastic) | Counterflow (Plastic) |
| EC | EC |
| 100% automatic | 100% automatic |
| Reducing supply air | Reducing supply air |
| 10-Speed - Digital | 10-Speed - Digital |
| MODBUS (TCP/IP) | MODBUS (TCP/IP) |
| Wall / Floor | Wall / Floor |
| 27 - 49 | 29 - 53 |
| 4 x 160 | 4 x 200 |
| 16 | 16 |
| 230v / 1ph / 50Hz | 230v / 1ph / 50Hz |
| 200w | 360w |
| 2 x G4 (optional F7) | 2 x G4 (optional F7) |
| 1500w (optional) | 2100w (optional) |
| 1500w (optional) | 2100w (optional) |
| 1700w (optional) | 2400w (optional) |
| 30 | 30 |
| 30 | 35 |
| 560 x 490 x 950 | 805 x 510 x 1020 |
| 90000292 | 90000293 |
| | |





* Guidance only. Dependant upon system pressure.

Accessories

See switches/accessories pages 209-239 for more details.

Duplexvent DV190/390/520SE

Interactive Line Top Entry - Up to 520 m³/hr air volume

All the Interactive Line units incorporate an integrated web server with user and service interfaces which enable unit control and monitoring from a remote location.

With this unique feature you can control your unit via a computer, laptop or smart phone in order to maintain the optimum operation at all times. Similarly a service technician can connect to the unit remotely, check the status, diagnose any faults and instruct the user what to do immediately, saving service and down time costs.

The units include a digital controller with LCD display which incorporates 10-speed air flow control, weekly ventilation programming, filter maintenance indicator, automatic frost protection facility and automatic boost function with delay timer.

The units are also continuously checked for any faults by the integrated Failure Diagnostic System which alerts the user as soon as it detects any unusual operation hence providing a real time maintenance update.

On-demand ventilation can be achieved by using humidity, CO₂ and air quality sensors which boost the air volume gradually based on the moisture and occupancy levels in the dwelling. It is also possible to integrate the unit into a Building Management System (MODBUS TCP/IP) to monitor and control the unit's functions by a central control svstem.

Having the latest, low energy EC fan technology, the DV190SE, DV390SE and DV520SE comply with the ErP 2015 standards, are tested by TUV laboratories and come with an outstanding 5 year warranty*.

Controls

The digital control provides the following features:

- 10 speed EC fan control
- Daily / Weekly programme setting
- Automatic boost function with timer delay (via volt-free contact or 0-10V sensor output)
- Automatic frost protection reduces the supply ventilation rate for a certain period to prevent ice build-up within the heat recovery cell depending on the outside air temperature
- Automatic, 100% summer bypass provides free cooling in the summer season. Its motorised damper is triggered by the temperature sensor automatically
- Heater control for frost heater and post-heater



- Filter monitoring and alert via pressure sensors
- BMS connection (Modbus TCP/IP)
- Internet connection with user and service interfaces
- Outputs for electric / water heater
- Zonal ventilation control (winter / summer)
- Constant flow / pressure control
- Indoor temperature control based on extract air / supply air / room temperature via 5 different sensors
- Demand ventilation via CO₂, humidity and air quality sensors



Internet Connection

Duplexvent Interactive Line units incorporate an Internet server that uses Modbus TCP/IP protocol to provide a connection between the ventilation unit and the internet via a standard plug and play ethernet cable.

This allows you to monitor and control the unit from a computer, laptop or smartphone via the internet or a local area network. The unit can also be monitored remotely by technical service which saves time and cost on service processes.



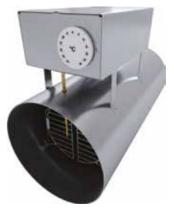
Heaters

The new generation PTC (Positive Temperature Coefficient) electric heater incorporates a power adjustment facility which automatically increases/decreases the power based on the air volume going through the heater hence shortens the heating response.

Also the heater has two protection thermostats and a perforated metal filter which can easily be maintained via the inspection door. This significantly increases its life span especially when the heater is installed on the outdoor air side for frost protection purposes. Alternatively it can be used as post-heater to achieve the required indoor air temperature.







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Duplexvent DV180/370/510SE

Interactive Line Side Entry - Up to 510 m³/hr air volume



Key Features

- For use in small, medium and large sized dwellings up to 280 m² *
- 3 models (side entry) up to 500 m³/hr at 100 Pa
- Galvanised steel, double skin casing
- Over 90% thermal efficiency and low noise
- Automatic, 100% summer bypass
- Versatile design (automatic switch between right / left hand configurations)
- Remote control via laptop or smart phone
- Internet connection with service interface
- Ten speed digital control with BMS
- Optional constant flow function
- Compliant to PASSIVE HOUSE Institute and ErP 2015 standards
- 5 year warranty⁺

Duplexvent DV180/370/510SE

The Duplexvent Interactive Line DV180SE, DV370SE and DV510SE are highly efficient, side entry mechanical supply and extract ventilation units with heat recovery for an air capacity of up to 510 m³/hr. It is a ceiling mounted unit and is delivered complete with a full condensate drain kit.

The unit is made of galvanised steel and has a double-skin casing which is insulated with 30mm thick polyurethane

 $(U = 0.65 \text{ Wm}^{-2}\text{K}^{-1})$ to eliminate any thermal bridging and minimise noise levels.

The units include an easily removable, plastic heat exchanger which transfers warmth from the outgoing waste airstream into the incoming fresh air where its thermal efficiency exceeds 90%. At no point do the airstreams mix.





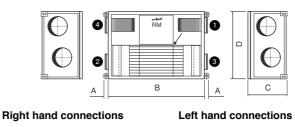
100% Automatic Bypass

The unit is equipped with an automatic, 100% bypass which totally isolates the heat exchanger so that no air passes through it. This provides effective cooling in the summer season.

Technical Data

| Specification | Duplexvent DV180SE |
|--|-----------------------|
| Air flow m ³ /hr / l/sec @ 100 Pa | 170 / 47 |
| Thermal efficiency | Over 90% |
| Heat exchanger | Counterflow (Plastic) |
| Fans | EC |
| Summer bypass damper | 100% automatic |
| Frost protection | Reducing supply air |
| Controls | 10-Speed - Digital |
| Connection to BMS | MODBUS (TCP/IP) |
| Mounting | Under - Ceiling |
| Sound level @ 3m (dB(A)) | 26 - 48 |
| Duct diameter (mm) | 4 x 160 |
| Condensate discharge (mm) | 16 |
| Electrical supply | 230v / 1ph / 50Hz |
| Max. Power consumption | 100w |
| Filter class | 2 x G4 (optional F7) |
| Electric frost heater | 900w (optional) |
| Electric post-heater | 900w (optional) |
| Water post-heater | 1000w (optional) |
| Casing insulation (mm) | 30 |
| Weight (kg) | 28 |
| Dimensions (L x D x H) mm | 830 x 585 x 280 |
| Part No. | 90000294 |

Dimensions

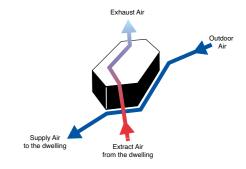


1. Supply air to rooms Outdoor air to the unit
 Extract air to the unit 4. Exhaust air outside

1. Exhaust air outside 2. Extract air to the unit 3. Outdoor air to the unit 4. Supply air to rooms

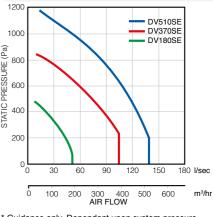
| + excludes motors | | | | |
|-------------------|----|------|-----|-----|
| Model | Α | В | С | D |
| DV180SE | 60 | 830 | 280 | 585 |
| DV370SE | 60 | 1120 | 280 | 840 |
| DV510SE | 60 | 1290 | 365 | 860 |





| Duplexvent DV510SE |
|-----------------------|
| 500 / 139 |
| Over 90% |
| Counterflow (Plastic) |
| EC |
| 100% automatic |
| Reducing supply air |
| 10-Speed - Digital |
| MODBUS (TCP/IP) |
| Under - Ceiling |
| 32 -51 |
| 4 x 250 |
| 16 |
| 230v / 1ph / 50Hz |
| 375w |
| 2 x G4 (optional F7) |
| 2100w (optional) |
| 2100w (optional) |
| 2400w (optional) |
| 30 |
| 38 |
| 1290 x 860 x 365 |
| 90000296 |
| |

Performance



* Guidance only. Dependant upon system pressure

Accessories

See switches/accessories pages 209-239 for more details.

Duplexvent DV180/370/510SE

Interactive Line Side Entry - Up to 510 m³/hr air volume

All the Interactive Line units incorporate an integrated web server with user and service interfaces which enable unit control and monitoring from a remote location.

With this unique feature you can control your unit via a computer, laptop or smart phone in order to maintain the optimum operation at all times. Similarly a service technician can connect to the unit remotely, check the status, diagnose any faults and instruct the user what to do immediately, saving service and down time costs.

The units include a digital controller with LCD display which incorporates 10-speed air flow control, weekly ventilation programming, filter maintenance indicator, automatic frost protection facility and automatic boost function with delay timer.

The units are also continuously checked for any faults by the integrated Failure Diagnostic System which alerts the user as soon as it detects any unusual operation hence providing a real time maintenance update.

On-demand ventilation can be achieved by using humidity, CO₂ and air quality sensors which boost the air volume gradually based on the moisture and occupancy levels in the dwelling. It is also possible to integrate the unit into a Building Management System (MODBUS TCP/IP) to monitor and control the unit's functions by a central control system.

Having the latest, low energy EC fan technology, the DV180SE, DV370SE and DV510SE comply with the ErP 2015 standards, are tested by TUV laboratories and come with an outstanding 5 year warranty*.

Internet Connection

Duplexvent Interactive Line units incorporate an Internet server that uses Modbus TCP/IP protocol to provide a connection between the ventilation unit and the internet via a standard plug and play ethernet cable.

This allows you to monitor and control the unit from a computer, laptop or smartphone via the internet or a local area network. The unit can also be monitored remotely by technical service which saves time and cost on service processes.



Heaters

The new generation PTC (Positive Temperature Coefficient) electric heater incorporates a power adjustment facility which automatically increases/decreases the power based on the air volume going through the heater hence shortens the heating response.

Also the heater has two protection thermostats and a perforated metal filter which can easily be maintained via the inspection door. This significantly increases its life span especially when the heater is installed on the outdoor air side for frost protection purposes. Alternatively it can be used as post-heater to achieve the required indoor air temperature.

Controls

The digital control provides the following features:

- 10 speed EC fan control
- Daily / Weekly programme setting
- Automatic boost function with timer delay (via volt-free contact or 0-10V sensor output)
- Automatic frost protection reduces the supply ventilation rate for a certain period to prevent ice build-up within the heat recovery cell depending on the outside air temperature
- Automatic, 100% summer bypass provides free cooling in the summer season. Its motorised damper is triggered by the temperature sensor automatically
- Heater control for frost heater and post-heater



- Filter monitoring and alert via pressure sensors
- BMS connection (Modbus TCP/IP)
- Internet connection with user and service interfaces
- Outputs for electric / water heater
- Zonal ventilation control (winter / summer)
- Constant flow / pressure control
- Indoor temperature control based on extract air / supply air / room temperature via 5 different sensors
- Demand ventilation via CO₂, humidity and air quality sensors









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Duplexvent Range Overview

Residential Heat Recovery

| | BASIC LINE | (TOP ENTRY) | BASIC LINE (SIDE ENTRY) | | | | |
|--|------------------|-------------------|-------------------------|------------------------|-----------|--|--|
| Model | DV72 | BV400 | DV250 | DV300 | DV400 | | |
| | | Ţ | | | | | |
| Air flow m ³ /hr / l/sec @ 100Pa | 235 / 65 | 425 / 118 | 250 / 69 | 300 / 83 | 400 / 111 | | |
| Thermal efficiency | | | Over 90% | | | | |
| Fans | | | EC | | | | |
| Automatic summer bypass | - | Standard | | Standard | | | |
| 100% summer bypass | - | - | | Standard | | | |
| Frost protection via heater | - | Optional | | Optional | | | |
| Frost protection via supply air reduction | - | Standard | | Standard | | | |
| Standard control | 3-speed (manual) | 3-speed (manual) | 1 | 00% Variable (manual |) | | |
| Alternative control | - | 3-speed (digital) | | 10-speed (digital) | | | |
| Boost with delay timer | - | Standard | | Optional | | | |
| Maintenance indicator | - | Standard | | Optional | | | |
| Weekly ventilation programming | - | Optional | | Optional | | | |
| BMS connection | - | Standard | | Optional | | | |
| Integrated web server | - | - | | Optional | | | |
| Mounting | Wall / Ceiling | Floor / Wall | | Wall / Ceiling / Floor | | | |
| Triple filter | - | - | - | - | - | | |
| Filter class | 2 x G3 | | 2 x G4 (F7 | 7 optional) | | | |
| Post-heater | | | Optional | | | | |
| Warranty | 1 year | 3 years⁺ | | 2 years+ | | | |
| SAP Appendix Q eligible | 1 | 1 | - | - | - | | |
| Passive House Institute certified | - | - | - | - | - | | |

Duplexvent Range Overview

Residential Heat Recovery

| | | PROFESSIO | ONAL LINE (1 | OP ENTRY) | | PROFESSIONAL I | LINE (SIDE ENTR) | | | |
|---|-------------------------|-----------------|--------------|-----------|-----------|----------------|------------------|--|--|--|
| Model | DV90SCK | DV96SE | DV110SE | DV145SE | DV200SE | DV50 | DV80 | | | |
| | | 1 | | | • | | | | | |
| Air flow m³/hr / l/sec @ 100Pa | 306 / 85 | 324 / 90 | 414 / 115 | 568 / 158 | 828 / 230 | 230 / 64 | 356 / 99 | | | |
| Thermal efficiency | | Up to | 90% | | U | Ip to 90% | Up to 90% | | | |
| Fans | | | | E | EC | | | | | |
| Automatic summer bypass | | | | Sta | ndard | | | | | |
| 100% summer bypass | | | | Sta | ndard | | | | | |
| Frost protection via heater | | | | Sta | ndard | | | | | |
| Frost protection via supply air reduction | | | | Sta | ndard | | | | | |
| Standard control | 4-speed (cookerhood) | | 8-speed | (digital) | | 4-speed | (manual) | | | |
| Alternative control | 4-speed (manual) | - | - | - | - | 4-speed | d (digital) | | | |
| Boost with delay timer | - | Standard | Standard | Standard | Standard | Optional | Optional | | | |
| Maintenance indicator | - | Standard | Standard | Standard | Standard | Standard | Standard | | | |
| Weekly ventilation programming | - | Standard | Standard | Standard | Standard | - | - | | | |
| BMS connection | - | Optional | Optional | Optional | Optional | Optional | Optional | | | |
| Integrated web server | - | - | - | - | - | - | - | | | |
| Mounting | | W | all | | Floor | Floor / | Ceiling | | | |
| Triple filter | | | | Sta | ndard | | | | | |
| Filter class | | 2 x G4 / 1 x F7 | | | | | | | | |
| Post-heater | | | | Sta | ndard | | | | | |
| Warranty | | | | 5 y | ears+ | | | | | |
| SAP Appendix Q eligible | 1 | 1 | 1 | 1 | - | 1 | 1 | | | |
| Passive House Institute certified | - | 1 | 1 | 1 | - | 1 | 1 | | | |



Duplexvent Range Overview

Residential Heat Recovery

| | INTERAC | TIVE LINE (TC | P ENTRY) | INTER | ACTIVE LINE (SIDE I | ENTRY) |
|--|----------|---------------|-----------|--------------------------|---------------------|-----------|
| Model | DV190SE | DV390SE | DV520SE | DV180SE | DV370SE | DV510SE |
| | | | | | | |
| Air flow m³/hr / l/sec @ 100Pa | 180 / 50 | 350 / 97 | 500 / 139 | 170 / 47 | 350 / 97 | 500 / 139 |
| Thermal efficiency | | | | Over 90% | | |
| Fans | | | | EC | | |
| Automatic summer bypass | | | | Standard | | |
| 100% summer bypass | | | | Standard | | |
| Frost protection via heater | | | | Optional | | |
| Frost protection via supply Air reduction | | | | Standard | | |
| Standard Control | | | 10-s | peed (digital) with inte | ernet | |
| Boost with delay timer | | | | Standard | | |
| Maintenance indicator | | | | Standard | | |
| Weekly ventilation programming | | | | Standard | | |
| BMS connection | | | | Standard | | |
| Integrated web server | | | | Standard | | |
| Mounting | | Wall / Floor | | | Under - Ceiling | |
| Triple filter | - | - | - | - | - | - |
| Filter class | | | | 2 x G4 (F7 optional) | | |
| Post-heater | | | | Optional | | |
| Warranty | | | | 5 years⁺ | | |
| SAP Appendix Q eligible | - | - | - | - | - | - |
| Passive House Institute certified | - | - | - | - | 1 | - |

Air Flow Solutions

ican The stylish face of ventilation



For further information see pages 54-73



- Unique, quiet, reliable with modern styling
- A range of fans for toilet, bathroom, utility and kitchen ventilation
- IRIS shutter prevents back draughts and reduces noise ingress
- Choice of Basic, Timer, Humidity, **Motion Sensor and SELV models**
- Easy fit a round fan for a round hole
- Complies with Building Regulations



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Duplexvent Residential Accessories

| Part No. | Description | Product Image | DV72 | BV400 | DV250 DV300 DV400 | DV50 DV80 | DV96 DV110 DV145 DV200 | DV180 DV190 DV370 DV390 DV510 DV520 |
|--------------|---|---------------|---------|---------|-------------------------|--------------|---------------------------------|--|
| Controllers | - Switches - Sensors | | | | | | | |
| Manual cor | ntrol switch | | | | | | | |
| 90000082 | 3 speed, 100% adjustable | • | ۲ | - | - | - | - | - |
| Boost swite | ch | | | | | | | |
| 90000542 | Manual boost (1-way) | • | ۲ | ۲ | ۲ | ۲ | ۲ | ۲ |
| Electrical h | umidistat | | | | | | | |
| 9041570 | 30-90% rh (volt-free output) | .0. | \odot | ۲ | ۲ | \odot | ۲ | ۲ |
| Manual cor | ntrol switch | | | | | | | |
| 90000334 | 3 speed | | - | \odot | - | - | - | - |
| Digital con | troller | | | | | | | |
| 90000336 | 3 speed LCD display with data logger and weekly programming | 1 | - | ۲ | - | - | - | - |
| PIR motion | sensor | | | | | | | |
| 51969702 | With 3-30 min timer (230v output) | • 💿 • | - | ۲ | - | - | - | - |
| Manual cor | ntrol switch | | | | | | | |
| 90000408 | 100% adjustable | <u> </u> | - | - | ۲ | - | - | - |
| Digital con | troller | - | | | | | | |
| 90000409 | Touch screen panel | MAC IL | - | - | \odot | - | - | - |
| Manual cor | ntrol switch | . 16 | | | | | | |
| 9041219 | 4 speed, 100% adjustable | 9 | - | - | - | ۲ | - | - |
| Digital con | troller | | | | | | | |
| 90000227 | 4 speed, 100% adjustable | 0.°. | - | - | - | ۲ | - | - |
| Digital con | troller | | | | | | | |
| 9041082 | 8 speed, 100% adjustable | 1111 | - | - | - | - | ۲ | - |

Duplexvent Residential Accessories

| Part No. | Description | Product Image | DV72 | BV400 | DV250 DV300 DV400 | DV50 DV80 | DV96 DV110 DV145 DV200 | DV180 DV190 DV370 DV390 DV510 DV520 |
|------------------------|-------------------------------------|---------------|------|---------|-------------------------|--------------|---------------------------------|--|
| Controllers | s - Switches - Sensors | | | | | | | |
| Room hum | idity sensor | 144 | | | | | | |
| 90000320 | Room rh (0-10v output) | | - | ۲ | ۲ | - | - | \odot |
| Duct humic | dity sensor | Self- | | | | | | |
| 90000313 | Duct rh (0-10v output) | | - | \odot | ۲ | - | - | ۲ |
| Room CO ₂ | sensor | 1444 | | | | | | |
| 90000166 | Room CO ₂ (0-10v output) | | - | ۲ | ۲ | - | - | \odot |
| Duct CO ₂ s | ensor | Self- | | | | | | |
| 90000165 | Duct CO ₂ (0-10v output) | | - | ۲ | ۲ | - | - | \odot |
| Room air q | uality sensor | 199 | | | | | | |
| 90000321 | Room air quality (0-10v output) | | - | ۲ | ۲ | - | - | ۲ |
| Built-in hur | nidity / air quality sensor | | | | | | | |
| 90000325 | Built-in humidity sensor | | - | ۲ | - | - | - | - |
| 90000344 | Built-in air quality sensor | 7 | - | ۲ | - | - | - | - |
| Pressure se | ensor | 1 | | | | | | |
| 90000326 | For filter monitoring | - A | - | ۲ | - | - | - | - |
| Digital con | troller | um | | | | | | |
| 90000297 | 10 speed, incl. internet control | ma | - | - | - | - | - | Θ |
| Room CO ₂ | sensor | | | | | | | |
| 9041180 | Room CO ₂ (LON RS485) | | - | - | - | - | \odot | - |
| Room hum | idity sensor | | | | | | | |
| 9041181 | Room rh (4-20mA output) | | - | - | - | - | ۲ | - |



Duplexvent Residential Accessories

| Part No. | Description | Product Image | DV72 | BV400 | DV250 DV300 DV400 | DV50 DV80 | DV96 DV110 DV145 DV200 | DV180 DV190 DV370 DV390 DV510 DV520 |
|-------------|---------------------------|---------------|------|---------|-------------------------|--------------|---------------------------------|--|
| Filters | | | | | | | | |
| Filter pack | | | | | • | | | |
| 90000410 | 2 x G4 filter (DV250) | | - | - | \odot | - | - | - |
| 90000411 | 2 x G4 filter (DV300) | 0 | - | - | • | - | - | - |
| 90000412 | 2 x G4 filter (DV400) | | - | - | \odot | - | - | - |
| 90000214 | 2 x G4 / 1 x F7 (DV50) | | - | - | - | ۲ | - | - |
| 90000213 | 2 x G4 / 1 x F7 (DV80) | | - | - | - | ۲ | - | - |
| 9041127 | 2 x G4 / 1 x F7 (DV90SCK) | | - | - | - | ۲ | - | - |
| 90000375 | 2 x G4 / 1 x F7 (DV96SE) | | - | - | - | - | \odot | - |
| 90000378 | 2 x G4 / 1 x F7 (DV110SE) | | - | - | - | - | \odot | - |
| 90000376 | 2 x G4 / 1 x F7 (DV145SE) | | - | - | - | - | ۲ | - |
| 90000374 | 2 x G4 / 1 x F7 (DV200SE) | | - | - | - | - | ۲ | - |
| 9041511 | 2 x G3 filter | | ۲ | - | - | - | - | - |
| 90000322 | 2 x G4 filter | | - | \odot | - | - | - | - |
| 90000323 | 1 x F7 filter | | - | \odot | - | - | - | - |
| 90000426 | 2 x G4 filter (DV190SE) | | - | - | - | - | - | ۲ |
| 90000427 | 2 x G4 filter (DV390SE) | | - | - | - | - | - | ۲ |
| 90000428 | 2 x G4 filter (DV520SE) | | - | - | - | - | - | ۲ |
| 90000423 | 2 x G4 filter (DV180SE) | | - | - | - | - | - | ۲ |
| 90000424 | 2 x G4 filter (DV370SE) | | - | - | - | - | - | ۲ |
| 90000425 | 2 x G4 filter (DV510SE) | ~ | - | - | - | - | - | ۲ |

Duplexvent Residential Accessories

| Part No. | Description | Product Image | DV72 | BV400 | DV250 DV300 DV400 | DV50 DV80 | DV96 DV110 DV145 DV200 | DV180 DV190 DV370 DV390 DV510 DV520 |
|--------------|--|--|------|-------|-------------------------|--------------|---------------------------------|--|
| Heaters | | | | | | | | |
| Electric due | ct heater | 10100 | | | | | | |
| 90000301 | 125mm, 1.2kW incl. temp. sensor and control switch | (| ٥ | - | - | - | - | - |
| Electric due | ct heater | 0 | | | | | | |
| 90000324 | 160mm, 1.0kW (BV400) | | - | ۲ | - | - | - | - |
| Electric due | ct heater | | | | | | | |
| 90000413 | 160mm, 0.4kW (DV250) | AL- | - | - | \odot | - | - | - |
| 90000414 | 160mm, 0.7kW (DV300) | | - | - | \odot | - | - | - |
| 90000415 | 160mm, 1.7kW (DV400) | | - | - | \odot | - | - | - |
| Electric due | ct heater | | | | | | | |
| 90000162 | 125mm, 0.9kW (DV190SE) | 135 | - | - | - | - | - | ۲ |
| 90000163 | 160mm, 1.5kW (DV180/390SE) | | - | - | - | - | - | ۲ |
| 90000156 | 200mm, 2.1kW (DV370/520SE) | | - | - | - | - | - | ۲ |
| 90000173 | 250mm, 3.0kW (DV510SE) | | - | - | - | - | - | \odot |
| Water duct | heater | d. | | | | | | |
| 90000429 | 125mm, 0.7kW (DV190SE) | Contraction of the second | - | - | - | - | - | \odot |
| 90000430 | 160mm, 1.2kW (DV180/390SE) | 9 A | - | - | - | - | - | \odot |
| 90000431 | 200mm, 1.7kW (DV370/520SE) | and the second s | - | - | - | - | - | \odot |
| 90000432 | 250mm, 2.0kW (DV510SE) | | - | - | - | - | - | \odot |
| Other comp | oonents | | | | | | | |
| LON-Conve | erter | . 1 | | | | | | |
| 9041120 | For BMS connection (LON) | | - | - | - | - | ۲ | - |
| KNX-Conve | erter | A | | | | | | |
| 90000226 | For BMS connection (KNX) | 1 | - | - | - | - | ۲ | - |
| Horizontal | condensate kit | - | | | | | | |
| 90000122 | For horizontal installation | P | ۲ | - | - | - | - | |
| Metal casin | g | | | | | | | |
| 90000345 | Galvanised (DV250) | | - | - | \odot | - | - | - |
| 90000347 | Galvanised (DV300/400) | - JP | - | - | \odot | - | - | - |





Ventilation with Heat Recovery

Commercial

Duplexvent Commercial Heat Recovery units Using these heat recovery units also helps are designed for saving energy and also the building to be assessed for the BREEAM improving indoor air quality. These units (BRE Environmental Assessment Method) provide ventilation with heat recovery for standard that is the leading and most widely commercial and industrial areas by using used environmental assessment method for highly efficient polypropylene exchangers, new buildings. Setting the standard for best recovering heat from air to air. The heat practice in sustainable design it has become is effectively transferred from warm to the de facto measure used to describe a cold air by the exchangers with high building's environmental performance. conductivity and performance.

Duplexvent Flexi Line

Available in four sizes, Duplexvent Flexi Line units meet Duplexvent Multi and Multi-N Line heat recovery units are the ventilation requirements of modern and energy saving used for comfort ventilation, as well as warm-air heating buildings as they achieve the highest thermal efficiency and cooling of small office areas, shops, retail facilities, (up to 95%) and are the first Passive House Institute school buildings, restaurants, sport centres, industrial certified Commercial MVHR units in the U.K. halls and swimming pools.

Available in 72 different mounting versions and Extra benefits include low energy, low noise EC fans, internet connection with smart phone application, BMS indoor/outdoor installation options, all units are fully connection (ModBus TCP/IP), automatic frost protection customised according to the project specification and and 100% bypass facility. incorporate a highly efficient counter-cross flow plate heat exchanger achieving a thermal efficiency of 95%.

Unique to the Duplexvent Flexi Line is the ability to install the same unit either on the floor or under the ceiling Extra benefits include low energy, low noise EC fans, which provides exceptional flexibility for designers in the internet connection with smart phone application, BMS specification phase. Similarly HVAC distributors benefit connection (ModBus, KNX, BACnet), automatic frost from a range of "off the shelf" air handling units which can protection, built-in heating/cooling coils, air circulation and be quickly adapted to fit on-site. 100% bypass facility.

Duplexvent Rotary

Duplexvent Rotary Heat Recovery units use the rotary Modular in design the equipment is easily installed in wheel principle to recover heat that would otherwise be commercial, civic and retail applications. extracted to atmosphere.

The narrow, rotating heat exchanger delivers up to 85% thermal efficiency and using low energy, controllable EC motors is economical to operate.

Duplexvent Multi / Multi-N Line

Despite the full customisation Multi / Multi-N Line units can be delivered in a period of 4 weeks or earlier to meet tight project deadlines.

Duplexvent Flexi

Heat Recovery Ventilation



Key Features

- Heat recovery ventilation
- 95% thermal efficiency
- Low energy EC fans
- Versatile unit positioning
- Automatic, 100% bypass
- 10 speed digital control
- Internet connection
- Off the shelf delivery
- Passive House Institute certified
- 2 year warranty +

The indoor climate is of the utmost importance as most of us spend the greater part of our lives indoors. To ensure comfort and a sense of well-being, the air we breathe must be clean, and also be at the right temperature and humidity level. To most people, this is so self-evident that they do not give it a second thought.

Whatever the situation, Mechanical Ventilation with Heat Recovery (MVHR) solutions from Airflow can play a significant role because they help create a healthier living and working environment, while contributing to the reduction of a building's carbon emissions and energy usage.

Unique to the Duplexvent Flexi Line is the ability to position the unit on the floor or in a ceiling suspended position. Also this universal design allows the unit to be installed as either a left or right hand version.

This provides exceptional flexibility for designers in the specification phase and gives contractors the opportunity to locate the unit in the optimum position. Similarly HVAC distributors benefit from a range of "off the shelf" air handling units which can be quickly adapted to fit on-site. No more bespoke orders with long lead times!

+ Excludes motors







(FLEXI DV1100 / 1600 / 2600 / 3600)



Whole life cost savings

Building Operators and Asset Managers will appreciate results in saving onsite call outs, preventive service and the Flexi Line's innovative built-in internet connection down-time to both technician and client. with User and Service interface which allows service This unique feature minimises the service process as technicians to connect to the unit from a remote location. well as creating a secondary control display for the user.

By continuously checking the operating status, diagnosing any faults and instructing the user what to do immediately,





Optional water / DX heating and cooling coils help maintain optimum indoor conditions

the same unit

Upgrade Packs

1. Passive House Pack

• Electric pre-heater to warm the incoming air to protect the heat exchangers from freezing

2. Constant Pressure Pack

 Differential pressure and flow measurement for energy optimisation

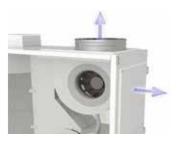
3. Hygiene Pack

· Inclined tube manometers to maintain the certified hygiene standard VDI 6022





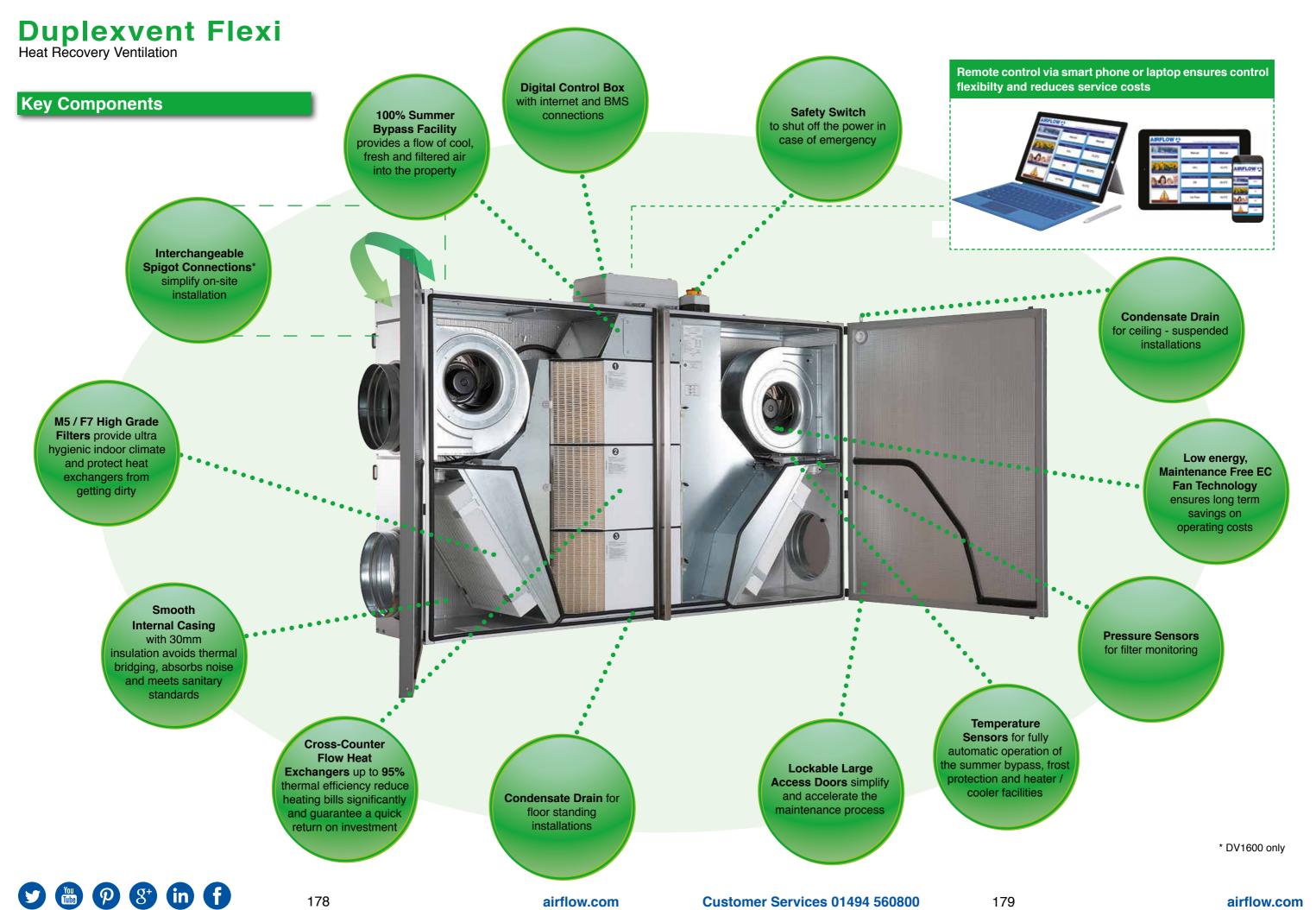
Versatile unit positioning enables right or left hand configuration on



Interchangeable spigot design allows the spigot connections to be changed on-site (DV1600)



airflow.com



airflow.com

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Flexi Line Side Entry - Up to 1100 m³/hr air volume



Key Features

- Extract up to 1000 m³/hr @ 200 Pa
- Excellent heat recovery efficiency, up to 95%
- Versatile unit positioning with floor and ceiling suspended mounting options
- Low SFP with energy saving EC fans
- Low noise, refer to NR35 and BB93 standards
- 10 speed digital control with Internet and BMS
- Compliant to BREEAM, Passive House and **ErP 2015 regulations**
- 2 year warranty +

Performance

| Sound Power Level Lw (dB) | dB (A) | 63 | 125 | 250 | 500 | 1 k | 2 k | 4 k | 8 k |
|---------------------------|--------|----|-----|-----|-----|-----|-----|-----|-----|
| Outdoor air e1 | 47 | 68 | 57 | 47 | 42 | 35 | 28 | <25 | <25 |
| Supply air e2 | 66 | 80 | 74 | 69 | 62 | 60 | 55 | 49 | 47 |
| Extract air i1 | 45 | 67 | 55 | 46 | 40 | 33 | 26 | <25 | <25 |
| Exhaust air i2 | 65 | 80 | 7 | 68 | 60 | 58 | 53 | 47 | 44 |
| Breakout noise | 51 | 70 | 55 | 57 | 44 | 40 | 33 | 27 | 25 |
| Sound Pressure Level Ld | dB (A) | 63 | 125 | 250 | 500 | 1 k | 2 k | 4 k | 8 k |
| To the surrounding | 21 | 49 | 35 | 37 | <25 | <25 | <25 | <25 | <25 |

Sound pressure level is measured at 3m distance

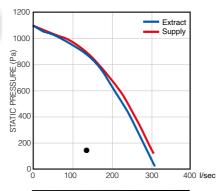
| Ventilation | | Supply Air | Extract Air |
|-------------------------------------|----------------------------|------------|-------------|
| Maximum air volume @ 200 Pa | m ³ /hr / l/sec | 1000 / 278 | 1000 / 278 |
| | | | |
| Air volume @ 150 Pa* | m³/hr / l/sec | 500 / 139 | 500 / 139 |
| Nominal voltage | V | 230 | 230 |
| Voltage (at operation point)* | V | 230 | 230 |
| Nominal Power (at operation point)* | W | 93 | 87 |
| Max connection power | W | 385 | 385 |
| Max current | А | 2.5 | 2.5 |
| Filters | | F7 | M5 |
| Fan Type | | EC | EC |

★ Note: ● The figures above have been measured at 500 m³/hr and 150 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

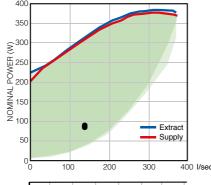
| Heat Recovery | | Supply Air | Extract Air |
|---|-------------------|---------------------|---------------------|
| Maximum air volume @ 200 Pa | m³/hr / l/sec | 1000 / 278 | 1000 / 278 |
| | | | |
| Air volume @ 150 Pa* | m³/hr / l/sec | 500 / 139 | 500 / 139 |
| Temperature at inlet* | °C | -10 | 22 |
| Temperature at outlet* | °C | 17 | 2 |
| Humidity at inlet [*] | %rh | 90 | 40 |
| Humidity at outlet* | %rh | 12 | 100 |
| Thermal efficiency in winter / summe | er % | 84 / | 80 |
| Performance in winter / summer | kW | 4.6 / | -0.6 |
| Condensation | l/h | 1. | 5 |
| Type of heat exchanger | | Counter Fl | ow, Plastic |
| Part No. | | 9000 | 0183 |
| Noto: The figures above have been measured at | 500 m3/br and 150 | Po Bloose use the D | Informant Coloction |

Note: ● The figures above have been measured at 500 m³/hr and 150 Pa. Please use the Dupley Software to calculate measurements at other performance levels.

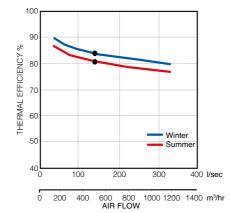




0 200 400 600 800 1000 1200 1400 m³/hr AIR FLOW

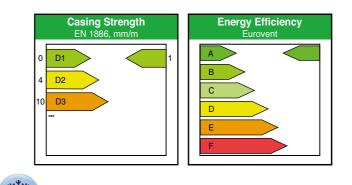


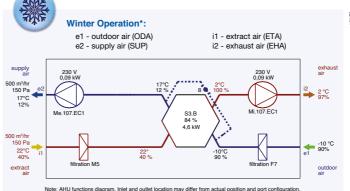
0 200 400 600 800 1000 1200 1400 m³/hr AIR FLOW

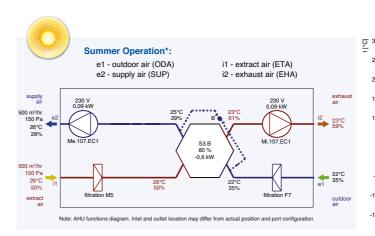


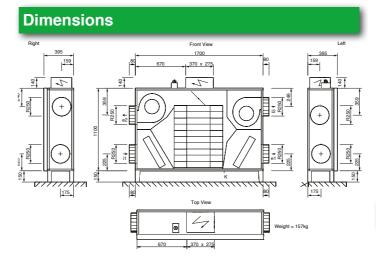
+ Excludes motors

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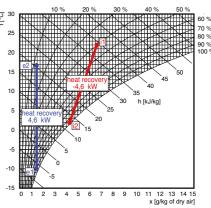


* The above figures are example performance measurements. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

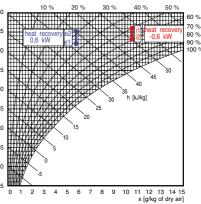








| Sup | Supply | | | | | | | |
|------------|---------------------|----------------|---------------------|--|--|--|--|--|
| | Description | t [°C] | rh [%] | | | | | |
| e1 | Outdoor Air | -10.0 | 90 | | | | | |
| e2 | Supply Air | 17.0 | 12 | | | | | |
| | | | | | | | | |
| Exh | aust | | | | | | | |
| Exh | aust Description | t [°C] | rh [%] | | | | | |
| Exha i1 | | t [°C] 22.0 | rh [%] 40 | | | | | |



| | Description | t [°C] | rh [%] | | | | |
|---------|-------------|--------|--------|--|--|--|--|
| e1 | Outdoor Air | 22.0 | 35 | | | | |
| e2 | Supply Air | 25.0 | 29 | | | | |
| Exhaust | | | | | | | |

| | Description | t [ºC] | rh [%] |
|----|-------------|--------|--------|
| i1 | Extract Air | 26.0 | 50 |
| i2 | Exhaust Air | 23.0 | 61 |

| Connections | Туре | Diameter | Accessories |
|-------------|-------------------|----------|--|
| e1 | Outdoor Air | Ø 250 mm | Shut-off Damper, Flexible Connector |
| e2 | Supply Air | Ø 250 mm | Flexible Connector |
| i1 | Extract Air | Ø 250 mm | Flexible Connector |
| i2 | Exhaust Air | Ø 250 mm | Flexible Connector |
| К | Condensate Outlet | Ø 21 mm | Condensate Trap |

Accessories

See Duplexvent accessories pages 204-206 for more details.

Flexi Line Side Entry - Up to 1800 m³/hr air volume



Key Features

- Extract up to 1600 m³/hr @ 200 Pa
- Excellent heat recovery efficiency, up to 95%
- Versatile unit positioning with floor and ceiling suspended mounting options
- Low SFP with energy saving EC fans
- Low noise, refer to NR35 and BB93 standards
- 10 speed digital control with internet and BMS
- Interchangeable spigot connections (DV1600 only)
- Compliant to BREEAM, Passive House and ErP 2015 regulations
- 2 year warranty +

Performance

| Sound Power Level Lw (dB) | dB (A) | 63 | 125 | 250 | 500 | 1 k | 2 k | 4 k | 8 k |
|---------------------------|--------|----|-----|-----|-----|-----|-----|-----|-----|
| Outdoor air e1 | 46 | 61 | 54 | 49 | 42 | 38 | 31 | <25 | <25 |
| Supply air e2 | 68 | 74 | 75 | 70 | 66 | 62 | 58 | 51 | 45 |
| Extract air i1 | 45 | 61 | 54 | 48 | 42 | 37 | 31 | <25 | <25 |
| Exhaust air i2 | 68 | 74 | 75 | 70 | 65 | 61 | 58 | 50 | 44 |
| Breakout noise | 55 | 59 | 61 | 59 | 51 | 50 | 44 | 32 | <25 |
| Sound Pressure Level Ld | dB (A) | 63 | 125 | 250 | 500 | 1 k | 2 k | 4 k | 8 k |
| To the surrounding | 35 | 38 | 41 | 39 | 30 | 29 | <25 | <25 | <25 |

Sound pressure level is measured at 3m distance

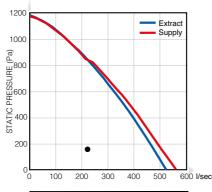
| Ventilation | | Supply Air | Extract Air |
|-------------------------------------|---------------|------------|-------------|
| Maximum Air Volume @ 200 Pa | m³/hr / l/sec | 1600 / 444 | 1600 / 444 |
| | | | |
| Air volume @ 150 Pa* | m³/hr / l/sec | 800 / 222 | 800 / 222 |
| Nominal voltage | V | 230 | 230 |
| Voltage (at operation point)* | V | 230 | 230 |
| Nominal power (at operation point)* | W | 114 | 105 |
| Max connection power | W | 490 | 490 |
| Max current | Α | 2.9 | 2.9 |
| Filters | | F7 | M5 |
| Fan type | | EC | EC |

* Note:
The figures above have been measured at 800 m³/hr and 150 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels

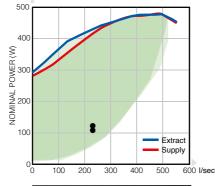
| Heat Recovery | | Supply Air | Extract Air |
|---------------------------------------|---------------|------------|-------------|
| Maximum Air Volume @ 200 Pa | m³/hr / l/sec | 1600 / 444 | 1600 / 444 |
| | | | |
| Air volume @ 150 Pa [*] | m³/hr / l/sec | 800 / 222 | 800 / 222 |
| Temperature at inlet* | Oo | -10 | 22 |
| Temperature at outlet* | °C | 18 | 1 |
| Humidity at inlet [*] | %rh | 90 | 40 |
| Humidity at outlet* | %rh | 11 | 100 |
| Thermal efficiency in winter / summer | r % | 87 | / 84 |
| Performance in winter / summer | kW | 7.7 / | -0.9 |
| Condensation | l/h | 2 | .5 |
| Type of heat exchanger | | Counter FI | ow, Plastic |
| Part No. | | 9000 | 0068 |

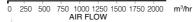
★ Note: ● The figures above have been measured at 800 m³/hr and 150 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

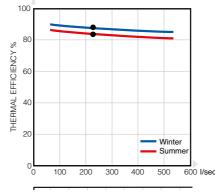




0 250 500 750 1000 1250 1500 1750 2000 m³/hr AIR FLOW



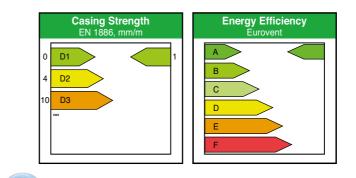


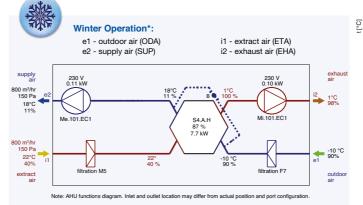


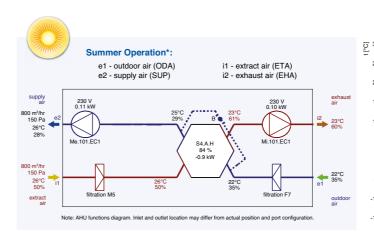
0 250 500 750 1000 1250 1500 1750 2000 m³/hr AIR FLOW

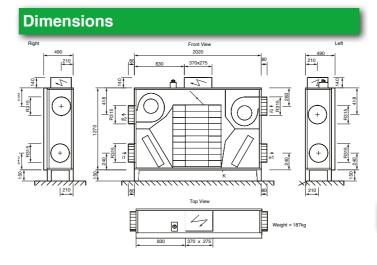
+ Excludes motors

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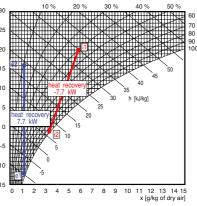


* The above figures are example performance measurements. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

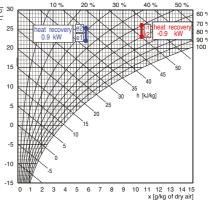








| Sup | Supply | | | | | | | |
|-----|-------------|--------|--------|--|--|--|--|--|
| | Description | t [°C] | rh [%] | | | | | |
| e1 | Outdoor Air | -10.0 | 90 | | | | | |
| e2 | Supply Air | 18.0 | 11 | | | | | |
| Exh | aust | | | | | | | |
| | Description | t [°C] | rh [%] | | | | | |
| i1 | Extract Air | 22.0 | 40 | | | | | |
| i2 | Exhaust Air | 10 | 100 | | | | | |



| ouppiy | | | | | | | |
|--------|-------------|--------|--------|--|--|--|--|
| | Description | t [°C] | rh [%] | | | | |
| e1 | Outdoor Air | 22.0 | 35 | | | | |
| e2 | Supply Air | 25.0 | 29 | | | | |
| Exh | | | | | | | |
| | Description | t [°C] | rh [%] | | | | |
| i1 | Extract Air | 26.0 | 50 | | | | |

i2 Exhaust Air 23.0 61

Supply

| Connections | Туре | Diameter | Accessories |
|-------------|-------------------|----------|--|
| e1 | Outdoor Air | Ø 315 mm | Shut-off Damper, Flexible Connector |
| e2 | Supply Air | Ø 315 mm | Flexible Connector |
| i1 | Extract Air | Ø 315 mm | Flexible Connector |
| i2 | Exhaust Air | Ø 315 mm | Flexible Connector |
| К | Condensate Outlet | Ø 21 mm | Condensate Trap |

Accessories

See Duplexvent accessories pages 204-206 for more details.

С

Flexi Line Side Entry - Up to 3000 m³/hr air volume



Key Features

- Extract up to 2600 m³/hr @ 200 Pa
- Excellent heat recovery efficiency, up to 95%
- Versatile unit positioning with floor and ceiling suspended mounting options
- Low SFP with energy saving EC fans
- Low noise, refer to NR35 and BB93 standards
- 10 speed digital control with internet and BMS
- Compliant to BREEAM, Passive House and **ErP 2015 regulations**
- 2 year warranty +

Performance

| Sound Power Level Lw (dB) | dB (A) | 63 | 125 | 250 | 500 | 1 k | 2 k | 4 k | 8 k |
|---------------------------|--------|----|-----|-----|-----|-----|-----|-----|-----|
| Outdoor air e1 | 45 | 60 | 58 | 46 | 36 | 33 | 29 | <25 | <25 |
| Supply air e2 | 68 | 81 | 77 | 72 | 61 | 60 | 56 | 51 | 48 |
| Extract air i1 | 44 | 59 | 58 | 45 | 35 | 32 | 28 | <25 | <25 |
| Exhaust air i2 | 67 | 81 | 77 | 71 | 60 | 59 | 55 | 50 | 47 |
| Breakout noise | 64 | 66 | 73 | 70 | 55 | 52 | 48 | 41 | 33 |
| Sound Pressure Level Ld | dB (A) | 63 | 125 | 250 | 500 | 1 k | 2 k | 4 k | 8 k |
| To the surrounding | 43 | 45 | 53 | 49 | 34 | 32 | 28 | <25 | <25 |

Sound pressure level is measured at 3m distance

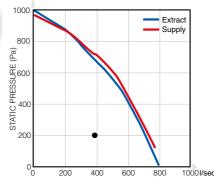
| · | | | |
|-------------------------------------|----------------------------|------------|-------------|
| Ventilation | | Supply Air | Extract Air |
| Maximum air volume @ 200 Pa | m ³ /hr / l/sec | 2600 / 722 | 2600 / 722 |
| | | | |
| Air volume @ 200 Pa* | m³/hr / l/sec | 1400 / 389 | 1400 / 389 |
| Nominal voltage | V | 230 | 230 |
| Voltage (at operation point)* | V | 230 | 230 |
| Nominal power (at operation point)* | W | 305 | 271 |
| Max connection power | W | 870 | 870 |
| Max current | А | 4.5 | 4.5 |
| Filters | | F7 | M5 |
| Fan type | | EC | EC |
| | | | |

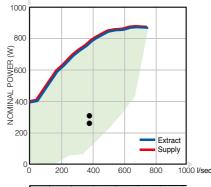
* Note: ● The figures above have been measured at 1400 m³/hr and 200 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.

| Heat Recovery | | Supply Air | Extract Air | |
|--------------------------------------|---------------|------------|-------------|--|
| Maximum air volume @ 200 Pa | m³/hr / l/sec | 2600 / 722 | 2600 / 722 | |
| | | | | |
| Air volume @ 200 Pa [*] | m³/hr / l/sec | 1400 / 389 | 1400 / 389 | |
| Temperature at inlet* | °C | -10 | 22 | |
| Temperature at outlet* | °C | 17 | 1 | |
| Humidity at inlet [*] | %rh | 90 | 40 | |
| Humidity at outlet* | %rh | 12 | 100 | |
| Thermal efficiency in winter / summe | r % | 84 / | 81 | |
| Performance in winter / summer | kW | 13.1 | / -1.6 | |
| Condensation | l/h | 4. | 2 | |
| Type of heat exchanger | | Counter Fl | ow, Plastic | |
| Part No. | | 9000069 | | |

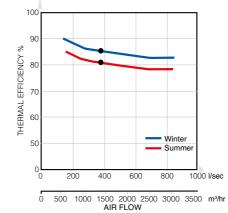
* Note:
The figures above have been measured at 1400 m³/hr and 200 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels





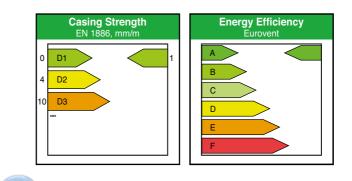


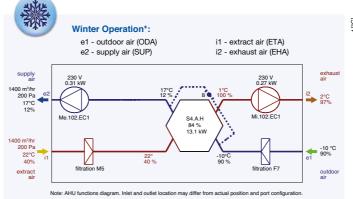


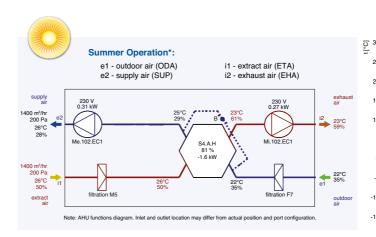


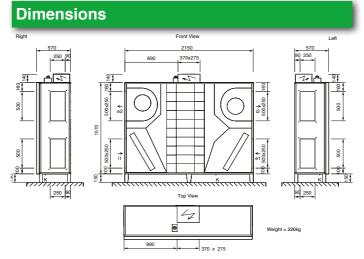
+ Excludes motors

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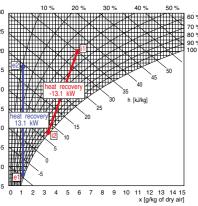


* The above figures are example performance measurements. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.



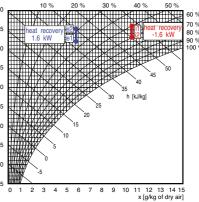






| Supply | | | | | | |
|---------|-------------|--------|--------|--|--|--|
| | Description | t [°C] | rh [%] | | | |
| e1 | Outdoor Air | -10.0 | 90 | | | |
| e2 | Supply Air | 17.0 | 12 | | | |
| Exhaust | | | | | | |
| | Description | t [°C] | rh [%] | | | |
| i1 | Extract Air | 22.0 | 40 | | | |

| | Description | 1 0 | 111 [/0] |
|----|-------------|------|-----------|
| i1 | Extract Air | 22.0 | 40 |
| i2 | Exhaust Air | 1.0 | 100 |
| | | | |



| Supply | | | | | | |
|---------|-------------|--------|--------|--|--|--|
| | Description | t [°C] | rh [%] | | | |
| e1 | Outdoor Air | 22.0 | 35 | | | |
| e2 | Supply Air | 25.0 | 29 | | | |
| Exhaust | | | | | | |

| | Description | t [°C] | rh [%] |
|----|-------------|--------|--------|
| i1 | Extract Air | 26.0 | 50 |
| i2 | Exhaust Air | 23.0 | 61 |

| Connections | ections Type Diameter | | Accessories |
|-------------|-----------------------|-----------------|--|
| e1 | Outdoor Air | 500 x 250 mm | Shut-off Damper, Flexible Connector |
| e2 | Supply Air | 500 x 250 mm | Flexible Connector |
| i1 | Extract Air | 500 x 250 mm | Flexible Connector |
| i2 | Exhaust Air | ir 500 x 250 mm | Flexible Connector |
| К | Condensate Outlet | Ø 21 mm | Condensate Trap |

Accessories

See Duplexvent accessories pages 204-206 for more details.

Flexi Line Side Entry - Up to 3800 m³/hr air volume



Key Features

- Extract up to 3600 m³/hr @ 200 Pa
- Excellent heat recovery efficiency, up to 95%
- Versatile unit positioning with floor and ceiling suspended mounting options
- Low SFP with energy saving EC fans
- Low noise, refer to NR35 and BB93 standards
- 10 speed digital control with internet and BMS
- Compliant to BREEAM, Passive House and **ErP 2015 regulations**
- 2 year warranty +



| Sound Power Level Lw (dB) | dB (A) | 63 | 125 | 250 | 500 | 1 k | 2 k | 4 k | 8 k |
|---------------------------|--------|----|-----|-----|-----|-----|-----|-----|-----|
| Outdoor air e1 | 50 | 67 | 65 | 46 | 36 | 35 | 28 | <25 | <25 |
| Supply air e2 | 70 | 71 | 83 | 72 | 62 | 61 | 54 | 48 | 53 |
| Extract air i1 | 50 | 66 | 65 | 45 | 38 | 34 | 28 | <25 | <25 |
| Exhaust air i2 | 69 | 69 | 82 | 71 | 61 | 59 | 53 | 47 | 52 |
| Breakout noise | 54 | 56 | 67 | 56 | 49 | 44 | 35 | <25 | <25 |
| Sound Pressure Level Ld | dB (A) | 63 | 125 | 250 | 500 | 1 k | 2 k | 4 k | 8 k |
| To the surrounding | 33 | 36 | 46 | 36 | 28 | <25 | <25 | <25 | <25 |

Sound pressure level is measured at 3m distance

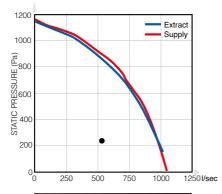
| Ventilation | | Supply Air | Extract Air |
|-------------------------------------|----------------------------|-------------|-------------|
| Maximum air volume @ 200 Pa | m ³ /hr / l/sec | 3600 / 1000 | 3600 / 1000 |
| | | | |
| Air volume @ 250 Pa* | m³/hr / l/sec | 2000 / 556 | 2000 / 556 |
| Nominal voltage | V | 400 | 400 |
| Voltage (at operation point)* | V | 400 | 400 |
| Nominal Power (at operation point)* | W | 446 | 397 |
| Max connection power | W | 1480 | 1480 |
| Max current | А | 2.4 | 2.4 |
| Filters | | F7 | M5 |
| Fan type | | EC | EC |

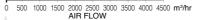
Note: • The figures above have been measured at 2000 m³/hr and 250 Pa. Please use the Duplexvent Selection Software to calculate measurements at other performance levels

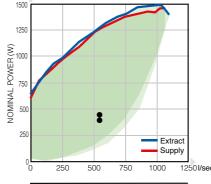
| Heat Recovery | | Supply Air | Extract Air | |
|--------------------------------------|---------------|-------------|-------------|--|
| Maximum air volume @ 200 Pa | m³/hr / l/sec | 3600 / 1000 | 3600 / 1000 | |
| | | | | |
| Air volume @ 250 Pa [*] | m³/hr / l/sec | 2000 / 556 | 2000 / 556 | |
| Temperature at inlet* | °C | -10 | 22 | |
| Temperature at outlet* | °C | 18 | 1 | |
| Humidity at inlet [*] | %rh | 90 | 40 | |
| Humidity at outlet* | %rh | 11 | 100 | |
| Thermal efficiency in winter / summe | r % | 88 / 84 | | |
| Performance in winter / summer | kW | 19.4 / -2.3 | | |
| Condensation | l/h | 6. | 5 | |
| Type of heat exchanger | | Counter FI | ow, Plastic | |
| Part No. | | 90000070 | | |

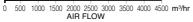
* Note:
The figures above have been measured at 2000 m³/hr and 250 Pa. Please use the Duplexvent Selection

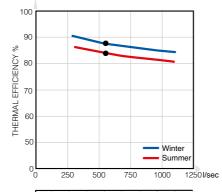






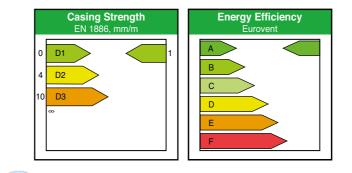


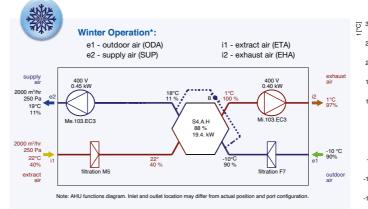


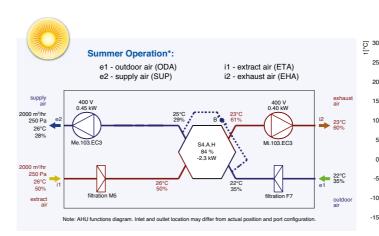


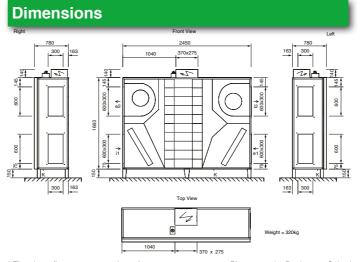
500 1000 1500 2000 2500 3000 3500 4000 4500 m³/hr AIR FLOW + Excludes motors

186







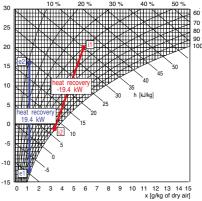


* The above figures are example performance measurements. Please use the Duplexvent Selection Software to calculate measurements at other performance levels.









| Supply | | | | | | |
|---------|-------------|--------|--------|--|--|--|
| | Description | t [°C] | rh [%] | | | |
| e1 | Outdoor Air | -10.0 | 90 | | | |
| e2 | Supply Air | 18.0 | 11 | | | |
| Exhaust | | | | | | |
| | Description | t [°C] | rh [%] | | | |
| i1 | Extract Air | 22.0 | 40 | | | |

i2 Exhaust Air 1.0 100

| D | | 10 % | 20 % | 30 % | 40 % | 50 % |
|---|-------|---------------|------|------------|-----------------------|-------------|
| | | s, N | | \searrow | | 60 % |
| 5 | heat | recovery | e2 | | i1 heat re | covery 80 % |
| | 2. | 3 kW | | | | 90 % |
| 0 | | ИЖ | ЖxЛ | XXX | | 100 |
| 5 | | ТXИ | XX | | | 50 |
| | ÌХ/ | ЖИЖ | | | 40 45 | |
| 0 | | | | 35 | | |
| 5 | | \mathcal{M} | | | [kJ/kg] | |
| 5 | | | 20 | | | |
| 0 | | | 15 | | | |
| | | 10 | D | | | |
| 5 | | 5 | | | | |
| n | | `0 | | | | |
| - | | -5 | | | | |
| 5 | | | | | | |
| | 0 1 2 | 345 | 567 | 8 9 10 | 11 12 13 x [g/kg o | |
| | | | | | 199 4 | |

| Sup | Supply | | | | | | |
|---------|-------------|--------|--------|--|--|--|--|
| | Description | t [°C] | rh [%] | | | | |
| e1 | Outdoor Air | 22.0 | 35 | | | | |
| e2 | Supply Air | 25.0 | 29 | | | | |
| Exhaust | | | | | | | |
| | Description | t [°C] | rh [%] | | | | |

| i1 Extract Air 26.0 50 i2 Exhaust Air 23.0 61 | | Description | . [0] | [/0] |
|--|----|-------------|--------|------|
| i2 Exhaust Air 23.0 61 | i1 | Extract Air | 26.0 | 50 |
| 12 Exhaust All 25.0 01 | i2 | Exhaust Air | 23.0 | 61 |

| Connections | Туре | Diameter | Accessories |
|-------------|-------------------|--------------|--|
| e1 | Outdoor Air | 600 x 300 mm | Shut-off Damper, Flexible Connector |
| e2 | Supply Air | 600 x 300 mm | Flexible Connector |
| i1 | Extract Air | 600 x 300 mm | Flexible Connector |
| i2 | Exhaust Air | 600 x 300 mm | Flexible Connector |
| К | Condensate Outlet | Ø 21 mm | Condensate Trap |

Accessories

See Duplexvent accessories pages 204-206 for more details.

Duplexvent MULTI

Heat Recovery Ventilation



Key Features

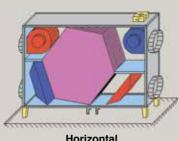
- Heat recovery ventilation
- 100% customisation
- 95% thermal efficiency
- Low energy EC fans
- Automatic circulation and 100% bypass
- Built-in heating / cooling coils
- 10 speed digital control
- Internet connection with BMS
- Outdoor versions available
- 2 year warranty +



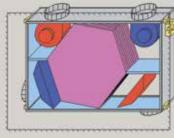
As a ventilation specialist we aim to provide ventilation solutions for commercial applications thanks to our broad range of Commercial Heat Recovery units in excess of 25,000 m³/hr air volume with the availability of indoor and outdoor versions.

To accomplish this goal, our Passive House approved, ex-stock Flexi Line units provide the highest thermal efficiency with immediate delivery whilst our customised Multi Line units match your specification in terms of installation flexibility, performance and quality by meeting the high air volume requirements for commercial and large industrial spaces. + Excludes motors

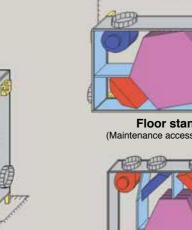
Multi Line Unit Configurations



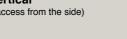
(Maintenance access from the side)



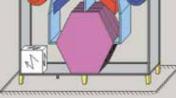
Ceiling suspended (Maintenance access from the bottom)



Vertical (Maintenance access from the side)





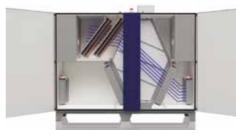


Upright (Maintenance access from the side)



100% customisation and short delivery time

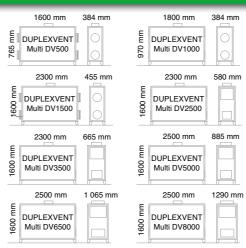
Multi Line MVHR units follow the business philosophy Despite the full customisation Multi Line units are of multiple variability. Designers can easily modify unit delivered in a period of 4 weeks or earlier to meet tight positions, spigot connections, filters, integral heating / project deadlines. cooling coils, bypass and circulation dampers using the selection software which accelerates the specification process and helps meet stringent project requirements.





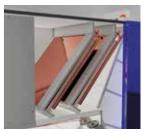
100% Bypass facility delivers cool, fresh and filtered air

Duplexvent Multi Size Range





Circulation damper helps regulate indoor temperature / humidity conditions



Built-in water / DX coils extra heating / cooling



Duplexvent MULTI



Low Energy, **Maintenance Free EC Fan Technology** ensures long term savings on operating costs

> **Pressure Sensors** for filter monitoring

Temperature Sensors for fully automatic operation of the summer bypass, frost protection and heater / cooler facilities

100% Summer **Bypass Facility** provides a flow of cool, fresh and filtered air into the property

Duplexvent MULTI

Multi Line Customised Indoor - Up to 9600 m³/hr air volume



Key Features

- Fully customised commercial units in 8 different sizes up to 9000 m³/hr at 200 Pa
- Excellent heat recovery efficiency, up to 95%
- Low SFP with energy saving EC fans
- Low noise, refer to NR35 and BB93 standards
- 10 speed digital control with internet and BMS
- Excellent thermal insulation (class T2, TB1)
- Optional circulation and bypass dampers
- BREEAM, EPDB and ErP 2015 compliant
- Meets Building Regulations Part L2A and L2B
- 2 year warranty

Performance

| Duplexvent Multi | | DV500 | DV1000 | DV1500 | DV2500 | DV3500 | DV5000 | DV6500 | DV8000 |
|---------------------------------------|------------------|-------------------------------|--------------|---------|---------|---------|---------|---------|---------------|
| Supply air - max.1 | m³/hr | 660 | 1200 | 2200 | 3400 | 4600 | 5750 | 7100 | 9600 |
| Extraction air - max.1 | m³/hr | 670 | 1150 | 1800 | 3200 | 4200 | 5500 | 7050 | 9100 |
| Heat recovery efficiency ² | % | | | | up to | 95% | | | |
| Fan type | | EC (backward curved impeller) | | | | | | | |
| Weight ³ | kg | 80-110 | 95-130 | 200-280 | 290-370 | 320-390 | 370-450 | 480-560 | 580-670 |
| Max power input | kW | 0.3 | 0.7 | 1.2 | 2.6 | 4.5 | 4.6 | 7.3 | 9.3 |
| Voltage | V | 230 | 230 | 230 | 400 | 400 | 400 | 400 | 400 |
| Frequency | Hz | | | | 5 | 0 | | | |
| RPM - max. | min ¹ | 4300 | 3350 | 2920 | 3000 | 2980 | 2400 | 2820 | 2560 |
| Heating output T - max.4 | kW | 5 | 14 | 22 | 30 | 42 | 51 | 71 | 88 |
| Cooling output CHW - max.4 | kW | 4 | 8 | 16 | 22 | 30 | 42 | 56 | 62 |
| Cooling output CHF - max.4 | kW | 3 | 6 | 10 | 13 | 25 | 32 | 41 | 50 |
| Part No. | | 9041571 | 9041572 | 9041573 | 9041521 | 9041522 | 9041523 | 9041524 | 9041525 |
| 1. Maximum flow rate at zero extern | al pressure | T - Water | heating coil | | | | | + | Excludes moto |

CHW - Water cooling coil

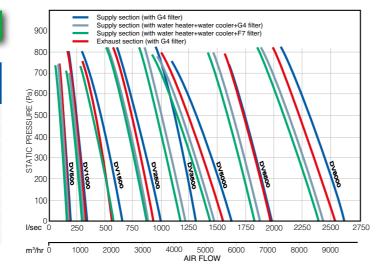
CHF - DX (direct evaporator) coil

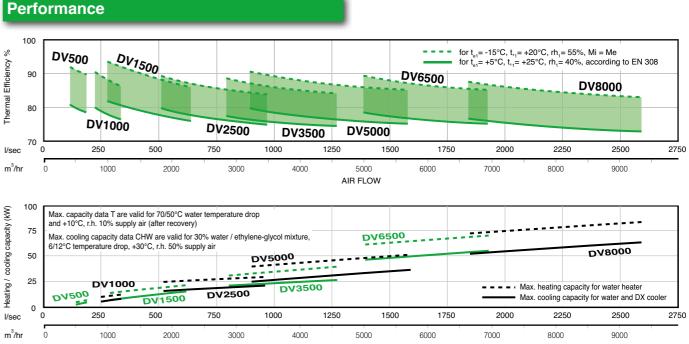
2. According to air volume 3. Depending on equipment

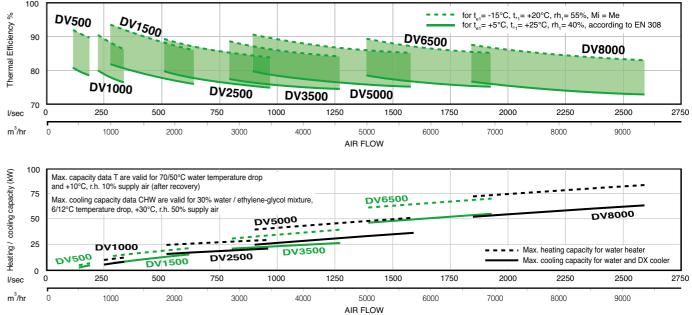
4. Depending on register type, liquid and flow rates

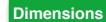
Acoustic power L_w and Acoustic pressure L

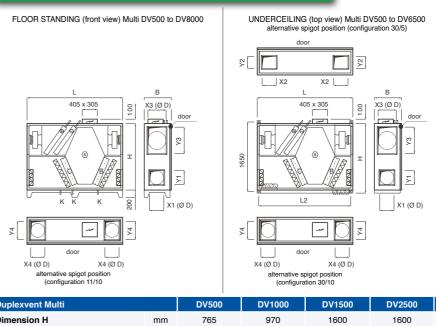
| Turne | Working | Acoustic power L _w [dB(A)] | | | | | Acoustic pressure |
|-------------------------|--------------------------------|---------------------------------------|----------------------|----------------------|----------------------|------|----------------------------------|
| Туре | point | inlet e ₁ | inlet i ₁ | inlet e ₂ | inlet i ₂ | unit | L _D [dB(A)] at 1 m |
| Duplexvent Multi DV500 | 500m ³ /hr (200Pa) | 53 | 67 | 80 | 82 | 59 | 48 |
| Duplexvent Multi DV1000 | 1000m3/hr (200Pa) | 66 | 65 | 86 | 86 | 63 | 52 |
| Duplexvent Multi DV1500 | 1500m3/hr (200Pa) | 58 | 60 | 83 | 83 | 64 | 53 |
| Duplexvent Multi DV2500 | 2500m3/hr (200Pa) | 59 | 55 | 80 | 79 | 70 | 59 |
| Duplexvent Multi DV3500 | 3500m3/hr (200Pa) | 61 | 60 | 92 | 89 | 70 | 59 |
| Duplexvent Multi DV5000 | 5000m ³ /hr (200Pa) | 64 | 65 | 88 | 88 | 73 | 62 |
| Duplexvent Multi DV6500 | 6500m ³ /hr (200Pa) | 70 | 72 | 96 | 95 | 76 | 65 |
| Duplexvent Multi DV8000 | 8000m3/hr (200Pa) | 76 | 75 | 99 | 96 | 70 | 59 |











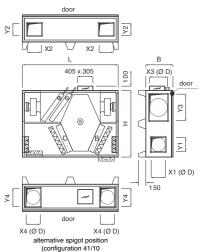
| Duplexvent Multi | | DV500 | DV1000 | DV1500 | DV2500 | DV3500 | DV5000 | DV6500 | DV8000 |
|---|----|------------------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Dimension H | mm | 765 | 970 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 |
| Dimension B | mm | 384 | 384 | 455 | 580 | 665 | 885 | 1065 | 1290 |
| Dimension L | mm | 1600 | 1800 | 2300 | 2300 | 2300 | 2500 | 2500 | 2500 |
| Dimension L2 | mm | 1652 | 1852 | 2270 | 2270 | 2270 | 2470 | 2470 | 2470 |
| Condensate drain K | mm | | Ø | 22 | | | Ø | 32 | |
| Connecting Ports | | | | | | | | | |
| Circular diameter D 1 | mm | 200 | 250 | 315 | - | - | - | - | - |
| Dimension X1 x Y1 (standard e ₁ , i ₁) | mm | - | - | - | 300 x 400 | 400 x 400 | 500 x 500 | 500 x 500 | 700 x 500 |
| Dimension X2 x Y2 (atypical e_1, i_1) | mm | 200 ² | 250 ² | 400 x 200 | 300 x 400 | 400 x 400 | 500 x 500 | 500 x 500 | - |
| Dimension X3 x Y3 (standard e ₂ , i ₂) | mm | - | - | - | 450 x 710 | 500 x 710 | 710 x 710 | 900 x 710 | 900 x 710 |
| Dimension X4 x Y4 (atypical e ₂ , i ₂) | mm | - | - | - | 250 x 355 | 250 x 400 | 355 x 630 | 355 x 800 | 355 x 900 |

1, For Duplexvent Multi DV500, DV1000, DV1500 2, For Duplexvent Multi DV500 and DV1000 only in ceiling - suspended version





FLOOR STANDING FLAT (top view) Multi DV500 to DV6500 alternative spigot position (configuration 41/5)



Duplexvent MULTI-N

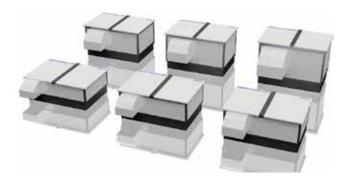
Heat Recovery Ventilation

Lift into Place

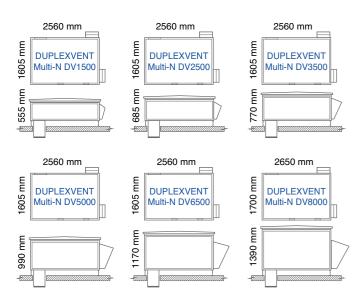
Ready for crane transport – special suspension points are included as standard for easy connection to a crane.

Easy Maintenance

Multi-N outdoor units are designed with continuous emphasis on service comfort. The units can be maintained via side access doors, without the need to open the unit doors.



Duplexvent Multi-N Outdoor Size Range



The height dimension is for units only (without the 400mm optional base frame)



Efficient Installation

Duplexvent MULTI-N outdoor units give the option of being installed directly on to the roof, or on a bespoke low profile, insulated base frame.

Using the stainless steel framed, highly insulated base, allows supply and extract air duct positions within the footprint of the unit. This modular, encapsulated set up reduces duct runs and does away with conventional duct insulation expence while giving a more energy efficent and easly installed unit.

Note: Bespoke insulated base frame is fitted with service axcess points.



Compact Size

One of the biggest Duplexvent Multi-N advantages is its compact size. Having an exceptionally low height, all units up to 5000 m³/hr are less than 1m high.



with 30 mm thick PIR insulation.

2. Air ducts with no energy loss - duct and installation cost savings.

3. Easy filter side changing

to ensure maximum service comfort.



4. Riser duct

6

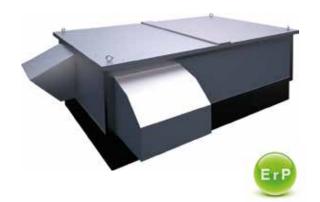
4

5. Riser duct

6. Side access doors

Duplexvent MULTI-N

Multi-N Line Customised Outdoor - Up to 8900 m³/hr air volume



Key Features

- Fully customised commercial units in 6 different sizes up to 8500 m³/hr at 200 Pa
- Excellent heat recovery efficiency, up to 95%
- Low SFP with energy saving EC fans
- Ready for crane support
- Optional insulated base frame reduces heat loss and duct runs
- Side doors for filter change and maintenance
- 10 speed digital control with Internet and BMS
- Optional circulation and bypass dampers
- BREEAM, EPDB and ErP 2015 compliant
- Meets Building Regulations Part L2A and L2B
- 2 year warranty

Performance

| Duplexvent Multi-N | | DV1500N | DV2500N | DV3500N | DV5000N | DV6500N | DV8000N |
|---|--------|----------------------|---------|--------------------|---------|---------|---------|
| Supply air - max. ¹ | m³/hr | 2500 | 3600 | 4700 | 5500 | 7200 | 8800 |
| Extraction air - max.1 | m³/hr | 2300 | 3650 | 4600 | 5550 | 7100 | 8900 |
| Heat recovery efficiency ² | % | | | to 9 | 95% | | |
| Fan type | | | EC (| backward curve imp | eller) | | |
| Weight ³ | kg | 290-350 | 350-480 | 405-480 | 460-560 | 520-630 | 630-750 |
| Max power input | kW | 1,5 | 2,5 | 4,4 | 4,1 | 6,7 | 8,9 |
| Voltage | V | 230 | 400 | 400 | 400 | 400 | 400 |
| Frequency | Hz | | | 5 | 60 | | |
| RPM - max. | min1 | 2920 | 3000 | 2980 | 2420 | 2820 | 2570 |
| Heating output T - max. 4 | kW | 18 | 27 | 36 | 46 | 67 | 75 |
| Cooling output CHW - max.4 | kW | 9 | 12 | 22 | 30 | 39 | 46 |
| Cooling output CHF - max.4 | kW | 10 | 13 | 25 | 37 | 41 | 50 |
| Part No. | | 9041533 | 9041534 | 9041535 | 9041536 | 9041520 | 9041532 |
| 1. Maximum flow rate at zero external press | sure T | - Water heating coil | | | | | |

2. According to air volume

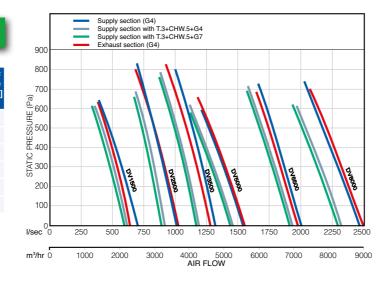
3. Depending on equipment

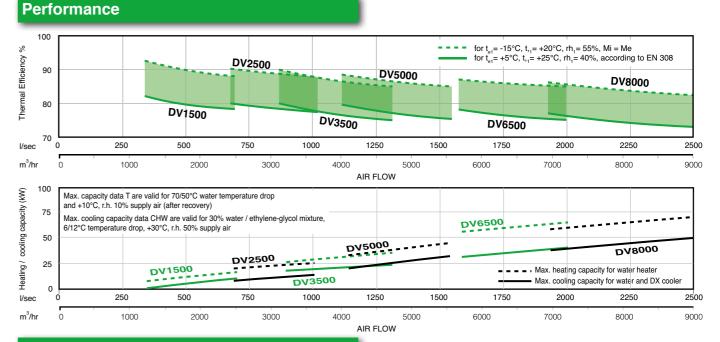
CHF - DX (direct evaporator) coil 4. Depending on register type, liquid and flow rates

CHW - Water cooling coil

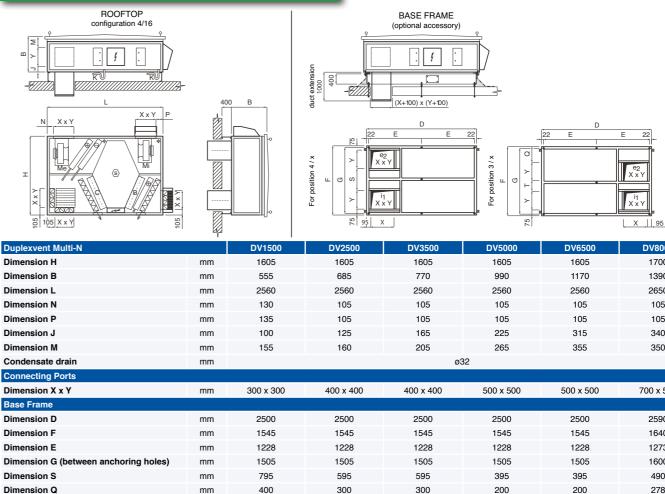
Acoustic power L_w and Acoustic pressure L_n.

| Туре | Working | Acc | oustic | power | L _w [dB | (A)] | Acoustic pressure |
|---------------------------|--------------------------------|----------------------|----------------------|----------------------|----------------------|------|----------------------------------|
| туре | point | inlet e ₁ | inlet i ₁ | inlet e ₂ | inlet i ₂ | unit | L _p [dB(A)] at 1 m |
| Duplexvent Multi-N DV1500 | 1500m3/hr (200Pa) | 57 | 57 | 87 | 88 | 61 | 50 |
| Duplexvent Multi-N DV2500 | 2500m3/hr (200Pa) | 58 | 58 | 82 | 82 | 61 | 50 |
| Duplexvent Multi-N DV3500 | 3500m ³ /hr (200Pa) | 59 | 59 | 87 | 88 | 59 | 48 |
| Duplexvent Multi-N DV5000 | 5000m ³ /hr (200Pa) | 69 | 69 | 89 | 89 | 63 | 52 |
| Duplexvent Multi-N DV6500 | 6500m ³ /hr (200Pa) | 73 | 73 | 95 | 95 | 66 | 55 |
| Duplexvent Multi-N DV8000 | 8000m ³ /hr (200Pa) | 67 | 67 | 80 | 80 | 71 | 60 |





Dimensions





+ Excludes motors

Dimension T

370

470

mm

| 00 | DV3500 | DV5000 | DV6500 | DV8000 |
|----|--------|--------|--------|--------|
| i | 1605 | 1605 | 1605 | 1700 |
| | 770 | 990 | 1170 | 1390 |
|) | 2560 | 2560 | 2560 | 2650 |
| | 105 | 105 | 105 | 105 |
| | 105 | 105 | 105 | 105 |
| | 165 | 225 | 315 | 340 |
| | 205 | 265 | 355 | 350 |
| | Ø | 32 | | |

| 00 | 400 x 400 | 500 x 500 | 500 x 500 | 700 x 500 |
|----|-----------|-----------|-----------|-----------|
| | | | | |
| | 2500 | 2500 | 2500 | 2590 |
| | 1545 | 1545 | 1545 | 1640 |
| | 1228 | 1228 | 1228 | 1273 |
| | 1505 | 1505 | 1505 | 1600 |
| | 595 | 395 | 395 | 490 |
| | 300 | 200 | 200 | 278 |
| | 370 | 270 | 270 | 287 |

Duplexvent ROTARY coming soon!

Rotary Wheel Ventilation with Heat Recovery System - up to 15 000 m³/hr air volume



Key Features

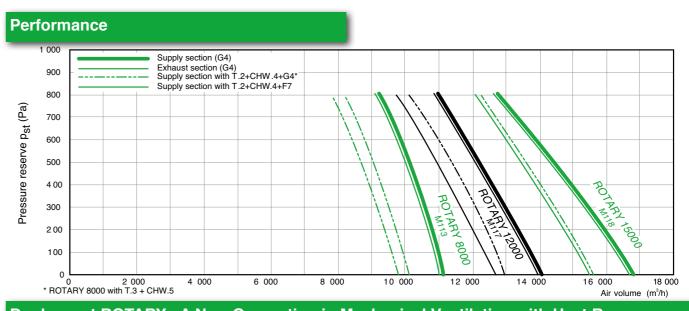
- 3 completely new designed units air volume from 8000 to 16000 m³/hr
- Easy assembly each unit delivered in 3 parts
- Customised units with a choice of duct orientations
- Indoor or rooftop versions
- Low SFP, high static pressure with significant energy savings from high efficiency EC fans
- All fans comply with ErP 2015
- Excellent heat recovery efficiency, up to 85%
- Thermal rotary wheel heat exchanger
- Double skin construction with 45mm mineral wool insulation to class T2, TB2
- Optional equipment: mixing damper, integrated heating or cooling coils, purge chamber
- BMS protocols: Modbus, TCP, (KNX, BACnet optional)
- VDI 6022, PassivHaus and Eurovent certification pending

The New Duplexvent ROTARY presents a significant advance in the compact construction of a high performance Mechanical Ventilation with Heat Recovery system.

Using the rotary thermal wheel principle, up to 85% heat recovery can be achieved in a range of units delivering up to 16,000m³/hr .Installation is simplicity itself as the unit is delivered in three separate and manageable components. By connecting the three modules together on-site, a choice of equipment locations is possible ensuring convenience and accessibility for routine filter replacement. Quiet in operation and using low energy EC motors the equipment is fully specified with a range of optional components and full BMS and internet connectivity







Duplexvent ROTARY - A New Generation in Mechanical Ventilation with Heat Recovery

Providing outstanding performance from within a compact shape. The modular construction comprises of separate supply and extract backward curve EC fan and filter boxes which abut up to the rotary thermal wheel heat exchanger. Easy to transport and install on site they combine to create an outstanding Mechanical Ventilation with Heat Recovery unit designed for a range of commercial and industrial applications.

The equipment casing is a twin skin construction with Multiple choice duct connectivity is a feature of ROTARY. high performance 45mm mineral wool core and a heat Supply and extract ports may be rotated by 90 degrees transfer characteristics of 0.037 W/mk.Thermal bridging is to facilitate on-site duct connections in limited access to class T2 with a heat bridge factor of TB2. Access doors spaces enabling connecting ducting to be configured in are provided for ease of filter maintenance. Utilising Ziehl accordance with the space and structure of the building.



BMS control interface is standard with Modbus TCP, (KNX and BACnet optional) protocols.

Alternatively the Duplexvent RD5 control system with internet connectivity may be specified to control remote equipment from a PC, Tablet or Smart phone



Abegg EC motors extremely low SFP values from 0.45W/ m³/h are achieved (dependant upon flow)

- Duplexvent ROTARY range
- ROTARY 8000 up to11000 m³/h
- ROTARY 12000 up to 14000 m3/h
- ROTARY 15000 up to 16000 m³/h



Duplexvent - Advanced Functionality and Control

Duplexvent - Selection Software

Motion-Blue Control System

Duplexvent Commercial Heat Recovery units are delivered with a choice of control options which enables complete functionality of the Flexi and Multi units.



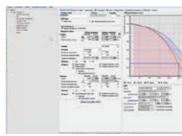
- Advanced control with digital display
- 10 speed EC fan control
- Automatic 100% bypass control for free cooling
- Daily / Weekly programme setting
- Filter monitoring via pressure sensors
- BMS connection (Modbus, Konnex, BACnet)
- Internet connection with user and service interfaces
- Frost protection facility (heater assisted)
- Outputs for electric / water heater and DX / water cooler
- Zonal ventilation control (winter / summer)
- Constant flow / pressure control
- Temperature control (based on extract or supply air) via 5 built-in temperature sensors
- air quality sensors



Our advanced and user friendly Duplexvent Selection After having chosen the unit and accessories you can Software makes it possible to select the most suitable select exactly what specification is needed for your product in just a few simple steps. project.

This freely available online software* gives a guick Technical specifications, air flow performance graphs, survey of the right choice of product and easy access to energy calculations, sound data and dimension drawings relevant technical information. are all produced using the software.

Quick and Easy Selection



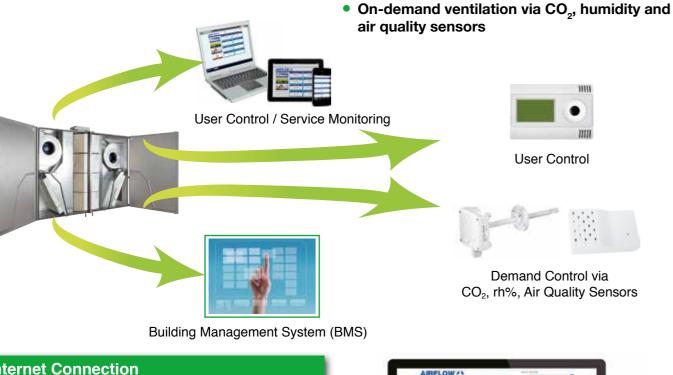
Operation:

- Input of technical parameters such as air volume, static pressure, temperature etc.
- Input of unit functions such as heating, cooling, air circulation, bypass etc.
- Automatic selection of the suitable ventilation unit

Unit Construction:

- Selection of unit configuration and spigot positions for the specified installation
- Detailed dimensions of the ventilation unit including the spigot size and maintenance

*The updated version of the selection software, which is updated every 6 months, can be found on our website airflow.com



Internet Connection

Duplexvent commercial units incorporate an Internet server that uses Modbus TCP/IP protocol to provide a connection between the ventilation unit and the internet via a standard plug and play ethernet cable.

This allows you to monitor and control the unit from a laptop via the internet or a local area network. The unit can also be monitored remotely by technical service which saves time and cost on service processes.







AHUs Selection Software



Visit: airflow.com/selectionsoftware

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|----------|------|
| | 5 II |
| | |

Software Outputs:

- Complete technical documentation including air path and HX diagrams
- Specification of the selected units and components with part numbers and prices



- Electrical wiring diagram with detailed information about supply voltage, rated current of the fans, fuses, cable connections etc.
- Data can be exported as doc, pdf or dxf (Autocad) format
- Product catalogue pages

Duplexvent - Versatile Solutions

Duplexvent - Versatile Solutions

Typical Applications

Nursery



Large Residential Properties



Schools and Colleges



Industrial Plants



Offices



Restaurants



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Retail
```



Public Areas



Typical Installations

MULTI DV1500



MULTI-N DV1500



MULTI-N DV5000



MULTI-N DV6500





FLEXI DV2600



FLEXI DV3600



MULTI-N DV3500

MULTI DV8000



Duplexvent Commercial Accessories

Flexi Line Accessories

| Part No. | Description | Product Image | DV1100 | DV1600 | DV2600 | DV3600 |
|-------------------------------|---|---|---------|---------|---------|---------|
| Extract air filte | r | | | | | |
| 90000174 | M5 filter | | ۲ | - | - | - |
| 9000083 | M5 filter | | - | ۲ | - | - |
| 9000085 | M5 filter | | - | - | ۲ | - |
| 90000139 | M5 filter | | - | - | - | \odot |
| Supply air filte | r | | | | | |
| 90000175 | F7 filter | | \odot | - | - | - |
| 9000084 | F7 filter | | - | ۲ | - | - |
| 9000086 | F7 filter | | - | - | ۲ | - |
| 90000140 | F7 filter | | - | - | - | ۲ |
| Flexible conne | ctor | (FIFE) | | | | |
| 90000169 | 250mm connection | CAR AN | \odot | - | - | - |
| 9000095 | 315mm connection | | | ۲ | | |
| 9000096 | 500 x 250mm connection | | - | - | ۲ | - |
| 90000134 | 600 x 300mm connection | | - | - | - | ۲ |
| Shut-off damp | er with spring return | 60 | | | | |
| 90000172 | 250mm connection | | \odot | - | - | - |
| 9000098 | 315mm connection | | - | \odot | - | - |
| 90000100 | 500 x 250mm connection | | - | - | \odot | - |
| 90000137 | 600 x 300mm connection | D | - | - | - | \odot |
| Shut-off damp | er without spring return | (and the second se | | | | |
| 90000181 | 250mm connection | | \odot | - | - | - |
| 9000097 | 315mm connection | The second se | - | \odot | - | - |
| 9000099 | 500 x 250mm connection | | - | - | \odot | - |
| 90000182 | 600 x 300mm connection | | - | - | - | \odot |
| Electric duct h | eater | | | | | |
| 90000173 | 3.0kW, 250mm connection | | \odot | - | - | - |
| 9000091 | 6.0kW, 315mm connection | | - | \odot | - | - |
| 9000092 | 10.5kW, 500 x 250mm connection | | | | \odot | |
| 90000138 | 13.5kW, 600 x 300mm connection | * | - | - | - | \odot |
| Water heating (floor standing | coil + duct temp. sensor position) | | | | | |
| 90000200 | 5.4kW at 60/40°C | | \odot | - | - | - |
| 90000202 | 7.8kW at 60/40°C | | - | \odot | - | - |
| 90000204 | 12.0kW at 60/40°C | | - | - | ۲ | - |
| 90000206 | 16.0kW at 60/40°C | V | - | - | - | ۲ |

Duplexvent Commercial Accessories

| Part No. | Description | Product Image | DV1100 | DV1600 | DV2600 | DV3600 |
|-------------------------------------|---|------------------|---------|---------|---------|---------|
| | coil + duct temp. sensor | Troductimage | DVIII00 | BYTOOD | B12000 | 575000- |
| (ceiling susper | | | | | | |
| 90000201 | 5.4kW at 60/40°C | | \odot | - | - | - |
| 90000203 | 7.8kW at 60/40°C | | | \odot | | |
| 90000205 | 12.0kW at 60/40°C | | - | - | \odot | - |
| 90000207 | 16.0kW at 60/40°C | | - | - | - | \odot |
| Hydraulic kit (w with mixing pur | ater heater) including 4-way valve np and actuator | 2 | | | | |
| 90000105 | Hydraulic kit for water heater | | ۲ | ۲ | \odot | \odot |
| | coil + duct temp. sensor + oard + free chamber position) | | | | | |
| 90000192 | 3.4kW at 6/12°C | | ۲ | - | - | - |
| 90000194 | 4.8kW at 6/12°C | | - | \odot | - | - |
| 90000196 | 7.5kW at 6/12°C | | - | - | \odot | - |
| 90000198 | 11.0kW at 6/12°C | | - | - | - | \odot |
| | coil + duct temp. sensor + oard + free chamber nded position) | | | | | |
| 90000193 | 3.4kW at 6/12°C | (A.K. | ۲ | - | - | - |
| 90000195 | 4.8kW at 6/12°C | | - | \odot | - | - |
| 90000197 | 7.5kW at 6/12°C | | - | - | \odot | - |
| 90000199 | 11.0kW at 6/12°C | | - | - | - | \odot |
| Hydraulic kit (v including 3-wa | vater cooler) y valve and actuator | | | | | |
| 90000161 | Hydraulic kit for water cooler | | \odot | \odot | \odot | \odot |
| | cooling coils + duct temp. sensor board (floor standing position) | | | | | |
| 90000184 | 5.4kW at 60/40°C, 3.4kW at 6/12°C | | ۲ | - | - | - |
| 90000186 | 7.8kW at 60/40°C, 4.8kW at 6/12°C | | - | ۲ | - | - |
| 90000188 | 12.0kW at 60/40°C, 7.5kW at 6/12°C | | - | - | ۲ | - |
| 90000190 | 16.0kW at 60/40°C, 11.0kW at 6/12°C | | - | - | - | \odot |
| | cooling coils + duct temp. sensor board (ceiling suspended position) | | | | | |
| 90000185 | 5.4kW at 60/40°C, 3.4kW at 6/12°C | | \odot | - | - | - |
| 90000187 | 7.8kW at 60/40°C, 4.8kW at 6/12°C | | - | \odot | - | - |
| 90000189 | 12.0kW at 60/40°C, 7.5kW at 6/12°C | | - | - | \odot | - |
| 90000191 | 16.0kW at 60/40°C, 11.0kW at 6/12°C | | - | - | - | \odot |
| RD-IO circuit b | oard | | | | | |
| 90000094 | Additional PCB (all units) | | ۲ | ۲ | ۲ | ۲ |
| DX coil (floor s | tanding position) | Statement in the | | | | |
| 90000178 | DX (direct expansion) coil | | ۲ | - | - | - |
| 90000147 | DX (direct expansion) coil | | - | \odot | - | - |
| 90000149 | DX (direct expansion) coil | | - | - | ۲ | - |
| 90000151 | DX (direct expansion) coil | | - | - | - | \odot |



Duplexvent Commercial Accessories

Flexi Line Accessories

| Notice 9000179Display <th>Part No.</th> <th>Description</th> <th>Product Image</th> <th>DV1100</th> <th>DV1600</th> <th>DV2600</th> <th>DV3600</th> | Part No. | Description | Product Image | DV1100 | DV1600 | DV2600 | DV3600 |
|---|---------------------------|-------------------------------------|--|---------|---------|---------|--------|
| 90000148 90000150 90000152 90000152 | DX coil (ceiling | g suspended position) | - | | | | |
| 90000150DX (direct expansion) coll $ -$ < | 90000179 | DX (direct expansion) coil | | ۲ | - | - | - |
| 90000152DX (direct expansion) colO90000180Free chamber $-$ <td< td=""><td>90000148</td><td>DX (direct expansion) coil</td><td></td><td>-</td><td>\odot</td><td>-</td><td>-</td></td<> | 90000148 | DX (direct expansion) coil | | - | \odot | - | - |
| Free chamber value / DX cooling coils90000180Free chamber \bigcirc 90000153Free chamber \bigcirc 90000154Free chamber \bigcirc 90000155Free chamber \bigcirc 90000155Free chamber \bigcirc \bigcirc -90000167Constant flow kit \bigcirc \bigcirc \bigcirc \bigcirc 90000167Constant flow kit \bigcirc \bigcirc \bigcirc \bigcirc 90000208Constant flow kit \bigcirc \bigcirc \bigcirc \bigcirc 90000208Constant pressure box \bigcirc \bigcirc \bigcirc \bigcirc 90000209VDI 6022 hygiene pack \bigcirc \bigcirc \bigcirc \bigcirc 9000030VDI 6022 hygiene pack \bigcirc \bigcirc \bigcirc \bigcirc 90000320Room rh (0-10v output) \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc 9000033Duct termp. (0-24v output) \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc 90000320Room rh (0-10v output) \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc 9000033Duct the (-10v output) \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc 9000313Duct rho \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc 90000185Room CO ₂ (0-10v output) \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc 90000313Duct CO ₂ (0-10v output) \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc 90000185Duct CO ₂ (0-10v output) <td>90000150</td> <td>DX (direct expansion) coil</td> <td></td> <td>-</td> <td>-</td> <td>\odot</td> <td>-</td> | 90000150 | DX (direct expansion) coil | | - | - | \odot | - |
| 9000180Free chamber \bigcirc $ -$ 9000153Free chamber \bigcirc $ -$ 9000154Free chamber $ -$ 9000155Free chamber $ -$ 9000155Free chamber $ -$ 9000155Constant flow kit $ -$ 9000167Constant flow kit $ -$ 90000167Constant pressure box $ -$ 9000008Constant pressure box $ -$ 9000090VD 6022 hygiene pack $ -$ </td <td>90000152</td> <td>DX (direct expansion) coil</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td>۲</td> | 90000152 | DX (direct expansion) coil | | - | - | - | ۲ |
| 90000153Free chamber \cdot \odot $ -$ <th< td=""><td>Free chamber</td><td>for water / DX cooling coils</td><td></td><td></td><td></td><td></td><td></td></th<> | Free chamber | for water / DX cooling coils | | | | | |
| 90000154Free chamber \odot $-$ 90000155Free chamber $ \odot$ \bigcirc \bigcirc 9000033Constant flow kit $ \bigcirc$ \bigcirc \bigcirc \bigcirc \bigcirc 9000033Constant flow kit $ \bigcirc$ \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc 9000034Constant flow kit $ \bigcirc$ \bigcirc <td>90000180</td> <td>Free chamber</td> <td></td> <td>۲</td> <td>-</td> <td>-</td> <td>-</td> | 90000180 | Free chamber | | ۲ | - | - | - |
| 90000155Free chamber $ \odot$ \odot <th< td=""><td>90000153</td><td>Free chamber</td><td></td><td>-</td><td>\odot</td><td>-</td><td>-</td></th<> | 90000153 | Free chamber | | - | \odot | - | - |
| Constant flow kit (including two pressure sensors) ○ | 90000154 | Free chamber | 1 1 | - | - | \odot | - |
| (including two pressure sensors) $(including two pressure sensors)(including two pressure sensor)(including two pressure sensor)$ | 90000155 | Free chamber | | - | - | - | ۲ |
| 90000167Constant flow kit | | | | | | | |
| Constant pressure box Image: Constant pressure box Image: Constant pressure box 90000208 Constant pressure box Image: Constant pressure box Image: Constant pressure box VDI 6022 hygiene pack Image: Constant pressure box Image: Constant pressure box Image: Constant pressure box 90000090 VDI 6022 hygiene pack Image: Constant pressure box Image: Constant pressure box Image: Constant pressure box 90000900 VDI 6022 hygiene pack Image: Constant pressure box Image: Con | 9000093 | Constant flow kit | | ۲ | ۲ | ۲ | - |
| 90000208Constant pressure box○○○○○VDI 6022 hygiene pack with inclined two manometers○○○○○○90000090VDI 6022 hygiene pack Duct temperative sensor○○○○○○○90000089Duct temp. (0-24v output)○○○ | 90000167 | Constant flow kit | 00 | - | - | - | ۲ |
| VDI 6022 hygiere pack with inclined tubers Image: state | Constant pres | sure box | | | | | |
| with inclined two manometersNote that the sense of the sen | 90000208 | Constant pressure box | 0 | \odot | ۲ | ۲ | ۲ |
| Duct temperatureImage: SensorImage: Sensor90000089Duct temp. (0-24v output) \odot \odot \odot \odot \odot Room humidity = msor \odot \odot \odot \odot \odot \odot 90000320Room rh (0-10v output) \odot \odot \odot \odot \odot \odot 90000313Duct rh (0-10v output) \Box \Box \odot \odot \odot \odot 90000366Room CO ₂ (0-10v output) \Box \Box \odot \odot \odot \odot 9000165Duct CO ₂ (0-10v output) \Box \Box \Box \Box \Box \odot 9000165Duct CO ₂ (0-10v output) \Box \Box \Box \Box \Box 9000165Duct CO ₂ (0-10v output) \Box \Box \Box \Box \Box 9000165Duct CO ₂ (0-10v output) \Box \Box \Box \Box \Box | | | • **** • • | | | | |
| 90000089Duct temp. (0-24v output)Image: Constraint of the sector | 9000090 | VDI 6022 hygiene pack | | ۲ | ۲ | ۲ | ۲ |
| Room humidity sensorImage: sensor sensor90000320Room rh (0-10v output) | Duct temperat | ure sensor | | _ | | | |
| 90000320Room rh (0-10v output)Image: Solution output) <thimage: output)<="" solution="" th=""><th< td=""><td>9000089</td><td>Duct temp. (0-24v output)</td><td></td><td>\odot</td><td>۲</td><td>۲</td><td>۲</td></th<></thimage:> | 9000089 | Duct temp. (0-24v output) | | \odot | ۲ | ۲ | ۲ |
| Duct humidity ⇒nsor Image: second secon | Room humidit | y sensor | 14141 | _ | | | |
| 90000313 Duct rh (0-10v output) Image: Comparison of the co | 90000320 | Room rh (0-10v output) | | \odot | ۲ | ۲ | ۲ |
| Room CO₂ senser Room CO₂ (0-10∨ output) Image: Color output | Duct humidity | sensor | S. 8- | | | | |
| 90000166 Room CO₂ (0-10v output) Image: CO₂ sensor Imag | 90000313 | Duct rh (0-10v output) | 1 | ۲ | ۲ | ۲ | ۲ |
| Duct CO2 sensor Image: CO2 (0-10v output) Image: CO2 (0-10 | Room CO ₂ sen | sor | 1.1.1 | _ | | | |
| 90000165 Duct CO₂ (0-10v output) ⊙ ⊙ ⊙ ⊙ Room air quality sensor | 90000166 | Room CO ₂ (0-10v output) | | ۲ | ۲ | ۲ | ۲ |
| Room air quality sensor | Duct CO ₂ sens | or | S. 8- | | | | |
| | 90000165 | Duct CO ₂ (0-10v output) | and the second s | \odot | ۲ | ۲ | ۲ |
| 90000321 Room air quality (0-10v output) Image: Constraint of the second secon | Room air quali | ity sensor | 14141 | | | | |
| | 90000321 | Room air quality (0-10v output) | | ۲ | ۲ | Θ | ۲ |



Customer Services 01494 560800



Ventilation with Heat Recovery Helping create a fresher, healthier,

DUPLEXVENT[®]

DV96SE

Air Flow Solutions





indoor enviroment and saving energy too!



- Over 90% Heat Recovery
- Low energy EC fans
- TRIPLE filter design
- 100% bypass
- 8 speed digital control
- 5 year warranty*
- Off the shelf delivery
- Complies with Building Regulations

DV145SE





*Excluding motors

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| AirflexPro Ducting |
|-------------------------------------|
| Airflex Retro Ducting |
| Airflex Ducting |
| Airflat Ducting |
| Air Round Ducting |
| Airflex ISO Ducting |
| Grilles and Valves |
| Roof Cowls, Slates and Traps |
| Venting Kits |
| Fire Stops |
| Remote Switches, Controls & Sensors |
| Commercial Ean Speed Controllers |
| Commercial Fan Speed Controllers |

Acoustic Accessories

- Zero leakage semi rigid ducting
- Discreet coving ducting
- Versatile range of flexible ducting
- 204mm x 60mm low profile channel ducting
- Round rigid ducting
- Pre-insulated ducting
- A range of terminal grilles and valves
- A range of roof terminal solutions
- A range of kits for connection from fan to terminal
- A range of fire stopping products to prevent smoke or fire passing through duct systems
- A range of remote switches, controllers and sensors to control your Airflow fan
- A range of speed controllers to 100% control commercial/ industrial fans
- A range of Acoustic accessories

AirflexPro

Semi rigid ducting



Key Features

- Zero leakage ensures highest performance
- 70% time saving on installation
- Interchangeable ducting system (75mm round / 51mm x 114mm oval) without any hydraulic pressure loss
- Compact, suits narrow joists and low ceiling voids
- Durable with high crushability (13 kN/m²)
- Smooth bore with antistatic and antibacterial lining
- Easy to clean when installed
- SAP Appendix Q eligible ducting (non-jointed)

Mix and Match, "Oval or Round" = No loss of Performance

A quick and easy to fit system of semi-rigid ducting that The AirflexPro Oval ducting is designed to equal the can result in up to 70% time saving during the on-site installation process, compared to rigid or spiral duct methods.

This innovative system uses low resistance and antibacterial smooth round and oval tubes which connect each room to the heat recovery or ventilation unit via an air distribution box.

hydraulic Performance of Airflex Pro Round so both types can be used within the same system without a loss of performance.

Semi rigid ducting without joints. Performance data is now recognised by the U.K Government as an input for Standard Assessment Procedure (SAP) calculations via Appendix Q.

AirflexPro Duct Pressure Loss (75mm Round / 51mm Oval)

| Air Velocity M/s | Air Volume M ³ /h | Resistance Pa/Mtr |
|------------------|------------------------------|-------------------|
| 0.5 | 6 | 0 |
| 1 | 11 | 0.5 |
| 1.5 | 17 | 0.8 |
| 2 | 22 | 1.5 |
| 2.5 | 28 | 2.2 |
| 2.7 | 30 | 3 |
| 3 | 33 | 4 |
| 3.5 | 39 | 5 |
| 4 | 45 | 6 |
| | | |

Accessories

AirflexPro Clips

Round and oval ducting clips



AirflexPro Round and Oval Ducting Clips

Flexible, innovative, meeting industry best practice These compact ducting clips have been standards for installation. AirflexPro Round and Oval specifically designed to securely fix both AirflexPro clips are the only professional solution for fitting SAP Round and Oval Ducting systems. In narrow or Appendix Q eligible, AirflexPro Round and Airflex Oval confined areas, while keeping ducting off the building Zero Leakage duct systems. fabric to reduce noise transmission, they should be spaced at 750mm intervals to keep AirflexPro / Airflex Oval neat and tidy on installation in accordance with NHBC quidance 3.2.





| Model | Α | В | С | D | Е | F | G |
|-------------------|------|-----|-----|----|---|---|------|
| Airflex Pro Round | 89.9 | 125 | 103 | 25 | 3 | 3 | 83.3 |
| Airflex Pro Oval | 56.3 | 166 | 144 | 25 | 3 | 3 | 49.8 |

AirflexPro **Oval Ducting**

Part No. Description 90000255 20m coil (oval) Dimensions 51mm x 114mm





Part No. Description 9041130 50m coil (round Dimensions 75mm O/D

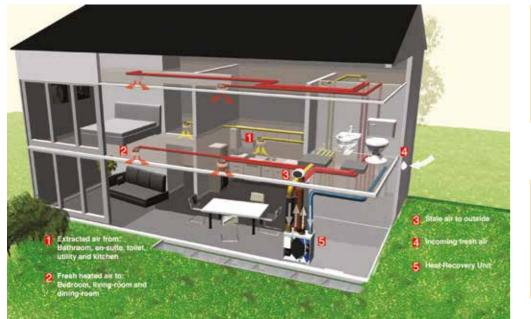


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Key Features

- Securely fixes both Airflex Pro Round and **AirflexPro Oval Duct**
- Compact height allows duct fixing within narrow joist areas and low ceiling voids
- To NHBC MVHR Guidance 3.2
- Single person installation
- Keeps Aiflex Pro Round / Oval taut and neat on installation
- SAP Appendix Q eligible zero leakage ducting
- Keeps ducting off building fabric to reduce noise transmittal

Typical System 4 (MVHR)

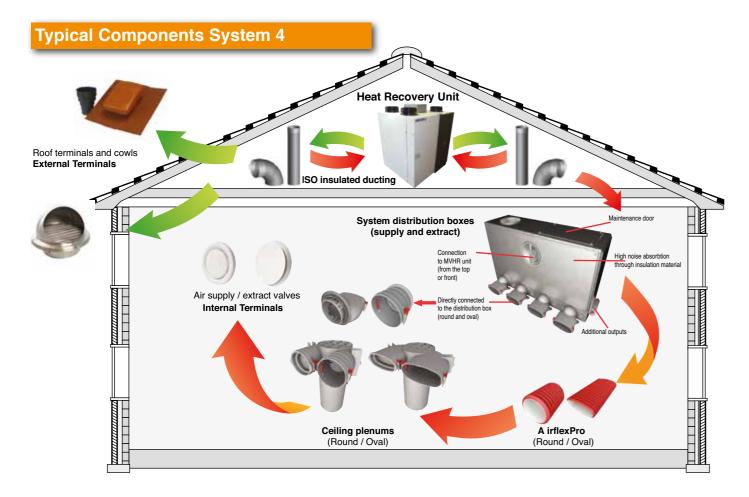




Typical AirflexPro installation showing the transition between oval and round without increasing the system pressure



Distribution box with oval pipes going through the floor, input from the bottom







Accessories

AirflexPro Accessories

| | | | applications. | | |
|------------|---|------------------|---|-----------|---|
| Hygienic | Caps | Straight 0 | Connection | 90° Com | pact Elbow |
| Part No. | Dimensions | Part No. | Dimensions | Part No. | Dimensions |
| 9041131 | Hygienic cap for Airflex Pro round (pack of 10) | 9041132 | Connects Airflex Pro round to Airflex Pro round | 9041139 | 75mm dia allows very small bend radius of duct |
| | | | | | > |
| Straight C | ceiling Outlet | 90° Floor | Outlet | 90° Wall | Outlet |
| Part No. | Dimensions | Part No. | Dimensions | Part No. | Dimensions |
| 9041141 | 2 spigots for 75mm piping and one spigot (125mm) for extract or supply valve | 9041142 | 2 spigots for 75mm piping and one spigot (140mm) for floor grille (9041174) | 9041144 | 2 spigots for 75mm piping and 200mm x 50mm opening for wall grille (9041175) |
| \$ | | | | Ì | |
| Straight V | Vall Outlet | Brushed S | tainless Steel Floor Grille | 90° Floor | Outlet – Round |
| Part No. | Dimensions | Part No. | Dimensions | Part No. | Dimensions |
| 9041143 | 2 spigots for 75mm piping and 200mm x 50mm opening for wall grille (9041175) | 90000440 | 300 x 100mm Suitable for outlets 90000441 and 90000525 | 90000441 | 2 Spigots for 75mm piping suitable for stainless steel floor grille 90000440 |
| | | | | | |
| 90° Wall/F | loor/Ceiling Outlet-Oval | White Pov | vder Coated Grilles | Brushed | stainless steel grilles |
| Part No. | Dimensions | Part No. | Dimensions | Part No. | Dimensions |
| 90000525 | 2 Spigots for 54 x 114mm | 90000526 | Slotted | 90000529 | Slotted |
| | Oval piping suitable for grilles 90000440/9000052 | 90000527 | Squared | 90000530 | Squared |
| | 690000527/90000528 90000529/90000530 & 90000531 | 90000528 | Wavy All suitable for 90000525 | 90000531 | Wavy All suitable for 90000525 |
| | - | | Slotted Squ | lared | Wavy |

| ions | Part No. |
|--------------------|----------|
| s for 75mm piping | 9041142 |
| spigot (125mm) | |
| ct or supply valve | |







| Straight C | connection | | 90° Comp | bact Elbow |
|------------|---|-------|------------|---|
| Part No. | Dimensions | | Part No. | Dimensions |
| 9041132 | Connects Airflex Pro round to Airflex Pro round | | 9041139 | 75mm dia allows very small bend radius of duct |
| | | | | \mathbf{i} |
| 90° Floor | Outlet | | 90° Wall (| Outlet |
| Part No. | Dimensions | | Part No. | Dimensions |
| 9041142 | 2 spigots for 75mm piping and one spigot (140mm) for floor grille (9041174) | | 9041144 | 2 spigots for 75mm piping and 200mm x 50mm opening for wall grille (9041175) |
| | | | | |
| Brushed S | tainless Steel Floor Grille | | 90° Floor | Outlet – Round |
| Part No. | Dimensions | | Part No. | Dimensions |
| 90000440 | 300 x 100mm Suitable for outlets 90000441 and 90000525 | | 90000441 | 2 Spigots for 75mm piping suitable for stainless steel floor grille 90000440 |
| | | | | |
| White Pov | vder Coated Grilles | | Brushed s | stainless steel grilles |
| Part No. | Dimensions | | Part No. | Dimensions |
| 90000526 | Slotted | | 90000529 | Slotted |
| 90000527 | Squared | | 90000530 | Squared |
| 90000528 | Wavy All suitable for 90000525 | | 90000531 | Wavy All suitable for 90000525 |
| | Slotted Squ | lared | 5000000 | Wavy |

This range of AirflexPro accessories enable connection to the ventilating unit and also transformation from AirflexPro Round to val Duct to suit all ventilation opplicatio

AirflexPro Accessories

| Sealing R | lings Oval |
|-----------|--|
| Part No. | Dimensions |
| 90000254 | 54 x 117mm dia Airflex Pro Oval Sealing |
| | Ring (pack of 10) |



This range of AirflexPro accessories enable connection to the ventilating unit and also transformation from AirflexPro Round to Oval Duct to suit all ventilation applications.

Part No.

Part No.

90000267

Spare Holding Clips

Sealing Rings Round Dimensions Part No. 9041133 75mm dia. Airflex Pro Round Sealing Ring (pack of 10)

Dimensions

54 x 117mm Sealing Cap

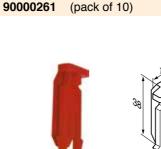
for Airflex Pro Oval

Ceiling / Wall Plenum

Sealing Cap Oval

Part No.

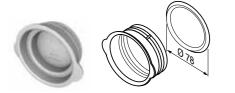
90000257



Dimensions

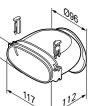
Sealing Cap Round

Part No. Dimensions 90000256 78mm Sealing Cap for Airflex Pro Round Ceiling / Wall Plenum



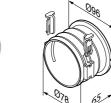
| Oval Spig | Oval Spigot Connection | | | | | |
|-----------|------------------------|--|--|--|--|--|
| Part No. | Dimensions | | | | | |
| 90000259 | Oval Spigots for | | | | | |
| | Distribution Boxes | | | | | |

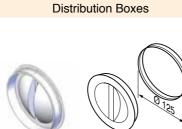






Round Spigot Connection





Sealing Cap for Distribution Box

Dimensions

125mm Inlet Seal for

| Bayonet Cap - Distribution Box | | | | | | |
|--------------------------------|---|--|--|--|--|--|
| Part No. | Dimensions | | | | | |
| 90000258 | 96mm Sealing Cap for Spigot Holes in Distribution Boxes | | | | | |

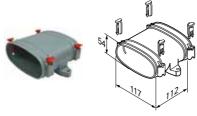


Accessories

AirflexPro Accessories

| Straight C | 9 | |
|------------|--|---|
| Part No. | Dimensions | I |
| 90000253 | 54 x 117mm Straight Connector (oval-oval) | ę |

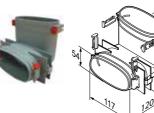
90° Vertical Transition Piece Part No. Dimensions 90000251

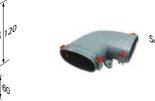




| 90° Vertical Elbow | | |
|--------------------|--|--|
| Part No. | Dimensions | |
| 90000247 | 54 x 117mm vertical elbow (oval-oval) | |
| | | |

90° Horizontal Elbow Part No. Dimensions 90000248 54 x 117mm





| Ceiling or Wall Plenum Oval | | |
|-----------------------------|-----------------------|--|
| Part No. | Dimensions | |
| 90000249 | 54 x 117mm 90° | |
| | Ceiling / Wall Plenum | |

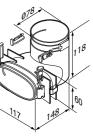




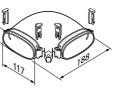
 Connects AirflexPro Round or Oval through the ceiling to the extract / supply valve. Can be cut down for varying height of void.



90° Verticle Transition Piece (round-oval)



horizontal elbow (oval-oval)

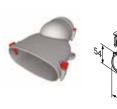


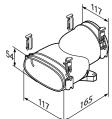
Ceiling or Wall Plenum Round

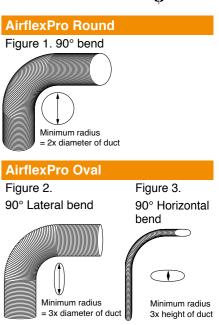
Dimensions

Straight Transition Piece

| Part No. | Dimensions |
|----------|---------------------------|
| 90000252 | Straight Transition Piece |
| | (round-oval) |





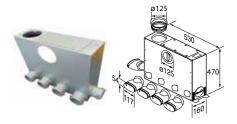


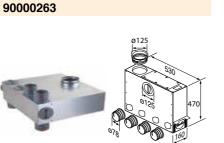
 AirflexPro Round and Oval semi rigid ducting performance data is recognised by the U.K Government as an input for the Standard Assessment Procedure (SAP) calculation via Appendix O, Fig 1-2 and 3 show how in this configuration without joints AirflexPro round and oval semi rigid ducting achieves the mechanical properties requirements set out in SAP Appendix Q. specifications.

AirflexPro Distribution Boxes

Provides primary distribution point for AirflexPro Round and Oval Ducting from the Heat Recovery / or Ventilation unit from 5 to 15 ports with various dimensions and discharge positions.

| 5-Port Dis | 5-Port Distribution Box (oval) | | | | |
|------------|--------------------------------|--|--|--|--|
| Part No. | Dimensions | | | | |
| 90000262 | | | | | |





5-Port Distribution Box (round)

Dimensions

Part No.

Part No.

90000270



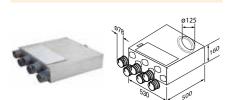


10-Port Distribution Box (round)

6-Port In-Line Distribution Box (round)

Part No. Dimensions

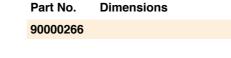
90000264

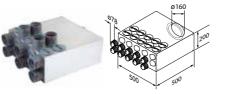




10-Port Distribution Box (oval)

Dimensions

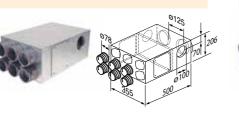




| 15-Port Distribution Box (round) | | | | |
|----------------------------------|------------|--|--|--|
| Part No. | Dimensions | | | |
| 90000269 | | | | |



|) | Combi Distribution Box (L/H) | | | | | |
|---|------------------------------|--|--|--|--|--|
| | Part No. | Dimensions | | | | |
| | 90000443 | Enables supply and extract simultaneously connects to Airflex Pro round 75mm (up to 6 spigots) inlet 125mm | | | | |



handed inlet

Combi Distribution Box (R/H)

Part No. Dimensions 90000444 Enables supply and extract simultaneously connects to Airflex Pro round 75mm (up to 6

spigots) inlet 125mm handed inlet



Typical Installations

Testimonials

As a contractor working throughout the UK installing residential HVAC equipment in new and refurbishment houses I have no hesitation in recommending AirflexPro for the ventilation ducting systems.

The quality of material is second to none and the flexibility of ducting made it possible to install very quickly even in narrow spaces. 55

Director of Cotswold Efficient Energy Centre

- Voted 2010 National Renewable Project of the Year H & V Awards
- Voted 2010 National Renewable Energy Company of the Year B.R.E. Award







The installation went according to plan and the whole system is working very well... Thanks for your excellent service! 5

Quantity Surveyor at Miller Homes





Specification of AirflexPro has added value and raised the standard of the ventilation system throughout the dwelling, while contributing to a lower carbon environment for the homeowner. 🤧

Project Manager at Millgate Homes



I am very pleased with your semi-rigid ducting which I've begun using immediately. I am particularly impressed with its ability to quickly fit to each component, and also its leak-proof design thanks to the easy-to-fit sealing rings. The Airflex Pro ducting has already paid for itself in time saved! **

Design Architect at Persimmon Homes







Airflex Retro

Discreet coving ducting



Retro Ducting System

This versatile and innovative ducting is designed around a coving system that can be incorporated within the visible part of the house or flat and is ideally suited to a standard footprint building design where there is a common entrance hallway with all the rooms branching off the hallway.

Key Features

- Designed for both new build and renovation projects
- Easy installation in 3 steps
- 40% saving on installation time over conventional ducting systems
- COANDA effect supply valves enable a better range of circulating ventilation
- Imminently suitable for standard footprint building design
- Can be painted to suit inside décor of dwelling
- Negates the need for suspended ceiling to hide the ducting system
- Fire retardent to EU-B2 rating DIN 4102

Retro ducting is lightweight, versatile and easy to fit making it the perfect choice for a discreet coving ducting application. This system can be used for System 4(Mechanical Ventilation with Heat Recovery) in a supply and extract function and also System 3 (Mechanical Extract Ventilation) as an extract only duct system.

| Combinat | Combination Distribution Box Combination Distribution Box | | Duct with | Stucco Profile | |
|----------------------------------|---|-----------------------------------|--|-----------------------------------|--------------------------|
| Supply Ai | r Right | Supply Air Left | | Part No. | Description |
| Part No. | Description | Part No. | Description | 90000277 | 1m length (box of 4) |
| 90000275 | 125 / 100 / 100mm dia | 90000276 | 125 / 100 / 100mm dia | | |
| | 0 | | | | |
| | nector Set | T-Piece w | ith Stucco Profile | Short Cor | anector |
| | nector Set | | ith Stucco Profile | Short Cor | |
| Long Con Part No. 90000278 | nector Set Description 100mm (with clamp) | T-Piece w Part No. 90000279 | ith Stucco Profile Description 100 / 100 / 100mm dia (box of 4) | Short Cor Part No. 90000280 | Description 100mm dia |

Accessories

| Inner Ang | Ie with Stucco Profile | Distributi | on Box Sealing Cap | Outer Ang | gle with Stucco Profi |
|-----------|----------------------------|------------------|----------------------------|-----------|-------------------------------------|
| Part No. | Description | Part No. | Description | Part No. | Description |
| 90000281 | 100 / 100mm dia (box of 2) | 90000282 | 100mm dia | 90000283 | 100 / 100mm dia (box of |
| | 0 | | | | 0 |
| Wall Coni | necting Pipe | Coanda Va | alve for Supply | Retro Sys | tem Supply/Extract Va |
| Part No. | Description | Part No. | Description | Part No. | Description |
| 90000284 | 100mm dia PVC | 90000285 | 100mm dia | 90000315 | C/W filter (9000317) 10 |
| | | | | | |
| Retro Sys | tem Supply/Extract Valve | Duct with | Square Profile | T Piece w | ith Square Profile |
| Part No. | Description | Part No. | Description | Part No. | Description |
| 90000439 | C/W filter (9000317) 100ø | 90000445 | 1m length (box of 4) | 90000446 | 100 / 100 / 100mm dia (box of 4) |
| | | | | | NO |
| Inner Ang | le with Square Profile | Outer Ang | gle with Square Profile | | |
| Part No. | Description | Part No. | Description | | |
| 90000447 | 100 / 100mm dia (box of 2) | 90000448 | 100 / 100mm dia (box of 2) | | |
| | 0 | | C | | |
| | | 140 | 1000 | | |







airflow.com

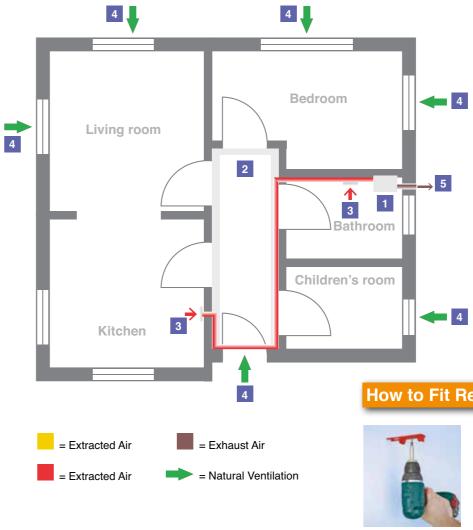
How Retro Ducting Works (System 4 - MVHR)

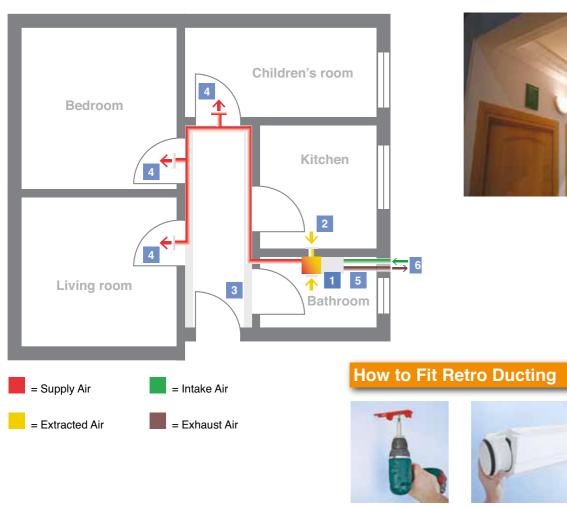
- 1. Linked to an Airflow Duplexvent Domestic Heat Recovery unit that saves heat from indoors and transfers it to incoming fresh air providing an excellent indoor air quality.
- 2. Unique Retro Duct combination distribution box collects extracted "stale, moist" air from kitchen and bathroom whilst distributing fresh air to bedrooms and living rooms. It also absorbs some of the sound from different rooms that can be transmitted through the ventilation system.
- 3. Retro Ducting made from compressed EPS, looks part of the inside décor of the house as it carries the building ventilation air to and from its destination. The fixing clamps and circle system make installation a simple 3 step process.
- 4. Stylish 'COANDA' effect Retro air valves for supply and extract. The aerodynamic phenomenon known as the COANDA effect in conjunction with strategic placement of these air valves causes the supply air from the valve to 'stick' longer to the surface of the ceiling allowing it to be thrown further across the room before it drops at the same velocity that it would if the valve was in free air. This enables a better range of circulating ventilation in the supplied rooms ensuring a high level of good indoor air quality.
 - 5. Supply / extract to Heat Recovery unit achieved through Airflow ISO - pre insulated piping (page 223).
 - 6. Supply / extract to outside air.

Accessories

How Retro Ducting Works (System 3 - MEV)

- 1. Linked to an Airflow Mechanical Extract Ventilation 4. Natural ventilation replaces extracted stale / moist air (MEV) unit that extracts from moisture producing or wet through window sills, trickle vents and doors. rooms allowing fresh air in via natural ventilation.
- 2. Retro Ducting made from compressed EPS, looks part of the inside décor of the house as it carries the building ventilation from its source. The fixing clamps and circle system make installation a simple 3 step process.
- 3. Extract valves combine a low profile stylish front for extraction of air from required areas. This enables a good range of circulating ventilation as extracted air is replaced through natural ventilation.





Step 1

Step 3

Step 2



5. Extract to outside air.

How to Fit Retro Ducting

Step 1



Step 2



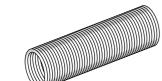
Step 3

Airflex Ducting

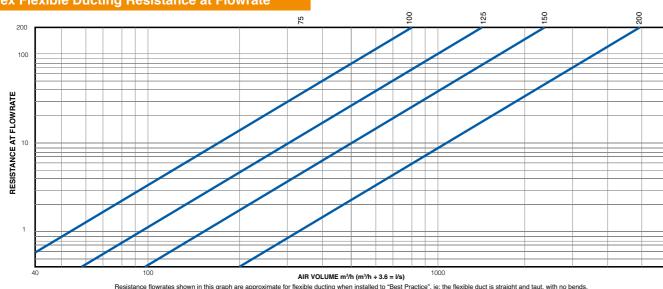
| Airflex Flexible Round PVC Hose | | | | | |
|---------------------------------|--------------|----------|-------------|--|--|
| Part No. | Dimensions | Part No. | Dimensions | | |
| 52641005 | ø100mm x 1m | 52641009 | ø125mm x 3m | | |
| 52641001 | ø100mm x 3m | 9041557 | ø125mm x 6m | | |
| 52641002 | ø100mm x 6m | 9041555 | ø150mm x 1m | | |
| 52641006 | ø100mm x 15m | 52641003 | ø150mm x 3m | | |
| 52641007 | ø100mm x 45m | 52641004 | ø150mm x 6m | | |
| 52641008 | ø125mm x 1m | | | | |

| Airflex Combi Flexible Ducting | | | | | |
|--------------------------------|--------------|----------|--------------|--|--|
| Part No. | Dimensions | Part No. | Dimensions | | |
| 9021285 | ø100mm x 3m | 9021287 | ø152mm x 6m | | |
| 9021292 | ø100mm x 5m | 9021290 | ø152mm x 10m | | |
| 9021289 | ø100mm x 10m | 9021295 | ø200mm x 5m | | |
| 9021286 | ø152mm x 3m | 9021288 | ø200mm x 6m | | |
| 9021294 | ø152mm x 5m | 9021291 | ø200mm x 10m | | |





Airflex Flexible Ducting Resistance at Flowrate



per meter.

Accessories

| Airflex Re | -enforced Alum | inium Flexible Ducting |
|-------------|--|---|
| Part No. | Dimensions | |
| 9021311 | ø100mm x 3m | |
| 9021315 | ø100mm x 5m | |
| 9021318 | ø100mm x 10m | |
| 9021312 | ø150mm x 3m | |
| 9021316 | ø150mm x 5m | |
| 9021320 | ø150mm x 10m | |
| 9021313 | ø200mm x 3m | |
| 9021317 | ø200mm x 5m | |
| 9021321 | ø200mm x 10m | |
| 9021314 | ø300mm x 5m | |
| | | |
| Airflex Re- | enforced Alumin | ium Insulated Flexible Ductin |
| Part No. | Dimensions | |
| 52662701 | ø102mm x 10m | |
| 52662702 | ø127mm x 10m | |
| 52662703 | ø152mm x 10m | |
| 90000503 | ø160mm x 10m | |
| 90000504 | ø180mm x 10m | |
| - Afr | | |
| Best Pra | actice Flexib | le Ducting Installation |
| √ Do | Maximum lengh of flexible ducing Airflow | Flexible ducting supports |
| | n't Bends and kinks (resistance) | Preferred fiel ducting particular crushed ducting (resistance) |
| . . | er Services 0 [.] | |



222

Flexible PVC ducting for general ventilation connection

applications. Highly versatile, non degrading, operating

temp of $+6^{\circ} - +50^{\circ}$ fire resistance tested to BS 476.

To overcome awkward installation where rigid duct

is unable to be installed. Can be used with fans for

kitchens, bathrooms, toilets, cooker hoods etc. For optimum performance duct should be as straight and

PVC coated aluminium ducting for general ventilation connection applications, with a degree of outer protection.

Highly versatile, non degrading fire resistance tested

to BS 476. Operating temp +6° - +50° coated in

PVC to add extra protection from corrosion and tear

damage. Can be used with fans for kitchens, bathrooms,

toilets, cooker hoods etc. For optimum performance duct

should be as straight and taut as possible to ensure

• To use: Look across for your air volume, look up to the

dimension of flexible ducting, look left for the resistance

"best practice" installation.

taut as possible to ensure "best practice" installation.

Aluminium re-enforced ducting for general connection applications, with a good degree of outer protection. Highly versatile, non degrading, fire resistant tested to BS 476. Re-enforced with a tough wire spiral to maintain bore and reduce collapse. To overcome awkward situations where rigid duct cannot be installed. Can be used with fans for kitchens, bathrooms, toilets, cooker hoods and also Mechanical Extract Ventilation and Heat Recovery ventilation installations.

For optimum performance duct should be as straight and taut as possible to ensure "best practice" installation.

 Insulated and re-enforced aluminium ducting for general connection applications, where thermal conductivity and resistance are important. (outside the insulated envelope of a house for example). Duct can be used to connect fans in kitchens, bathrooms, toilets etc and also Mechanical Extract Ventilation and Heat Recovery Ventilation.

For optimum performance duct should be as straight and taut as possible to ensure "best practice" installation.

Airflex re-enforced aluminium insulated flexible ducting is made up with 25mm microfibre and has a thermal conductivity λ in W/m.K at 10°C of 0,036 which is less than 0.04W/(mK) which is the maximum allowed within the requirements of Domestic Ventilation Compliance Guide 2010, and is therefore compliant. It is suitable for temperatures of -30°C to +120°C and can be used up to a maximum 2000 Pa positive.

It has been tested to Fire rating BS 476 Part 6 Fire Propagation Test (passed) Part 7 Surface Spread of Flame (class I rating) Part 20 Fire Resistance (60 minutes).

Airflat Ducting 204mm x 60mm

• Thin, discreet white channel ducting system for use when space is an issue, or for use in the visible area of the house.

Horizontal Bend

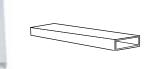
Dimensions

52641401 204mm x 60mm - 90°

Part No.

Part No. 52641401

| Flat Channel Ducting | | | |
|----------------------|---------------------|--|--|
| Part No. | Dimensions | | |
| 52641201 | 204mm x 60mm x 1m | | |
| 52641202 | 204mm x 60mm x 1.5m | | |



| Resistance (Pa) at flow rate | | | | | | |
|------------------------------|--------|--------|--------|--------|--------|--|
| Part No. | 10 l/s | 20 l/s | 30 l/s | 40 l/s | 60 l/s | |
| 52641201 | <1 | 1.1 | 2.3 | 4.1 | 7.7 | |
| 52641202 | <1 | 1 | 1.5 | 3 | 5.2 | |

| Flexible Joining Piece | | | |
|------------------------|-----------------------------|--|--|
| Part No. | Dimensions | | |
| 52641501 | 204mm x 60mm x 600mm max | | |
| | | | |

| Resistance (Pa) at flow rate | | | | | |
|------------------------------|--------|--------|--------|--------|--------|
| Part No. | 10 l/s | 20 l/s | 30 l/s | 40 l/s | 60 l/s |
| 52641501 | 0.3 | 1.4 | 2.5 | 5.8 | 11.2 |

| Horizonta | I T |
|-----------|--------------|
| Part No. | Dimensions |
| 52641801 | 204mm x 60mm |



| | Resistance (Pa) at flow rate | | | | | | | |
|---|---|----------------------|--|--|--|--|--|--|
| Ρ | Part No. 10 l/s 20 l/s 30 l/s 40 l/s 60 l/s | | | | | | | |
| 5 | 2641801 | vary on installation | | | | | | |

| 52641302 | 204mm x 60mm x 150mm ø |
|----------|------------------------|
| 5 | |

52641301 204mm x 60mm x 100mm ø

204mm x 60mm x 125mm ø

Elbow / Plenum

9041200

Part No. Dimensions

| Resistance (Pa) at flow rate | | | | | | | |
|---|-----|------|----|----|-----|--|--|
| Part No. 10 l/s 20 l/s 30 l/s 40 l/s 60 l/s | | | | | | | |
| 52641301 | 3.5 | 15 | 29 | 66 | 117 | | |
| 9041200 | 3.4 | 12 | 24 | 64 | 110 | | |
| 52641302 | 3 | 11.4 | 20 | 41 | 65 | | |

| Vertical Bend | | | | |
|---------------------|--------------------|--|--|--|
| Part No. Dimensions | | | | |
| 52641601 | 204mm x 60mm - 90° | | | |

Resistance (Pa) at flow rate

10 l/s 20 l/s 30 l/s 40 l/s 60 l/s

1.2 5.1 9.7 22 44

| Horizontal Adapter (round / rectangle) | | | | |
|--|------------------------|--|--|--|
| Part No. Dimensions | | | | |
| 51980001 | 204mm x 60mm x 125mm ø | | | |

sistance (Pa) at flow rate

10 l/s 20 l/s 30 l/s 40 l/s 60 l/s

0.8 4 8.3 17 33



| Resistance (Pa) at flow rate | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| Part No. 10 l/s 20 l/s 30 l/s 40 l/s 60 l/s | | | | | | | | |
| 51980001 <1 1.4 2.7 6.5 11 | | | | | | | | |

| | Straight Connector | | | | | |
|--|--------------------|--------------|--|--|--|--|
| | Part No. | Dimensions | | | | |
| | 52641701 | 204mm x 60mm | | | | |

art No. 52641601





| Flat Channel Clip | | | | |
|-------------------|--|--|--|--|
| Dimensions | | | | |
| 204mm x 60mm | | | | |
| | | | | |



Accessories

Air Round Rigid Ducting

| Round Pipe | | | | | | |
|------------|----------------|----------|----------------|--|--|--|
| Part No. | Dimensions | Part no. | Dimensions | | | |
| 9021378 | ø100mm x 350mm | 9041543 | ø125mm x 1.5m | | | |
| 90000048 | ø100mm x 1m | 9041546 | ø125mm x 2m | | | |
| 90000051 | ø100mm x 2m | 9001903 | ø150mm x 350mm | | | |
| 9041220 | ø125mm x 350mm | 90000049 | ø150mm x 1m | | | |
| 9041547 | ø125mm x 1m | 90000052 | ø150mm x 2m | | | |



| \bigcirc | |
|------------|--|

| Resistance (Pa) at flow rate | | | | | | | |
|------------------------------|--------|--------|--------|--------|--------|--|--|
| Part No. | 10 l/s | 20 l/s | 30 l/s | 40 l/s | 60 l/s | | |
| 9021378 | <1 | <1 | <1 | <1 | 1.1 | | |
| 9000048 | <1 | <1 | 1.4 | 2.2 | 3.1 | | |
| 9000051 | <1 | 1.6 | 2.8 | 4.4 | 6.2 | | |
| 9041220 | <1 | <1 | <1 | <1 | <1 | | |
| 9041547 | <1 | <1 | <1 | <1 | 1.38 | | |
| 9041543 | <1 | <1 | <1 | 1.7 | 2.76 | | |
| 9041546 | <1 | <1 | 1.2 | 2.3 | 3.6 | | |
| 9001903 | <1 | <1 | <1 | <1 | <1 | | |
| 90000049 | <1 | <1 | <1 | <1 | 1.2 | | |
| 90000052 | <1 | <1 | <1 | 1.1 | 2.4 | | |

| Equal T F | Piece | 90° Round | dElbow |
|-----------|-----------------------|-----------|------------|
| Part No. | Dimensions | Part No. | Dimensions |
| 9041461 | 100 x 100 x 100mm ø M | 9000054 | ø100mm M |
| 9041201 | 125 x 125 x 125mm ø M | 9041542 | ø125mm M |
| 9041545 | 150 x 150 x 150mm ø M | 9000055 | ø150mm M |



Part No. 9041201

9041461

9041545



| esis | stance | e (Pa) at | flow ra | ite | |
|------|--------|-----------|---------|---------|--------|
| 1 | 10 l/s | 20 l/s | 30 l/s | 40 l/s | 60 l/s |
| | | vary o | n insta | llation | |
| | | vary o | n insta | llation | |
| | | vary o | n insta | llation | |



4

7.9

2.1 4 9.4 17

 White plastic round rigid ducting can be used as ducting as part of a larger system or as a component cut down. Where possible to ensure "best practice" and "installed performance" of the fan or ventilation unit it is advisable to use a rigid or semi rigid duct system to minimise bends and duct resistance. Fire tested to UL94 v2 / BS 476 these PVC rigid ducts are available in a versatile and wide range of sizes.

| | ylic Duct Sealant |
|----------------------|---|
| Part No. | Dimensions |
| 90000356 | 380ml Grey acrylic duct sealant - non hardening. |
| A | Duriseal |
| Y Piece | |
| Part No. | Dimensions |
| 9041556 | ø125mm M |
| | |
| 45° Bend | |
| 45° Bend Part No. | Dimensions |
| | Dimensions ø125mm M |
| Part No. | |
| Part No. 9041544 | ø125mm M |
| Part No. 9041544 | ø125mm M |

M = Male connection

| nm | М | | |
|-------|---------|--------|--------|
| nm | М | | |
| nm | М | | |
| | E | | |
| | flow ra | | |
| 0 l/s | 30 l/s | 40 l/s | 60 l/s |
| 5.4 | 21 | 43 | 78 |

16 34

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Air Round Rigid Ducting

| Straight F | Reducer |
|------------|-------------------|
| Part No. | Dimensions |
| 51979601 | ø125mm to 100mm M |
| 9000060 | ø150mm to 125mm M |
| 90000061 | ø200mm to 150mm M |

Plastic rigid ducting connections enables design of complex duct systems or for use as components in larger systems

| Offset Reducer | | | Round Pipe Connector | | |
|--------------------------------|-----------------------------|--|-----------------------------|------------|--|
| Part No. | Dimensions | | Part No. | Dimensions | |
| 52644101 | ø125mm to 100mm M | | 90000019 | ø100mm M | |
| · · | pe 125mm - male and accepts | | 52644001 | ø125mm M | |
| an offset 100mm pipe - female) | | | 9000058 | ø150mm M | |
| | | | 90000059 | ø200mm M | |



M = Male connection

Accessories

Airflex ISO - Insulated Rigid Ducting

| Airflex ISO Pipe | | | | |
|------------------|-----------------|--|--|--|
| Part No. | Dimensions | | | |
| 9041147 | ø125mm x 2000mm | | | |
| 90000505 | ø160mm x 950 mm | | | |
| 90000465 | ø160mm x 2000mm | | | |
| 9041250 | ø180mm x 1000mm | | | |
| 90000475 | ø180mm x 2000mm | | | |



ø125mm 90° ISO bend

with male/male connector

with male/male connector

Dimensions

with collar

90000467 ø160mm 90° ISO bend

90000477 ø180mm 90° ISO bend

Airflex ISO Connections

Dimensions 90000470 ø160mm ISO Pipe male

90000471 ø160mm ISO Pipe male

90000480 ø180mm to 160mm pipe

90000497 ø200mm female to

with seal to ø125mm

with seal to ø180mm

male / male with seals

ø160mm male with seal

ø200mm female to ø180mm male with seal

ISO Reducing Connector

90° Elbow

Part No.

9041152

Part No.

90000500

Duct Insulation

 Insulation wrap provides insulation for all Airflow's duct systems where a degree of thermal conductivity / resistance is an issue (outside the thermal envelope of the house for example).

Airflow duct insulation wrap has been Fire Tested in accordance with BS 476, part 6, 7 and 20. Its thermal conductivity is 0.005 W/mK for 4mm thickness and therefore complies to the requirements of Domestic Ventilation Compliance Guide 2010.

90000016 50m tape

Dimensions

Tape

Part No.

Adhesive aluminium tape for the fitting and installation of aluminium insulation wrap. Non hardening adhesive.

| Insulation Wra | ар |
|----------------|--------------------------------------|
| Part No. | Dimensions |
| 9000010 | Round/oval Airflex Pro - 295mm x 25m |
| 90000011 | 100mm Airound - 345mm x 12.5m |
| 9000012 | 125mm Airound - 422mm x 12.5m |
| 9000013 | 150mm Airound - 503mm x 12.5m |
| 90000014 | 204mm x 60mm Airflat - 531mm x 12.5m |





- ISO pipe ducting, pre-insulated.
- Tough, durable, anti-static EPP construction.
- Fire retardant to EU-B2 DIN 4102.
- Choice of components to suit any layout.
- Typically connects to MVHR units and distribution boxes and to outside for venting.
- Pre insulated duct for when the ventilation unit is outside the warm envelope of the house. This helps to reduce condensation.

Dimensions

45° Elbow

Part No.

9041154

90000466

90000476

ø125mm 45° ISO bend with collar ø160mm 45° ISO bend

with male/male connector

ø180mm 45° ISO bend with male/male connector

| ISO Conn | ector |
|----------|--|
| Part No. | Dimensions |
| 9041149 | ø125mm ISO pipe female /female Connector (plastic) |
| 90000468 | ø160mm ISO pipe male / male Connector (plastic) |
| 90000478 | ø180mm ISO pipe male / male connector (plastic) |



| ISO Coupling | | | |
|--------------|---|--|--|
| Part No. | Dimensions | | |
| 9041191 | ø125mm male / male coupling with seals | | |
| 90000469 | ø160mm male / male coupling with seals | | |
| 9041232 | ø200mm male / male coupling with seals | | |





Square External Grilles

- Plastic external grilles in a spread of colours and sizes. Various colours and various sizes. F/S denotes it comes with a flyscreen.
- These grilles comply with the requirements of the Domestic Ventilation Compliance guide 2010 that states terminal opening is a minimum of 90% of the free area of the ducting being used.

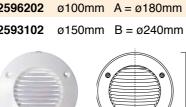
| Brown | | White | | Grey | |
|--|---|-------------------|---------------------------------|---------------------------------|---|
| Part No. | Dimensions | Part No. | Dimensions | Part No. | Dimensions |
| 52641104 | 140 x140 x ø100mm | 52641101 | 140 x140 x ø100mm | 52641102 | 140 x140 x ø100mm |
| 9021012 | 140 x140 x ø100mm - F/S | 9021172 | 150 x150 x ø100mm - F/S | 52641107 | 180 x180 x ø150mm |
| 9041222 | 160 x160 x ø125mm | 9041221 | 160 x160 x ø125mm | | |
| 52641109 | 180 x180 x ø150mm | 52641106 | 180 x180 x ø150mm | | |
| | | | <u>*</u> - | A REAL | 100 |
| Terracott | a | Beige | 5 5 | Gravity F | ilap - White |
| | a Dimensions | Beige Part No. | Dimensions | Gravity F Part No. | ilap - White Dimensions |
| Part No. | | Part No. | Dimensions 140 x140 x ø100mm | Part No. | |
| Part No. 52641103 | Dimensions | Part No. 52641105 | | Part No. | Dimensions |
| Part No. | Dimensions 140 x140 x ø100mm | Part No. 52641105 | 140 x140 x ø100mm | Part No. 51791101 9041468 | Dimensions 140 x140 x ø100mm |
| Part No. 52641103 9021082 9041223 | Dimensions 140 x140 x ø100mm 140 x140 x ø100mm - F/S | Part No. 52641105 | 140 x140 x ø100mm | Part No. 51791101 9041468 | Dimensions 140 x140 x ø100mm 160 x160 x ø125mm |

iCON Round External Grilles

- For use ideally with our range of iCON fans, multiple sizes and colours available.
- For Use With Round Rigid Duct Only.

| Terracott | White | |
|-----------|-------------------|----------|
| Part No. | Dimensions | Part No. |
| 72596201 | ø100mm A = ø180mm | 72596202 |
| 72593101 | ø150mm B = ø240mm | 72593102 |
| | | |





Dimensions







228

• These grilles comply with the requirements of the Domestic Ventilation Compliance guide 2010 that states terminal opening is a minimum of 90% of the free area

of the ducting being used.

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Airbricks

Accessories

• Airbricks fit in neatly in a standard brick size for discreet supply or extract applications where a standard grill may not be suitable.

| | | | | ang being used | |
|------------|-------------------------|------------------------------|--------------|--|--------------------------|
| Terracotta | a | Beige | | Brown | |
| Part No. | Dimensions | Part No. | Dimensions | Part No. | Dimensions |
| 52642010 | 204mm x 60mm | 52642002 | 204mm x 60mm | 51849605 | 204mm x 60mm |
| | | | | | |
| With Inter | nal Damper - Terracotta | With Internal Damper - White | | Double Airbrick - C/W Adaptor | |
| Part No. | Dimensions | Part No. | Dimensions | Part No. | Dimensions |
| 51978702 | 204mm x 60mm | 51978701 | 204mm x 60mm | 90000077 | 204mm x 120mm Terracotta |
| | | | | 90000076 | 204mm x 120mm White |
| | | | | 90000132 | 204mm x 120mm Stone |
| | | | | in the second se | |

| With Internal Damper - Terracotta | | |
|-----------------------------------|--------------|--|
| Part No. Dimensions | | |
| 51978702 | 204mm x 60mm | |



Stainless Steel External Grilles

• Outside stainless steel grilles for greater weather protection suitable where a greater aesthetic appeal is necessary

| Round Co | owl with Louvers | Round Co | owl with Mesh | Cowl with | n Gravity Flap |
|----------|------------------|----------|---------------|-----------|----------------|
| Part No. | Dimensions | Part No. | Dimensions | Part No. | Dimensions |
| 52644501 | ø100mm | 52644701 | ø100mm | 9041230 | ø125mm |
| 9041226 | ø125mm | 9041228 | ø125mm | 9041231 | ø150mm |
| 52644601 | ø150mm | 52644801 | ø150mm | | |
| 9041227 | ø180mm | 90000506 | ø160mm | | |
| | | 9041229 | ø180mm | | |
| 0 | • | | | | |







• These Airbrick grilles comply with the requirements of the Domestic Ventilation Compliance guide 2010 that states terminal opening is a minimum of 90% of the free area of the ducting being used.

• These grilles comply with the requirements of the Domestic Ventilation Compliance guide 2010 that states terminal opening is a minimum of 90% of the free area of the ducting being used.

Fits 204 x 60 Duct

Regal Cowls

| Regal Side Entry Cowl | | | |
|-----------------------|-------------------------|--|--|
| Part No. | Dimensions | | |
| 90000449 | To suit ø125mm ISO duct | | |
| 90000498 | To suit ø160mm ISO duct | | |
| 90000501 | To suit ø180mm ISO duct | | |





Part No.

90000450

90000499

Regal Front Entry Cowl

Dimensions

90000502 To suit ø180mm ISO duct

To suit ø125mm ISO duct

To suit ø160mm ISO duct

External Wall Grilles (Dual)

| External Wall Grilles | | | |
|-----------------------|---|--|--|
| Part No. | Dimensions | | |
| 9041164 | ø160mm Dual external grille - white for pipe connection 160mm for exhaust and fresh air - fresh air connection L/H side. | | |









Acoustic Accessories

| Acoustic Humidity Air Vent | | Acoustic \ |
|----------------------------|---------------------|------------|
| Part No. | | Part No. |
| 9041306 | 425mm x 45mm x 64mm | 9041323 |
| | | |





| Circular Attenuators | | |
|----------------------|----------------|--|
| Part No. | | |
| 90000115 | 125mm x 600mm | |
| 9541176 | 125mm x 900mm | |
| 9541177 | 125mm x 1250mm | |

Part No 90000115 9541176 9541177

16

33



Airflow Air Valves Extract (E) & Supply (S)

| Plastic Adjustable Air Valve (S) | | Metal Adjustable | | |
|----------------------------------|---------------------------|------------------|----------|--------|
| Part No. | Dimensions | | Part No. | Dimens |
| 90000339 | ø125mm Directional supply | | 9041168 | ø125mm |

Direct the airflow from this valve to the area of your choice in the room



75mm (Depth) Fire protection ex

Dim Part No. 90000126 ø125mn



(Depth)





 A range of plastic and metal supply and extract air valves. Multple sizes for all ventilation applications.

47

53

46

| ustable Air Valve (S) | Plastic Adjustable Air Valve (E) | | |
|--|--|--|--|
| Dimensions | Part No. Dimensions | | |
| ø125mm | 9020152 ø100mm (A-140 x B-60mm) | | |
| | 90000340 ø125mm (A-165 x B-65mm) | | |
| | 9020153 ø150mm (A-185 x B-55mm) | | |
| | 9020154 ø200mm (A-245 x B-80mm) | | |
| 160mm (Outside Diameter) 75mm (Depth) | A (Outside Diameter) | | |
| ection extract valve | Fusible link release closes the valve | | |
| Dimensions | when temperature reaches 72°C sealing the duct from fire and smoke ingress. Fusible link release sits inside duct behind the valve approx 35mm. | | |
| ø125mm | | | |
| Т | | | |

airflow.com

175mm

(Outside Diameter)

Speciality Air Valves

 A range of special air valves designed for when a greater degree of aesthetics is required.

Coanda Supply Air Valve - White

| Part No. | Dimensions |
|----------|------------|
| 9041166 | ø125mm |

Part No. Dimensions 9041169 ø125mm wall/ceiling

Supply Air Valve - White



COANDA effect valve for supply enables a better range of circulating ventilation ensuring a high level of indoor air quality. Can be used for extract without coanda effect.

| Aluminiu | m Wall Grille |
|----------|--|
| Part No. | Dimensions |
| 9041175 | Grille for wall mounting from aluminium 200 x 50mm (inner), 250 x 110mm (outer) Air volume adjustable via horizontal and vertical fins fits with straight wall outlet (9041143) and 90° Wall outlet (9041144) also fits to 204mm x 60mm ducting |
| | 4 |



9

| Stylish Supply/Extract Valve | | | | |
|------------------------------|------------|--|--|--|
| Part No. | Dimensions | | | |
| 90000315 | 100mm ø | | | |

| | c/w internal filter |
|---------|---------------------|
| 0000316 | 125mm ø |
| | c/w internal filter |
| 0000317 | 100mm filter |
| 0000318 | 125mm filter |
| | |

| Part No. | Dimensions |
|----------|-----------------------------|
| 9041174 | Floor grille from satin |
| | stainless steel air volume |
| | adjustable via setting disc |
| | fits with floor outlet |
| | (9041142) |

Floor Grille - Satin S/steel



| Stylish Supply/Extract Valve | | | | |
|------------------------------|--------------------------------|--|--|--|
| Part No. Dimensions | | | | |
| 90000439 | 100mm ø c/w internal filter | | | |
| 90000317 | 100mm filter | | | |



Extract Air Valve - White

Part No. Dimensions 9041173 ø125mm wall/ceiling



Accessories

Airflow Airese Adjustable Air Valves

• Airese air valves are designed to provide a complete demand controlled ventilation solution. The valves automatically respond to conditions within specific rooms such as kitchens and bathrooms and then operate acordingly to meet the ventilation required for that type of room.

| White | |
|----------|--|
| Part No. | Dimensions |
| 9041234 | 15m ³ /hr Constant air flow |
| 9041235 | 30m3/hr Constant air flow |
| 9041236 | 15m3/hr Constant air flow, Pull Cord Boost to 30m3/hr |
| 9041237 | 20m3/hr Constant air flow, Pull Cord Boost to 75m3/hr |
| 9041238 | 5m³/hr Constant air flow, Humidity Boost to 45m³/hr |
| 9041239 | 10m³/hr Constant air flow, Humidity Boost to 45m³/hr |
| 9041240 | 12m ³ /hr/ 45m ³ /hr/ 105m ³ /hr Air flow Boost Humidity Ele |
| 9041241 | 5m³/hr/ 40m³/hr/ 100m³/hr Air flow Boost Humidity Elec |
| 9041242 | 6m ³ /hr/ 40m ³ /hr/ 90m ³ /hr Air flow Boost Humidity Pull C |
| 9041243 | 5m ³ /hr Air flow Boost Electric to 30m ³ /hr |
| 9041244 | 5m³/hr Air flow Boost PIR Batt to 30m³/hr |
| | |





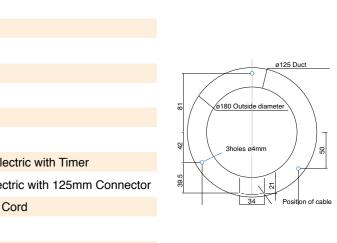


Airflow Airese Adjustable Air Valve Accessories

| White | | | White | |
|----------|--------------------------------------|---|----------|----------|
| Part No. | Dimensions | | Part No. | Dimensio |
| 9041246 | ø125mm Straight connector | | 9041245 | ø125mm F |
| 9041247 | ø150mm Straight connector | | | |
| 9041248 | ø125mm Straight ceiling connector | | | |
| | |) | | |



- Models include constant flow, pull cord activator, humidity activation, boost-electric, boost battery and humidity with timer.
- Intelligent self adjustable valves for the complete demand control solution specifically for use with MVHR and other ducted ventilation systems.







ions Reducer to 100mm



Metal Worm Drive Clips

8mm Wide

51849402 ø100mm/ 4" adjustable 50mm - 110mm 51849403 ø125mm/ 5" adjustable 60mm - 165mm 51849404 ø150mm/ 6" adjustable 60mm - 325mm



Roof Cowls, Slates and Traps

Roof Slate Part No.

9004597

9004598

Part No.

100

110

125

150

7,850

8,850

12.250

17.775

160 18 750 6 5

3.0

4.5

5.3

6.5

90000351

Dimensions

Universal Roof Terminal & Adapto

Dimensions

160mm - Sepia

ø100mm / 110 / 125 / 150 /

igs (Pa)

48.0

72.0

84.8

104

104

192.0

288.0

339.2

416

416

450mm Pitched roof

600mm Pitched roof

| Grey Roo | of Cowl |
|----------|------------------------|
| Part No. | Dimensions |
| 9004554 | Roof cowl A.B.S ø100mm |



| Universal Roof Terminal & Adaptor | | | |
|--|--------------------|--|--|
| Part No. Dimensions | | | |
| 90000349 ø100mm / 110 / 125 / 150 / | | | |
| | 160mm - Anthracite | | |



| Duct size | Vent free area | Pressure / Airflow Resistance Readings (Pa) (vent system pressure) | | | | |
|--------------|----------------------|--|------|------|-------|--|
| (mm) | (mm²) | 100m³/h 200m³/h 400m³/h 400m³/h | | | | |
| 100 | 7,850 | 3.0 | 12.0 | 48.0 | 192.0 | |
| 110 | 8,850 | 4.5 | 18.0 | 72.0 | 288.0 | |
| 125 | 12,250 | 5.3 | 21.2 | 84.8 | 339.2 | |
| 150 | 17,775 | 6.5 | 26 | 104 | 416 | |
| 160 | 18,750 | 6.5 | 26 | 104 | 416 | |

Backdraught Flap

Backdraught flaps to reduce the ingress of air from the outside and reduce wind and outside noise disturbance.



A selection of roof terminal solutions allowing supply or extract through the roof of a dwelling. Both universal for multiple sizes and size specific products are available for pitched and flat roof applications.

| Condens | Condensation Trap | | | | | |
|-----------------|---------------------|--|--|--|--|--|
| Part No. | Part No. Dimensions | | | | | |
| 51978301 | ø100mm | | | | | |
| 52364801 ø150mm | | | | | | |



| Universal | Poof ' | Torminal | 8. Adaptor |
|-----------|--------|----------|------------|
| Universal | nuui | rennina | & Adaptor |

Dimensions Part No. 90000350 ø100 / 110 / 125 / 150 / 160mm - Terracotta



| Duct size | Vent free area | Pressure / Airflow Resistance Readings (Pa) (vent system pressure) | | | | |
|--------------|----------------------|--|---------|---------|---------|--|
| (mm) | (mm²) | 100m³/h | 200m³/h | 400m³/h | 400m³/h | |
| 100 | 7,850 | 3.0 | 12.0 | 48.0 | 192.0 | |
| 110 | 8,850 | 4.5 | 18.0 | 72.0 | 288.0 | |
| 125 | 12,250 | 5.3 | 21.2 | 84.8 | 339.2 | |
| 150 | 17,775 | 6.5 | 26 | 104 | 416 | |
| 160 | 18,750 | 6.5 | 26 | 104 | 416 | |

Accessories

Venting Kits

• A range of connecting ducts and grilles to connect your Airflow fan to the outside, already with a grill provided. Various sizes and colours available. Will also connect to new Airflow fans, check the diameter required.

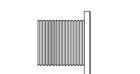
| Cavity Wa | all Kit - Terracotta | Cavity Wa | all |
|-----------|-------------------------|-----------|-----|
| Part No. | Dimensions | Part No. | I |
| 72643201 | ø100mm x 350 Rigid duct | 72643202 | ¢ |
| 72643203 | ø150mm x 350 Rigid duct | 72643204 | ¢ |
| | | | |



| Flexible Wall Kit - Terracotta | | | | | |
|--------------------------------|-------------------|--|--|--|--|
| Part No. | Dimensions | | | | |
| 72643601 | ø100mm 3m Ducting | | | | |
| 90000437 | ø125mm 3m Ducting | | | | |
| 72643603 | ø150mm 3m Ducting | | | | |

| Flexible Wall Kit - | | | | | |
|---------------------|-----|--|--|--|--|
| Part No. | Din | | | | |
| 72643602 | ø10 | | | | |
| 90000438 | ø12 | | | | |
| 72643604 | ø15 | | | | |







| In-Line Flexible Ducting Kit | | | | | |
|------------------------------|-------------|--|--|--|--|
| Part No. | Dimensions | | | | |
| 9041183 | ø100mm x 6m | | | | |

For use with Aventa 100 and

Aventa 100T. Comes with exhaust

valve, duct, outside gravity flap

and fitting circlips

In-Line Flexible Ducting Kit Part No. Dimensions 9041184 ø125mm x 6m



• For use with Aventa 125 and Aventa 125T. Comes with exhaust valve, duct, outside gravity flap and fitting circlips



234

12.0

18.0

21.2

26

26

airflow.com



• These venting kit grilles comply with the requirements of the Domestic Ventilation Compliance Guide 2010 that states terminal opening is a minimum of 90% of the free area of the ducting being used.

I Kit - White

Dimensions ø100mm x 350 Rigid duct ø150mm x 350 Rigid duct

High Rise Cavity Wall Kit -Cowl / Rubber Seal

Part No.

9021451

Dimensions ø100mm Rigid duct



White

mensions 00mm 3m Ducting 25mm 3m Ducting ø150mm 3m Ducting



 This high rise cavity wall kit enables installation via insertion from the inside of the dwelling, so no access to the outside of the property is required.

Part No. Dimensions 9041185 ø150mm x 6m

In-Line Flexible Ducting Kit



For use with Aventa 150 and Aventa 150T. Comes with exhaust valve, duct, outside gravity flap and fitting circlips

Intumescent Fire Collars

| Round | | Rectangu | ılar |
|----------|-----------------|----------|--------------|
| Part No. | Dimensions | Part No. | Dimensions |
| 90000108 | 75 - 82mm dia | 90000107 | 205mm x 60mm |
| 90000109 | 100 - 110mm dia | | |
| 90000110 | 125 - 130mm dia | | |
| 90000111 | 150 - 160mm dia | | |



Fire Collar - prevents spread of fire, smoke and hot gasses where fire compartment wall / floor is penetrated by plastic pipes.

 Contain intumescent material which reacts under the influence of heat on the duct pipe to form a insulation plug preventing smoke and fire passing through to the adjoining rooms. Suitable for any type of building where a fire compartment wall or floor is penetrated by plastic duct pipes. Fixed by mounting lugs these collars can be used without the need for encapsulation in walls or brickwork.

Flame Stopper Safety Sleeve - fits onto fans or air valves

The safety sleeve is constructed from intumescent

material. This reacts under the influence of heat and

forms an insulation plug preventing smoke or fire passing through the adjoining rooms. These sleeves need to be encapsulated in walls or brickwork to be able

to prevent spread of fire in HVAC systems.

Flame Stopper Safety Sleeve

| Safety Sleeve | | | | | |
|---------------|------------|--|--|--|--|
| Part No. | Dimensions | | | | |
| 9041311 | 80mm dia | | | | |
| 52662301 | 125mm dia | | | | |
| 52662401 | 150mm dia | | | | |



Remote Switches, Controllers & Sensors

| Air Quality Sensor | | | | | |
|--------------------|----------------------|--|--|--|--|
| Part No. | Dimensions | | | | |
| 9041575 | W125 x H75mm x D30mm | | | | |



Air Quality Sensor Single phase AC currant -max 1.0 amp

to operate correctly.

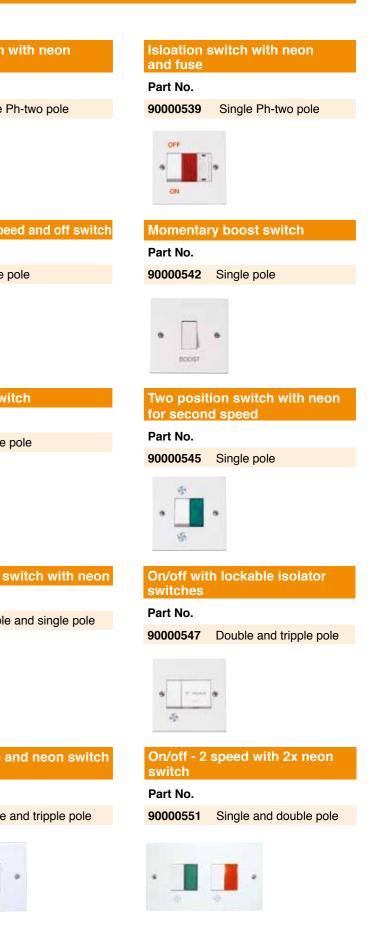
- Air quality sensor suitable for domestic and commercial ventilation systems. This will switch fans on if condensation rates rise quickly or the set valve exceeded. An adjustable timer over run is engaged after the condensation rates are below sensor settings.
- The integrated sensor reacts to oxidable gases and pollutants such as: carbon monoxide, alcohol, formaldehydes, benzene, solvent, methane, tobacco etc

Accessories

| Isolation switch | Isloation switch |
|---|-------------------|
| Part No. | Part No. |
| 90000537 Single Ph-two pole | 90000538 Single I |
| S OFF | OFF ON |
| On/off switch | Low and High spe |
| Part No. | Part No. |
| 90000540 Single pole | 90000541 Three |
| ss | * _ * * _ * |
| On/off switch with neon | Two position sw |
| Part No. | Part No. |
| 90000543 Single pole | 90000544 Single |
| a a a | * |
| Supervent SV6 switch | Supervent SV6 s |
| Part No. | Part No. |
| 90000546 Double and single pole | 90000548 Double |
| • • • | • • • • |
| Three position with neon speed indicator switch | On/off lockable a |
| Part No. | Part No. |
| 90000549 Three postion | 90000550 Single |
| • | • |
| | |



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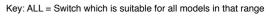
| Part No. | | 1 Amp Reversable Speed Controller Part No. | 1 Amp Stepless Speed controller Part No. |
|----------------------|---|--|--|
| 9041033 | Maxivent / Supervent iCON 60 | 9041566 Reversible fans | 9041565 Single phase fans |
| | | | .) |
| 3 Amp St | tepless Speed Controller | QuietAir 150 VS controller | PIR Motion Sensor Timer |
| Part No. | | Part No. | Part No. |
| 9041569 | Single phase fans | 90000514 QTI50VS | 51969702 c/w timer 3 - 30 mins |
| 5 | | C | 0. |
| | Humidistat On / Off | Single gang back box | Double gang back box |
| Part No. 9041570 | Humidisat 30% - 90% | Part No. 90000552 35mm deep | Part No. 90000553 35mm deep |
| Comm | ercial Fan Speed Co | ntrollers | - <u>19</u> |
| | ontroller 1 AMP | Speed Controller 3 AMP | Speed Controller 6 AMP |
| Speed Co | | | |
| Speed Co Part No. | | Part No. | Part No. |
| | 100% speed controller for linear control of fans | 9021056 100% speed controller for linear control of fans | |
| Part No. | 100% speed controller for | 9021056 100% speed controller for | 9021057 100% speed controller for |
| Part No. 9021055 | 100% speed controller for | 9021056 100% speed controller for linear control of fans | 9021057 100% speed controller for linear control of fans |
| Part No. 9021055 | 100% speed controller for linear control of fans | 9021056 100% speed controller for linear control of fans | 9021057 100% speed controller for linear control of fans Image: Second secon |

Accessories

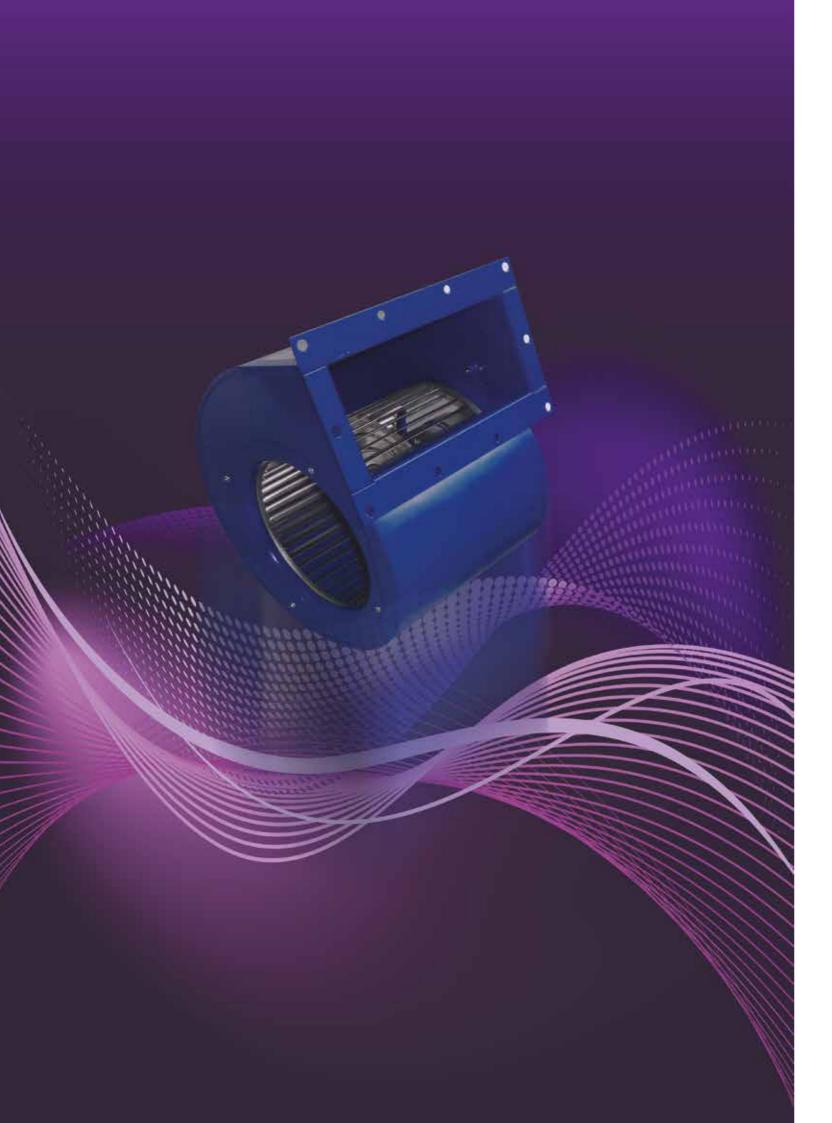
Switch Selection Chart

| | | | | | | MODELS | 5 | | | | | |
|-----------|-------------------|----------------------------|----------|------------------------------|---------------------|-----------------------------------|---------------------|-------------------------|-----------------|-------------------------|-----------------|------------------|
| Switch No | iCONstant | QuietAir | iCON | LOOVENT eco | LOOVENT eco SELV | LOOVENT Classic | Aura eco | Aura Fan/ Shower Kit | Aura In-Line | Aventa In-Line | Aventa Turbo | Aventa Silent |
| 90000540 | ALL | ALL | ALL | ALL | ALL | ALL | ALL (except MST) | ALL | ALL | ALL | ALL | ALL |
| 90000547 | - | - | ALL | - | - | - | - | - | - | - | - | - |
| 90000550 | - | - | ALL | - | - | | - | - | - | - | - | - |
| 90000543 | - | QT100B QT120B QT150B | ALL | LVECOD LVECOMST LVECOT | ALL | ALL | ALL (except MST) | ALL | ALL | ALL | ALL | ALL |
| 90000541 | - | QT100B QT120B QT150B | - | - | - | - | - | - | - | AV150 AV125 AV100 | - | - |
| 90000549 | - | - | - | - | - | - | - | - | - | AV150 AV125 AV100 | - | - |
| 90000458 | - | QT150VS | - | - | - | - | - | - | - | - | - | - |
| | Swit | ch Selec | ction | | DUPLEXVENT | | | Industrial Fans | | | | |
| | Maxivent | Supervent | Roomvent | Airovent | Basic | Professional | Interactive | | (Sing | jle Phase Mo | dels) | |
| 90000540 | MV150HP MV150T | SV6/SV6T | ALL | - | ALL | DV50, DV80, DV90 | ALL | | | ALL | | |
| 90000547 | | - | - | - | - | - | - | | | - | | |
| 90000550 | - | - | - | - | - | - | - | | | - | | |
| 90000543 | MV150T | SV6/SV6T | ALL | - | BV400 | BV400 | - | | | ALL | | |
| 90000541 | - | - | - | ALL | - | - | - | | | - | | |
| 90000549 | - | - | - | - | - | - | - | | | - | | |
| 90000545 | - | SV6 | - | - | - | - | - | | | - | | |
| 90000546 | - | SV6 | - | - | - | - | - | | | - | | |
| 90000548 | - | SV6 | - | - | - | - | - | | | - | | |
| 90000551 | - | SV6 | - | - | - | - | - | | | - | | |
| 90000542 | - | - | - | - | - | DV96, DV110, DV145 DV200 | - | | | - | | |





airflow.com



Industrial Fans

Why industrial fans?

Airflow Developments are continuously monitoring changes with regulation requirements for Industrial Fans: Regulation EU327/2011 or ErP for short.

We offer an extensive range of stock fans Ex-stock / Off the shelf.

We can also offer OEM specials to order. All of which incorporate and comply to regulations.

Stock and Standard

A range of single inlet, double inlet AC and EC, compact and duplex fans and blowers for a wide range of air movement applications.

OEM

A range of bespoke, custom designed fans and blowers to suit specific customer requirements. Competitively priced and available in quantity batches.

Flue Gas Dilution

Mild or stainless steel fans for safe dispersal of CO₂.

Hot Fans

High temperature centrifugal fans for hot air applications.

KEEP UP TO DATE



Industrial Fans Introduction

Introduction

Airflow have been producing high quality air moving equipment and industrial fans for nearly 60 years. During the whole of this period Airflow has been in the forefront developing new techniques and advanced designs. Today the results of this sustained effort can be clearly seen in the variety and quality of products available for all types of industrial air handling requirements.

Most of these industrial fans are available ex-stock direct from Airflow, or through our nationwide dealer network. Variants on the standard range can be made to meet specific needs for customers ordering larger quantities. Please contact Airflow to discuss your requirements.

Performance Testing

Airflow Developments Limited has its own air movement laboratory. Fans are performance tested in accordance with BS EN ISO 5801: 2008 and BS EN 848-1: 2007.

| BS EN 13141 - 4 : 2004 | -Performance testing of products for residential ventilation |
|--|--|
| BS EN 60335 – 1: 2012 | -Household and similar electrical safety / general requirements |
| BS EN 13347 – 3 : 2004 +A1: 2010, BS 848-2.3:2004 | -Industrial fan sound power levels under standardised lab conditions |
| BS 848 – Part 2 : 1985 | -Fans for general purposes, methods of noise testing |

Single inlet fans



This range of fans has been developed to provide reasonable volumes of air against resistances to flow greater than can be achieved from small tube axial fans. As the name denotes these

fans feature a single inlet to the fan scroll which enables them to achieve this greater volume performance.

Compact overall dimensions have been achieved using forward curved, centrifugal impellers and two-pole (typically 2800 rev/min.) motors.

The range has fans covering flow rates from 2.8 l/sec to 130 l/sec and static pressures up to 500 Pa for the largest unit.



Double inlet fans

A range of fan units developed from the demands of the Domestic Warm Air Market where large volumes of air at low outlet velocities are required from very compact units.

All the fans feature two large inlets and a generous outlet, which, combined with low impeller speeds ensure that aerodynamic noise is kept to a minimum. Motor noise and mechanical vibration is reduced considerably by using a patented three-point resilient motor mounting.

All the fans in this range can be speed controlled to give a variety of duties, by voltage variation.

EC Single and EC Double inlet fans



Driven Single and Double inlet fans that can achieve from 93 l/sec to over 1200 l/sec and are fully compliant to the minimum efficiency regulation rates of ErP 327/2011 - 2013 and 2015. The fans incorporate integrated EC type motors with forward curved impellers dynamically balanced to grade 6.3 Din ISO 1940.

A range of High Efficiency EC Motor



Fan cases are constructed from galvanised mild steel which is then powder coated blue. Impellers are manufactured from galvanised mild steel.

Each fan casing is fitted with an outlet flange incorporating fixing holes for ease of installation.

With a standard 230V electrical supply and controlled via 0-10V input, varying duty points can be selected for each fan by the user.



Duplex fans

The duplex or twin scroll fan unit is basically two fans driven from a common motor which has a double shaft.

The purpose of the design is to provide air across a broad front, for example a water to air heat exchanger. They have an inherent advantage over the crossflow (or tangential) fan in that the forward curved centrifugal impellers have a better pressure development characteristic.

Compact fans



A range of compact single inlet direct drive fans that can achieve from 83 l/ sec to 146 l/sec where space is at a premium. The fans incorporate external rotor motors with integral tab lock constructed forward curved impellers dynamically balanced to grade 6.3 din ISO 1940.

Hot fans

Specifically designed direct drive fans to handle hot air or the products of combustion from gas burning appliances up to temps of 250°C.

There is an intermediate cooling impeller (an Airflow pioneering design) which eliminates the problem of short motor/bearing life which is commonplace when operating at these temperatures. The range covers from 62 l/sec to 120 l/sec.



Flue Gas Dilution fans

With the main advantage of avoiding the use of unsightly or expensive flues

The Institute of Gas Engineers UP 10/part 1 (issue 3) regulations require that if the products of combustion are dispensed at low level then the CO₂ content must be 1% or less. Airflows flue dilution range achieves this by introducing fresh air into the boilers discharge flue duct and diluting these flue gases. In two ranges GBDF and SSDF with 5 sizes in each range allow selection for



industrial and commercial boilers railed up to 650 Kw (2,200,000 Btu) singly and can be selected in parallel for boiler sizes exceeding this.

Technical general information

Airflow centrifugal fans are ideal general purpose units for ventilation, cooling and air moving applications where ambient temperatures do not exceed 40°C. The exceptions are Hot fans & Flue Dilution fans

A degree of speed control is possible with these ranges of fans, again excepting the Flue Dilution fans and Hot fan range.

Although more than adequately sealed and protected for general applications, these fans are unsuitable for handling explosive, inflammable, or highly corrosive gases or gas/ air mixtures.

Construction

Apart from the three smallest fans in the Single Inlet range the fan casings (scrolls) are manufactured from zinc coated sheet steel components spot-welded together to provide a very rigid construction. They are painted blue using modern powder spraying techniques which give a tough durable finish. The impellers are created from a continuous strip of formed blades which are "roll seamed" and locked into a back plate and inlet ring to provide a rigid, concentric impeller wheel.

Maintenance

The fans are generally designed for use in "normal" air movement conditions. Filters should be used where contaminants and dust burdens. It is an important periodic examination and if necessary, cleaning of the impeller is undertaken. This will avoid dust or dirt build-up on the blades which, if not removed, will impair the capabilities of the fan to move its designed air volume.

A Fan for all Applications

Is your application here?

Our fans have been successfully used in many diverse applications. The following is offered as a typical guide to our industrial fans and their applications. However, we are happy to advise on selecting the correct fan for your application.

HVAC

(Heating, Ventilating & Air Conditioning)



Air cleaners and fan/filter units Moving air through electrostatic, carbon, HEPA and other filter media Single inlet and fans 40BTFL to 83E2WL double inlet

Air conditioning units Distribution of conditioned air Generally double inlet types



Boiler combustion air fans (gas fired) Providing air or a gas/air mix to burners 40BTFL

Boiler/heater flue fans (gas fired) and gas fired overhead radiant tube heaters Assistance for exhausting the products of combustion to atmosphere 45BTFR-HT, 52BTX-HT, 71BTX-HT

Dehumidifiers (domestic & commercial)

Distribution of dehumidified air in homes, timber warehouses etc

Typically impellers or fan parts sizes 27 to 71

Door curtains

Warm air "curtain" at doorways, retail and industrial premises Double Inlet fans, Duplex fans

Fan coil units

Passing air over heat exchangers for heating, typically offices Duplex fans

Flue dilution fans

Dilutes combustion products from gas fired boilers to low level discharge The flue dilution GBDF and SSDF ranges

General air handling units (AHU'S)

"Central" plant for distributing air into a ventilation system, heated, filtered etc Generally the ranges of double inlet fans

General ventilation

Simple distribution of air through combination of ducts, grilles etc Generally the ranges of double inlet fans

Heat recovery units

Fans used for supply and extract. Supply fan collects heat from exhaust air 90G2WL (4 and 6-pole) 102H2WL14

- Industrial warm air heating Distribution of warm air lphw, steam and gas fired heat exchangers Double inlet fans eg. 102H2WL
- Oil burners

Provides combustion air for oil fired boilers Generally impellers only typically 45 and 52 sizes

 VAV (variable air volume) units Mixing of conditioned and re circulated air and distribution into offices

Double Inlet fans 71E2TIXR, 83F2WL, 90G2WL, 102H2WI

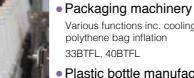
Production/process equipment

Air conveying

The transportation of lightweight product along ducts or channels 71 size impellers, ACF 160x62, 57DTLG90

Laminar Flow cabinets

Provide uniform, clean air flow across work stations, electronics mfgr. etc. 90G2WL, Duplex etc.



Various functions inc. cooling shrink wrap and polythene bag inflation 33BTFL, 40BTFL

Plastic bottle manufacturing Cooling mass produced plastic bottles used in the soft drinks industry 45CTL, 52B7XL

Plastic extrusion machines

Cooling extrusion barrels

Tank heaters

52BXL

45CTL, 52BTXL

Blowing hot combustion product down tubes for indirect heating of liquids 52BTXI

Printed circuit board manufacture

Cooling, testing and solder fume extract

- Tunnel ovens Heating, cooling and mass produced products 57BXL
- Vacuum forming machines Cooking large plastic components to speed up production cycle time 52BTXL

Electrical. electronics & optical

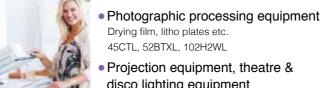
Electronic component cooling, general

To dissipate heat build up generated by components, within enclosures 21ATXL, 40BT Duplex and larger. Could be any fan size/type

Cooling of large motors & transformers

Forced ventilation through machines to keep temperatures within limits 52BTXL, 52DS, 57DT

Photocopiers Lamp cooling 33BT or similar



45CTL, 52BTXL, 102H2WL Projection equipment, theatre & disco lighting equipment Condenser lens cooling for conventional and laser light

ACF 120X62, 45BTFL

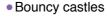
- Telecommunications; mobile phone transmitter cabins Ventilation of cabins containing transmitter electronics
- 90G2WL/6, 90G2WL/4, 102H2WL

Laboratory & medical equipment



- 90G2WL, various impeller sizes Laboratory ovens Hot air circulation
- Radial oven impellers 45BFR hot fans
- Medical isolation beds Supply of sterile air to highly contagious patients 40 Duplex - Single Inlet fans

Leisure



Inflation and maintenance of pressure Impellers for robust and portable fans, typically 52, 57 and 71 sizes - Single Inlet fans

Film & theatre special effects Smoke effect, flying effects etc. 90G2WL often used Double Inlet fans













Swimming pool domes

Inflates and maintains plastic dome over outside swimming pools 90G2WL Double Inlet fans

Domestic equipment/ appliances

- Cooker fans Circulation of hot air around oven cavity
- Commercial catering ovens Circulation of air warming and cooking ovens 26BTC 52BTXL (hot)
- Gas fire flue boosters Extract combustion products from "open" fires without a flue 40BTFL HT
- Microwave ovens (commercial) Cooling of the microwave magnetron 26BTC, 40BTFL, 45CTL
- Shower/steam cubicles Circulates warm air into shower 21ATXL Single Inlet fans

Miscellaneous

- Air tables for the clothing manufacturing industry Provides an air cushion to allow multiple layers of cloth to be moved for cutting
- 64ES Stool fan / Double Inlet fans
- Commercial catering ovens Circulation of air warming and cooking ovens 26BTC, 52BTXL (hot)
- Commercial vehicle ventilation Part of the heating and ventilation system in truck cabs, coaches and vans 40B2T Duplex (less motor) 45 impellers Single Inlet fans
- Grain conditioning Permanent trickle ventilation in grain silos and "spot cooling" with a tube spear Double Inlet fans and 52BTXL for the spot cooling
- Hydraulic oil coolers Driving air through oil cooling heat exchangers on transport vehicles Impellers only 52 to 76
- Laundry equipment Ventilation of industry ironing boards 52BTXL fans, 71D impellers
- Militarv Electronic cooling in sonar, radar equipment etc. 40B2T Duplex, 90G2W Double Inlet
- Vehicle washers Cooling pump motors 57B impellers and cases - Single Inlet fans











Single Inlet Small centrifugal fans



Key Features

- Ecodesign ErP 2015 compliant
- Smaller sized direct drive fans
- Excellent air flow / pressure capability for size
- High velocity at discharge from larger models for localised 'spot cooling'
- Easy installation
- Very low maintenance
- Quiet operation

Applications

- Filter units
- Electronic internal component cooling
- IC testing
- Cooling large motors and transformers
- Photocopiers
- Photographic processing equipment
- * Note Fans are not suitable for EEXE, EEXD, ATEX or corrosive atmospheres

Specifications

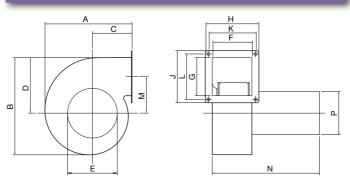
Driven by either open frame shaded pole, ventilated for life' bearings typically offering bearing life L10. 25,000 voltage shaded pole or permanent capacitor type motors, hours in ideal conditions. Test data in accordance with BS 848 Part1/ ISO 5801-2007. very low maintenance is achieved by incorporating 'sealed

* A degree of speed control is available on models 33BTFL, 40BTFL, 45CTL by voltage variation

Technical Data

| Fan Model | Supply voltage | Frequency | Capacitor value | Max running current | Start current (approx) | Max input watts | Max air flow | Min static pressure | Noise level | Speed at max air flow | Weight | Max ambient temp |
|-----------|----------------|-----------|--------------------|---------------------------|------------------------------|--------------------|--------------|------------------------|----------------|--------------------------|--------|------------------------|
| | Volts | Hz | μF | Amperes | Amperes | Watts | Litres/s | Pascal | dBA* | Rev/m | kg | °C |
| 21ATXL | 230 | 50 | N/a | 0.12 | 0.155 | 15 | 5.1 | 0 | 34 | 2720 | 0.7 | 40◆ |
| 26BTML | 230 | 50 | N/a | 0.12 | 0.155 | 15.5 | 18.2 | 0 | 40 | 2230 | 0.7 | 40♦ |
| 26BTCL | 230 | 50 | N/a | 0.12 | 0. 155 | 15 | 16.2 | 0 | 34 | 2180 | 0.9 | 40♦ |
| 33BTFL | 230 | 50 | N/a | 0.20 | 0.27 | 29.5 | 29.3 | 0 | 41 | 2380 | 1.3 | 40◆ |
| 40BTFL | 115 / 230 | 50 | N/a | 0.75 / 0.375 | 1.08 / 0.54 | 57 | 49 | 0 | 50.5 | 2500 | 1.5 | 40• |
| 45CTL | 115 /230 | 50 | N/a | 1.8 / 0.9 | 2.4 / 1.2 | 130 | 86.5 | 0 | 56.5 | 2330 | 2.4 | 40• |
| 52BTXL | 230 | 50 | 4 | 0.63 | 2.35 | 144 | 118.5 | 0 | 59 | 2835 | 3.5 | 40• |
| 57BXL | 230 | 50 | 4 | 0.81 | 155 | 187 | 128 | 0 | 63.5 | 2730 | 4.4 | 40• |

Dimensions



| Fan Model | Α | в | С | D | OE INLET | F INSIDE | G INSIDE | н | J | K CRS | L CRS | м | N | OP |
|-----------|-----|-----|----|------|-------------|-------------|-------------|-------|-------|----------|----------|------|-----|-----|
| 21ATXL | 85 | 88 | 43 | 49 | 42 | 28 | 34 | - | - | 47 | - | 30 | 90 | - |
| 26BTML | 102 | 116 | 46 | 66 | 57 | 52.4 | 41.3 | - | - | - | 50.8 | - | 114 | - |
| 26BTCL | 102 | 116 | 45 | 73 | 57 | 51 | 41 | - | - | - | 51 | - | 112 | - |
| 33BFTL | 130 | 135 | 62 | 76.5 | 67 | 57 | 46.4 | 83 | 72 | 70 | 60 | 53.3 | 125 | - |
| 40BFTL | 141 | 156 | 64 | 90 | 83 | 57 | 64 | 84 | 90.5 | 69.8 | 76.2 | 58 | 157 | 83 |
| 48CTL | 172 | 189 | 79 | 107 | 95.5 | 76 | 73 | 103 | 100 | 90.5 | 87.3 | 70 | 206 | 83 |
| 52BTXL | 195 | 216 | 89 | 124 | 111 | 64 | 89 | 117.5 | 117.5 | 88.9 | 73 | 78.5 | 175 | 100 |
| 57BXL | 214 | 232 | 98 | 131 | 133 | 64 | 89 | 117.5 | 117.5 | 88.9 | 73 | 85.7 | 175 | 100 |

Dimensions are for guidance only - certified drawings available

| - | |
|---|--|
| | |

Single Inlet fans

A comprehensive range of small single inlet fans primarily developed for the electronics market and manufacturing process. Suitable for handling ambient temperature to 40°C. Constructed in die cast metal, ABS plastic, or mild steel depending on model, the range can achieve

from 5.1 l/sec up to 128 l/sec. The majority of fans are ex-stock. Variance for OEM applications are available on request against a minimum order normally 100 off. Please apply to customer services for non standard designs.

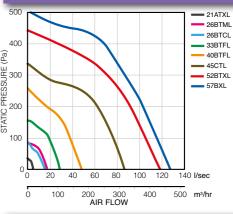






- Packaging machinery
- Plastic extrusion
- PCB manufacture
- Solder extraction fumes
- Microwave ovens
- Leisure applications, bouncy castle etc
- Car washers





Controls and Accessories



Double Inlet

Higher volume centrifugal fans



Key Features

- Ecodesign ErP 2015 compliant - depending on model
- Large range of standard fans to suit all applications ex-stock
- Designed for low noise requirements
- Speed controllable
- Greater pressure capability available on some models for higher resistances
- Solution to space critical applications
- In-built thermal protection
- Vertical and horizontal discharge mounting

Double Inlet fans

This range of fans are designed specifically for applications where low noise levels and/or space is an issue. Both models offer a good range of motor speed via voltage variation. Suitable for ambient temperatures of 40°C with inbuilt thermal protection. Dynamically

balanced to DIN ISO 1940 G. 6.3. OEM Variants are available on request. Please apply to customer services for non-standard design (Minimum order quantities will apply)



Applications

- Filter units
- VAV boxes
- Smaller AHUs
- Domestic heat recovery
- General ventilation
- Industrial warm air movement

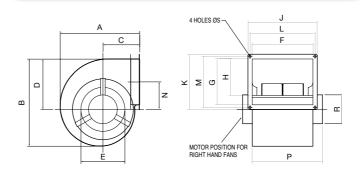
Specifications

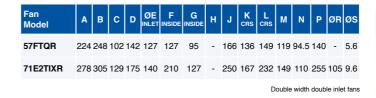
Models in this range feature forward curved impellers wired capacitor with terminal block. Low maintenance is constructed from aluminium with fan cases fabricated from achieved by using "Sealed for life" type bearings allowing mild steel. For ease of installation units have fitted outlet a typical bearing life L10-25,000 hours in ideal conditions. flanges which have pre drilled mounting holes. Units can Impellers are balanced at manufacture. Test Data in be mounted vertically or horizontally. For ease of electrical Accordance with BS 848 part 1/ISO 5801-2007. connection units are supplied with flying leads or pre

Technical Data

| Fan Model | Supply voltage | Frequency | Capacitor value | Max running current | Start current (approx) | Max input watts | Max air flow | Min static pressure | Noise Ievel | Speed at max air flow | Weight | Max ambient temp |
|------------|-------------------|-----------|--------------------|---------------------------|------------------------------|--------------------|-----------------|------------------------|----------------|-----------------------------|--------|------------------------|
| | Volts | Hz | μF | Amperes | Amperes | Watts | Litres/s | Pascal | dBA* | Rev/m | kg | °C |
| 57FTQR/4 | 230 | 50 | N/a | 0.53 | 0.75 | 92 | 125 | 0 | 48.5 | 1150 | 3.2 | 40• |
| 71E2TIXR/6 | 230 | 50 | 2 | 0.5 | 0.81 | 105 | 235 | 0 | 45.5 | 850 | 6.7 | 40• |

Dimensions

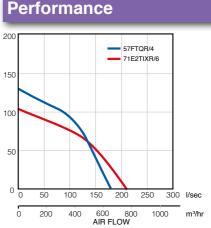






- Telecommunications / phone transmitter cabins
- Environmental chambers
- Special effects for the film industry
- Swimming pool / tennis court domes
- Clean air flow across workstations

*at 1 metre •Thermal Protection



Controls and Accessories



Compact Fans Narrow, high performance centrifugal fans

Key Features

- Ecodesign ErP 2015 compliant - depending on fan size
- 'Compact' Direct drive fans
- External rotor motor
- Engineered for significant benefits in performance and pressure development
- Designed for handling air within 'space critical' equipment
- Temperature up to 65°C

Applications

- Compact cooling in electronics / server cabinets
- Lighting and cinema equipment
- Smaller air conveying systems
- Fume cupboards
- * Note Fans not suitable for EEXE, EEXD, ATEX or corrosive atmospheres

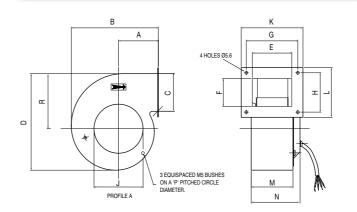
Specifications

This fan is eminently suitable for speed control via voltage sealed for life bearings, typically offering a bearing life variation due to the use of an external rotor motor. For L10-25,000 hours in ideal conditions. Fans are suitable for ease of electrical connection the unit is supplied with flying any plane mounting. Test data in accordance with BS 848 Part 1/ISO 5801-2007 leads. Very low maintenance is achieved by the use of

Technical Data

| Fan Model | Supply voltage | Frequency | Capacitor value | Max running current | Start current (approx) | Max ir wat |
|--------------|-------------------|-----------|--------------------|---------------------------|------------------------------|---------------|
| | Volts | Hz | μF | Amperes | Amperes | Wat |
| ACF120X62 L2 | 230 | 50 | 2 | 0.38 | 0.6 | 90 |

Dimensions



| Fan Model | Stock No. | Α | В | С | D | E | F | G | н | 1 | к | L | м | Ν | Р | R |
|-----------|-----------|----|-----|----|-----|------|---------|--------|---------|-------|--------|--------|--------|-------|-----|--------|
| 120x62 L2 | 72371701 | 77 | 170 | 74 | 189 | 77 | 70 | 100 | 92 | 95 | 120 | 112 | 83 | 97 | 134 | 106 |
| | | | | | | Dime | ancione | aro fo | or quid | lanco | only - | cortif | iod dr | owing | | ilablo |



ACF Compact fan

Airflow Development's compact direct drive fan can achieve 83 l/sec. This fan is specifically suited where space is at a premium. The fan incorporates an external rotor motor with integral tab lock constructed forward curved impeller. Impellers are dynamically balanced to grade 6.3 DIN ISO 1940. Fan casings are manufactured

from mild steel which is coated with a robust paint finish. Casings incorporate an output flange with integral fixing holes for ease of installation. OEM variant are available on request. Please apply to customer services for nonstandard design (Minimum order quantities will apply).





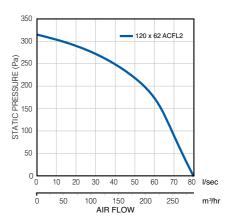


- Museum interactive displays
- Plastic manufacturing
- Any application demanding 'space critical' air movement
- Car washers



*at 1 metre Thermal Protection

Performance



Controls and Accessories



Duplex Blower

Wider discharge centrifugal fan



Key Features

- Ecodesign ErP 2015 compliant
- Twin scroll duplex arrangement
- Designed to deliver a volume where a wider discharge footprint is required
- Higher volumes achieved with quiet sound level from 41 dB(A)
- Low fan profile
- Excellent air velocity for process and electrical cooling

Applications

- Air curtains
- Laminar flow / clean air cabinets
- Fan coil units / heat exchangers
- Air convection systems
- Filtration systems
- * Note Fans not suitable for EEXE, EEXD, ATEX or corrosive atmospheres

Specifications

Driven by 2 pole dual voltage, motor, with impeller flanges, very low maintenance achieved by use of sealed constructed from aluminium within mild steel casing. for life bearings allowing a typical bearing life L10 – 25,000 Electrical connection is via flying lead on terminal block hours in ideal conditions. Test data in accordance with for ease of installation, normally via the pre-drilled outlet BS 848 Part1/ ISO 5801-2007.



Duplex fans

The duplex or twin scroll fan is driven by a common motor with two drive shafts. This fan is designed to provide air across a wider discharge footprint at a much larger volume but with a smaller physical profile, for example across each surface of a heat exchanger. Variance for OEM applications is available on request

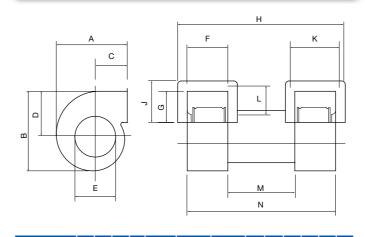
against a minimum order normally 100 off. Please apply to customer services for non standard designs.

The duplex fan covers up to 160 l/sec giving a definitive profile / volume advantage. Suitable for ambient air temperatures to 40°C.

Technical Data

| Fan Model | Supply voltage | Frequency | Capacitor value | Max running current | Start current (approx) | Max in watt |
|-------------|-------------------|-----------|--------------------|---------------------------|------------------------------|----------------|
| | Volts | Hz | μF | Amperes | Amperes | Watt |
| 40B2TX/2DUP | 230 | 50 | N/a | 1.12 | 1.6 | 154 |

Dimensions





Dimensions are for guidance only - certified drawings available

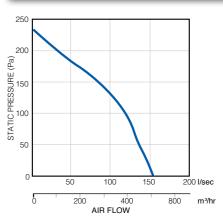




- Military applications
- Medical applications
- Clean room environment
- Fabric conditioning / drying







Controls and Accessories



A Fan for all Applications



Why Buy EC Fans?

ErP "Ecodesian" Directive EU 327 / 2011 - A few questions and choices explained

The European Union has adopted the Kyoto agreement and through the Regulation of Energy Related Products (ErP) and environmentally friendly design (Ecodesign) aims to reduce C0, emissions from their 1990 level by 20% by 2020.

What does the Regulation cover?

Minimum efficiency levels for commercial fans with an input power of between 125 Watts and 500 Kilowatts in the EU marketplace.

What is Efficiency

If you imagine you have to blow some air into a room with a standard AC fan (current technology), you have to use a certain amount of energy to do it. This is how to explain how efficient the fan is. With an EC fan (new technology) you use a lot less energy to do the same job and are therefore MORE efficient!

Which types of Commercial fans are affected?

Fans and motors of all types (axial, centrifugal with forward or backward curved impellers, and mixed flow fans) with an input power between 125W and 500Kw are affected.

When does the regulation come into force?

It's already here

1st Tier started in January 2013 with a set level of efficiency requirements.

2nd started January 2015 with a higher level of efficiency required.

What are AC and (DC) EC motors?

Electric motors can be divided into two types: alternating current (AC) electric motors and direct current (DC) electric motors. A DC electric motor will not run when supplied with AC current, nor will an AC motor run with DC current. However if you Electrically Commutate (EC) a DC motor will operate, hence the term EC motor.

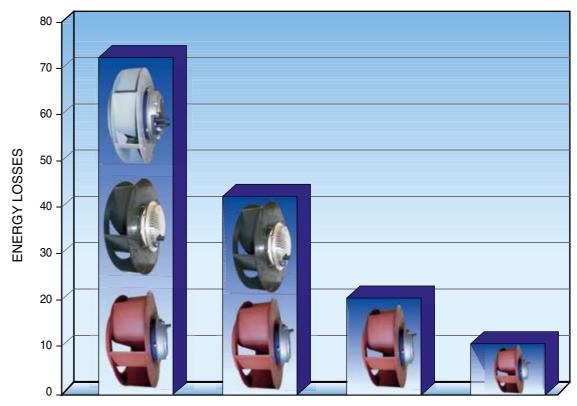
AC type fans – use AC or Alternating Current motors.

Of these types, brush electric motors are by far the most common. They are easy to build and very cost effective. Their major drawback is that they use carbon brushes to physically transfer electrical current to the rotating parts. In this transfer typical AC motors have losses in terms of power consumption (copper + iron losses), slippage and frictional losses (mechanical power). They are fairly in-efficient because they have to use more power to overcome these losses to maintain their performance.

EC type fans - use Electrically Commutated motors.

EC stands for Electronically Commutated and it combines AC and DC voltages, bringing the best of both technologies. A permanent-magnet brushless DC motor within the rotor is driven by electronic switches (which replace the carbon brushes), controlled by a microcontroller, and as such are electrically commutated. EC motors have no slippage thereby reducing losses and increasing efficiency to a high level.

MOTOR EFFICIENCY COMPARED AC / EC



AC Shaded pole motor AC Capacitor motor

Airflows EC fans

Our new EC range of single and double inlet fans are Whichever way you choose to use our EC fans as you fully compliant with the regulation and use up to 80% less would expect from Airflow, thanks to the union of high energy that standard AC fans would for the same job. efficiency EC motors and impeller design you can be assured of finding the correct Industrial ErP compliant fan So you can now replace your existing single or double for your application from our range, making Airflow the "natural" choice.

Inlet AC fan easily, with one of the range of NEW Airflow EC fans, or you can simply choose an EC fan for your new application.



3phase AC motor

EC motor

EC Single Inlet Fans

Small voltage controlled EC centrifugal fans



Key Features

- Ecodesign ErP 2015 compliant
- Compact size direct drive fans
- EC high efficiency motor
- Engineered for significant benefits in performance and pressure development
- Designed for handling air within 'space critical' equipment
- Tachometer output 0-10V
- Temperature up to 40°C
- EC motor variable speed control via voltage 0-10V Input
- Range of EC single fans ex-stock

Applications

- Compact cooling in electronics / server cabinets
- Lighting and cinema equipment
- Smaller air conveying systems
- Fume cupboards
- * Note Fans are not suitable for EEXE, EEXD, ATEX or corrosive atmospheres

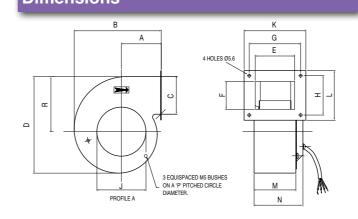
Specifications

The fans in this range are eminently suitable for speed for life bearings in the EC motors, typically offering bearing control via voltage variation 0-10V input and come supplied life L10. 25,000 hours in ideal conditions and can be with direct flying lead 230V and 0-10V connection to the universally mounted via flange. Test data in accordance motor. Very low maintenance achieved by use of sealed with BS 848 Part1/ ISO 5801-2007.

Technical Data

| Fan Model | Supply voltage | Frequency | Control voltage | Speed at Max input watts | Max input watts | Noise level | Min static pressure | Max air flow | Weight | Max ambient temp | IP | ErP 2013/2015 |
|----------------|----------------|-----------|-----------------|--------------------------------|--------------------|----------------|------------------------|-----------------|--------|------------------------|-------|------------------|
| | Volts | Hz | Volts | Rpm | w | dBA* | Pascal | L/S | kg | °C | | |
| SIEC 120x x 62 | 230 | 50 / 60 | 0-10v | 2800 | 55 | 58 | 0 | 78 | 2.1 | 40 | IP 24 | 1 |
| SIEC 133x x 46 | 230 | 50 / 60 | 0-10v | 2200 | 75 | 54 | 0 | 90 | 2.2 | 40 | IP 24 | 1 |
| SIEC 160x x 62 | 230 | 50 / 60 | 0-10v | 1310 | 80 | 58 | 0 | 115 | 3.2 | 40 | IP 24 | 1 |

Dimensions



| Fan Model | Stock No. | A | в | С | D | Е | F | G | н | J | к | L | М | Ν | Ρ | R |
|-------------|-----------|-----|-----|----|-----|------|------|--------|--------|------|--------|--------|--------|--------|--------|--------|
| 120 x 62 L2 | 9000365 | 78 | 174 | 75 | 192 | 82 | 75 | 100 | 92 | 94 | 120 | 112 | 85 | 127 | 134 | 107 |
| 133 x 46 L2 | 9000366 | 81 | 197 | 92 | 230 | 73 | 92 | 85 | 110 | 108 | 105 | 130 | 75 | 115 | 146 | 119 |
| 160 x 62 L2 | 9000367 | 104 | 231 | 97 | 268 | 83 | 97 | 100 | 112 | 138 | 120 | 132 | 86 | 127 | 162 | 142 |
| | | | | | Di | mens | ions | are fo | r guid | ance | only - | certif | ied dı | rawing | js ava | ilable |



EC Single Inlet fans

A range of compact high efficiency driven EC fans that achieve from 83 l/s to 115 l/s and fully comply to the minimum efficiency regulation rates of ErP 327/2011 - 2013 and 2015. The fans incorporate integrated EC type motors with tablock constructed forward curved impellers dynamically balanced to grade 2.5 DIN ISO 1940. Constructed from mild steel with a robust paint finish, each fan casing is fitted with an outlet flange

incorporating fixing holes for ease of installation. Simply choose a compliant EC fan for your new high efficiency application.

OEM variant are available on request. Please apply to customer services for non-standard design (minimum order quantities will apply).

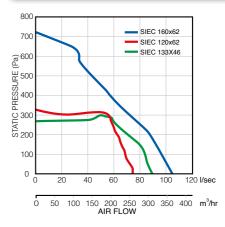






- Museum interactive displays
- Plastic manufacturing extrusions
- Any application demanding 'space critical' air movement





EC Double Inlet Fans

Higher volume voltage controlled EC centrifugal fans



Key Features

- Ecodesign ErP 2015 compliant
- Large range of standard fans to suit many applications - ex-stock
- EC high efficiency motor
- Designed for low noise requirements
- Speed controllable 0-10V input
- Excellent pressure capability throughout the range
- Solution to space critical applications
- Tachometer output 0-10V
- Vertical and horizontal discharge mounting

EC Double Inlet Fans

A large range of high efficiency EC fans designed specifically for applications where low noise levels and/ or space criticality are an issue. All models offer a good range of volume control via 0-10V input, due to the high efficiency EC motor. Exceeding minimum regulation efficiency requirements for EU 327/2011 - 2013 and 2015. These fans allow you to choose a high efficiency

EC fan for your new application or replace a less efficient model in your existing application. See technical data table for replacement comparison.

OEM variants are available on request. Please apply to customer services for non-standard design (minimum order quantities will apply)





Applications

- VAV boxes
- Waste recycling
- General ventilation
- Industrial warm air movement
- Telecommunications / phone transmitter cabins

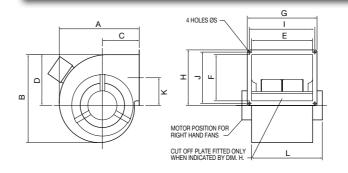
Specifications

These fans feature EC driven forward curved impellers constructed from mild steel with cases fabricated from mild steel. For ease of installation all units have fitted outlet flanges, and can be mounted vertically or horizontally. Supplied with connection to terminal box from electrical

Technical Data

| Fan Model | Supply voltage | Frequency | Control voltage | Speed at Max input watts | Max input watts | Noise level | Min static pressure | Max air flow | Weight | Max ambient temp | IP | ErP 2013/2015 | Replaces Airflow Fan |
|------------|-------------------|-----------|-----------------|--------------------------------|--------------------|----------------|------------------------|-----------------|--------|------------------------|-------|------------------|-------------------------|
| | Volts | Hz | Volts | Rpm | Watts | DBA | Pascals | l/sec | Kg | °C | | | |
| DIEC-178 | 230 | 50/60 | 0-10 | 1600 | 55 | 47 | 0 | 165 | 6.8 | 45 | IP 24 | 1 | 64E2SR 71E2TIXR |
| DIEC-215 | 230 | 50/60 | 0-10 | 1050 | 200 | 50 | 0 | 465 | 9 | 50 | IP 20 | 1 | 83F2WL/6 |
| DIEC-222 | 230 | 50/60 | 0-10 | 1550 | 550 | 60 | 0 | 1020 | 14 | 40 | IP 20 | 1 | 90G2WL/6 90G2WL/4 |
| DIEC-270 | 230 | 50/60 | 0-10 | 1550 | 1100 | 65 | 0 | 1200 | 22 | 40 | IP 20 | 1 | 102H2WL/6 102H2WL/4 |
| DIEC-178/2 | 230 | 50/60 | 0-10 | 1550 | 550 | 57 | 0 | 668 | 7 | 40 | IP 20 | 1 | 76E2WL/4 |
| DIEC-215/2 | 230 | 50/60 | 0-10 | 1550 | 550 | 65 | 0 | 750 | 7 | 40 | IP 20 | 1 | 83F2WL/4 |

Dimensions



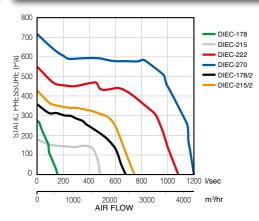
| Fan Model | А | в | с | D | E | F | G | H | Т | J | К | L |
|------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| DIEC 178 | 277 | 302 | 138 | 176 | 204 | 103 | 250 | 164 | 232 | 146 | 83 | 265 |
| DIEC 215 | 332 | 366 | 149 | 207 | 249 | 256 | 300 | 276 | 270 | 212 | 138 | 324 |
| DIEC 222 | 364 | 392 | 167 | 219 | 284 | 255 | 347 | 286 | 319 | 257 | 142 | 357 |
| DIEC 270 | 422 | 442 | 202 | 246 | 329 | 281 | 409 | 346 | 384 | 270 | 173 | 409 |
| DIEC 178/2 | 309 | 322 | 147 | 182 | 228 | 217 | 296 | 265 | 272 | 241 | 132 | 320 |
| DIEC 215/2 | 332 | 366 | 149 | 207 | 245 | 252 | 300 | 276 | 270 | 212 | 138 | 353 |



- Environmental chambers
- Special effects for the film industry
- Swimming pool / tennis court domes
- Clean air flow across workstations

supply. Low maintenance achieved by 'sealed for life' type bearings allowing a typical bearing life L10 - 25,000 hours at ideal conditions. Impellers balanced to ISO DIN 1940 Grade 2.5. Test data in accordance with BS 848 Part1/ ISO 5801-2007.

Performance



Flue Gas Dilution

CO₂ safe dispersal ventilation



Key Features

- Multi size flue dilution fans
- Ecodesign ErP 2015 compliant
- Easy electrical installation
- Safe operation internal differential pressure switch for boiler shut off
- Avoid unsightly or expensive discharge flues
- Quiet and efficient
- 1% Co, content at outlet
- High levels of corrosion resistance allow use with condensation boilers
- Ecodesign EuP compliant IE2
- Dynamically balanced to DIN ISO 1940 -Grade 6.3

Flue Dilution GBDF & SSDF fans Safety

Their main advantage is avoiding the use of unsightly and expensive flues as shown below. The 1993 Clean Air Act and Institute of Gas Engineers UPE 10/Part 1 (issue 3) Regulations requires that if the products of combustion are dispensed at low level then the CO₂ content must be 1% or less. Airflows' flue dilution range achieves this by introducing fresh air into the boilers discharge flue duct and diluting these flue gases. All fans dynamically balanced to ISO DIN 1940 - Grade 6.3.

A differential pressure safety switch ensures boiler

shutdown in the event of fan failure on blocked flue, the switch consists of a relay circuit which will fall safe and prevent operation of the gas burner under the following conditions.

- Loss of fan air supply (blocked intake / fan motor inlet)
- Stalled fan motor
- Interrupted power supply





Applications

- Flue dilution
- Condensate air handling

The range of dilution fans come in two variations, GBDF When the specification of regulations call for stainless steel for standard atmospheric installations and SSDF for ducting and when higher efficiency condensate boilers on enhanced corrosion resistance especially in use with high modular burners are more likely to produce condensation condensate content and or condensation boilers. 5 sizes the SSDF range should be selected due to its Aisi 316 stainless steel case construction. Test data in accordance in each range allow selection for industrial and commercial boilers rated up to 650 Kw (2,200,000 Btu). with BS 848 Part 1/ ISO 5801-2007.

Choosing the Correct Size and Type of Fan

Where possible there should be at least 2 metres of flue The volume flow rate provided by the fan will depend on the static pressure imposed by the size and length of flue ducting from the fan to the outlet. To ensure a maximum of 1% CO₂ content at the outlet, the volume flow rate of ducting and the number of bends, louvres etc. comprising diluted flue gases necessary for a given boiler can be the installation. The performance table below enables calculated as follows: selection of the correct dilution fan based on the flow rate requirement and the fans ability to overcome duct system Flow rate in l/sec = 2.69 x rated input of boiler in kW. resistance.

Where 2 metres of discharge ducting is not possible then the calculation is:

Flow rate in l/sec = 4.44 x rated input of boiler in kW.

Performance Table at 20°C

| Fan size | Static Pressure (Pascals) | Free Air | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 160 | 180 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 |
|------------------|---------------------------------|-------------|-----|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| GBDF 2 SSDF 2 | Volume Litre/s | 300 | 290 | 280 | 260 | 250 | 240 | 230 | 220 | 190 | 140 | 80 | 40 | 0 | | | | | | | | | | | | |
| GBDF 3 SSDF 3 | Volume Litre/s | 600 | 580 | 570 | 560 | 540 | 520 | 510 | 500 | 480 | 460 | 440 | 410 | 380 | 320 | 280 | 120 | 40 | 0 | | | | | | | |
| GBDF 4 SSDF 4 | Volume Litre/s | 1000 | 985 | 970 | 950 | 935 | 920 | 900 | 880 | 860 | 840 | 815 | 780 | 760 | 740 | 710 | 640 | 520 | 340 | 200 | 80 | 0 | | | | |
| GBDF 5 SSDF 5 | Volume Litre/s | • | — N | IOT S | UITAE | BLE D | о NO. | T USE | | | 1400 | 1370 | 1350 | 1325 | 1300 | 1260 | 1200 | 1150 | 1075 | 975 | 850 | 450 | 200 | 80 | 0 | |
| GBDF 6 SSDF 6 | Volume Litre/s | • | | | | — N | OT SI | JITAB | LE DO | O NO | TUSE | = | | | | | | 1750 | 1675 | 1570 | 1420 | 1280 | 1085 | 850 | 625 | 460 |

| Fan size | Units | GBDF 2 SSDF 2 | GBDF 3 SSDF 3 | GBDF 4 SSDF 4 | GBDF 5 SSDF 5 | GBDF 6 SSDF 6 |
|--------------------------------------|-------|------------------|------------------|------------------|------------------|------------------|
| Maximum boiler input rating | kw | 80 | 160 | 270 | 425 | 650 |
| Minimum inlet duct diameter | mm | 254 | 305 | 305 | 457 | 457 |
| Minimum inlet louvre size | mm | 300x300 | 400x400 | 400x400 | 600x600 | 600x600 |
| Maximum discharge duct diameter | mm | 225 | 275 | 345 | 370 | 457 |
| Minimum discharge grille size | mm | 300x300 | 400x400 | 450x450 | 500x500 | 600x600 |
| Diluted flue gas volume | l/s | 215 | 430 | 730 | 1145 | 1750 |
| Total static pressure loss in system | Ра | 70 | 93 | 130 | 160 | 180 |
| Maximum flue velocity | m/s | 5.5 | 7.3 | 7.9 | 10.7 | 10.7 |



(Note: if LPG or Butane are being used then the factors above should be increased to 3.23 and 5.33 respectively. These flue dilution fans must not be used for any other fuels).

Dimensions are for guidance only - certified drawings av

| Fan size | Min. Duct resistance | Max. Line current |
|------------------|----------------------|----------------------|
| GBDF 5 SSDF 5 | 90 Pa | 2.6 Amps |
| GBDF 6 SSDF 6 | 180 Pa | 2.9 Amps |

Minimum duct resistance required on model size 5 and 6 to avoid overloa

Electrical Installation

In all classes of installation, it is essential that the pressure safety switch is connected into the supply circuit of the appliance gas valve so that the gas valve is shut off in the event of a fan failure or flue system blockage. After the fan has been installed and electrically connected, a check should be made to ensure that the pressure safety switch causes the boiler to be switched off when failure or blockage is simulated.

Flue Assistance

The GBDF range can also be used for flue assistance rather than flue dilution (ie: the fan handles all the products of combustion). It is important that the air into the motor side of the fan is ducted from outside the building. The maximum temperature allowed at the inlet of the non drive side of the fan is 110°C (230°F) to maintain acceptable motor bearing and winding temperature. Experience has shown that if a fan is chosen to give a maximum CO, concentration of 2% that this maximum temperature will not be exceeded.

Should you wish to use any of our fans purely as an induction fan WITHOUT dilution then the volume rate needed will be :

Flow rate (induction only) in l/sec = 1.35 x rated input of boiler in Kw.

Safety and Ease of Use



 Differential pressure safety switch which will activate if the fan stops operating or if the duct system becomes blocked, thus shutting down the boiler.



•6 or 10 pole plug and socket for easy wiring and installation.

Easier electrical connections

The Range

The Airflow range of Ecodesign ErP 2013/2015 Compliant flue dilution fans is available in 5 sizes to satisfy the dilution needs of industrial and commercial boilers rated up to 650 kW (2,200,000 Btu) input.

Each size is available in standard form (GBDF series) for atmospheric boilers and water heaters of circa 75% efficiency. If excessive corrosion causing the failure of a GBDF series unit is due to the presence of residual condensate, then this will not be covered by our warranty.

Enhanced corrosion resistance versions (SSDF series) with stainless steel fan cases are also available for installation where regulations or the specification calls for stainless steel ducting, and when higher efficiency boilers such as modular designs are likely to produce condensation. SSDF's are therefore recommended for installations where condensation will occur.

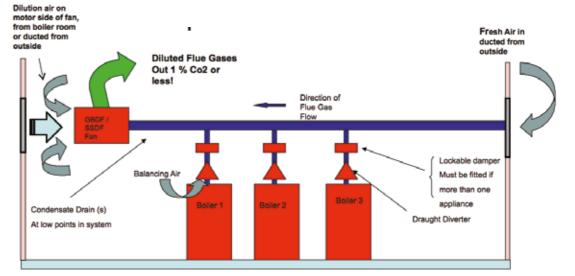


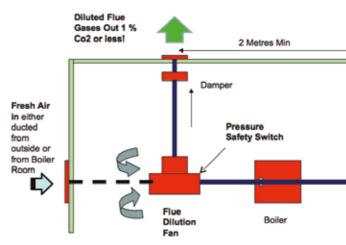
Typical Installations

Important when designing and installing a dilution system incorporating Airflow flue dilution fans, attention should be paid to the latest edition of the following standards and guides.

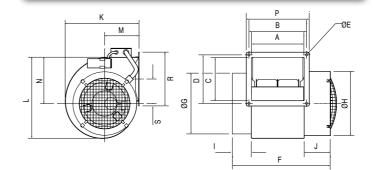
- (i) BS 6644: 2005 Installation of gas fired hot water boilers of rated input between 60 kW and 2 MW.
- (ii) The institute of Gas Engineers and Managers Utilization procedure IGE/UP/10-Edition 3. Installation of Gas Appliances in Industrial & Commercial premises.

The boiler is connected by a vertical flue to a header which is open to the "outside" air at both ends. One end of the header acts as the primary air intake for the dilution air and the other as the discharge. The fan is located on the discharge side of the header duct.





Dimensions



| Fan size | Weight Kg | weight | weignt | weight | weight | weight | weight | Electrical supply | Start current | Full load running current | power | Normal Imp. speed | ambient | Fan | Minimum clearance | |
|------------------|--------------|----------------------|-----------------|---------------|--------|--------|--------|-------------------|------------------|---------------------------------|-------|-------------------------|---------|-----|----------------------|--|
| 5120 | ку | V/Ph/Hz | Amps | Amps | Watts | RPM | Temp. | size | mm | in. | | | | | | |
| GBDF 2 SSDF 2 | 9.1 8.8 | 230/1/50 230/1/50 | 1.2 | 0.64 | 75 | 900 | 40°C | GBDF 2 | 250 | 10 | | | | | | |
| GBDF 3 SSDF 3 | 12.1 12.0 | 230/1/50 230/1/50 | 2.5 | 1.45 | 120 | 860 | 40°C | GBDF 3 | 300 | 12 | | | | | | |
| GBDF 4 SSDF 4 | 22.5 23.4 | 230/1/50 230/1/50 | 8.4 | 2.8 | 335 | 930 | 40°C | GBDF 4 | 460 | 18 | | | | | | |
| GBDF 5 SSDF 5 | 42.8 44.0 | 415/3/50 415/3/50 | 12.0* (line) | 2.8* (MAX) | 900 | 940 | 40°C | GBDF 5 | 500 | 20 | | | | | | |
| GBDF 6 SSDF 6 | 46.7 47.5 | 415/3/50 415/3/50 | 12.0* (line) | 2.9* (MAX) | 900 | 900 | 40°C | GBDF 6 | 630 | 25 | | | | | | |

*Line currer arance for servicing motor and impeller (between motor side inlet and a





Figure 1. **GBDF/SSDF** Flue Dilution Fan **Multiple Boiler** Installation

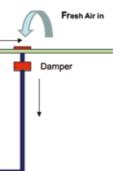
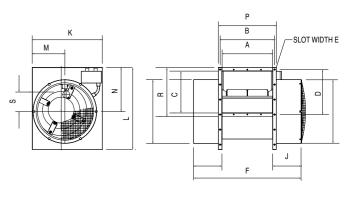


Figure 2. **GBDF/SSDF Flue Dilution Fan** Single Boiler Installation



| Fan size | Α | в | С | D | Е | F | G | Н | I | J | к | L | М | Ν | Р | R | s |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 2 | 218 | 238 | 179 | 200 | 9.5 | 402 | 251 | 265 | 78 | 106 | 304 | 335 | 140 | 191 | 260 | 222 | 101 |
| 3 | 250 | 270 | 236 | 257 | 9.5 | 440 | 302 | 302 | 78 | 109 | 359 | 394 | 175 | 222 | 294 | 281 | 109 |
| 4 | 352 | 384 | 263 | 295 | 9.5 | 578 | 302 | 340 | 78 | 141 | 408 | 445 | 194 | 256 | 409 | 321 | 121 |
| 5 | 360 | 386 | 298 | 321 | 7 | 761 | 454 | 454 | 200 | 200 | 500 | 585 | 233 | 314 | 411 | 350 | 145 |
| 6 | 490 | 517 | 332 | 355 | 7 | 892 | 454 | 454 | 200 | 200 | 500 | 585 | 232 | 336 | 542 | 348 | 145 |





Key Features

- Can move air at temperature up to 250°C
- Ecodesign ErP 2015 compliant
- Wide range of installation positions
- Intermediate cooling impeller minimises heat to motor and bearings ensuring long life
- Polyester high temperature paint
- Gas 'Tight' casing option available

Applications

- Overhead radiant tube heating
- Domestic and commercial ovens
- Boiler / heater flue fans
- Gas fire flue boosters
- * Note Fans not suitable for EEXE, EEXD, ATEX or corrosive atmospheres

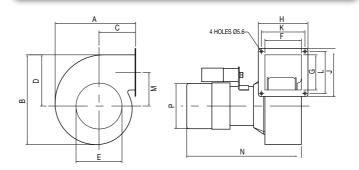
Specifications

Aluminium or mild steel impellers, housed in Zintec mild into the inlet face of the fan casing. Motors either shaded steel casing, finished in black polyester high temperature pole or permanent capacitor type using low maintenance paint. Totally enclosed motors with integrated cooling sealed for life bearings ensuring a typical bearing life L10 impeller ensuring extended trouble free motor life, fitted - 25,000 in ideal conditions. Electrical connection is via 3 with motor guard arrangement as standard. Able to be core cable for ease of installation. Test data in accordance mounted from outlet flange or threaded inserts incorporated with BS 848 Part 1/ ISO 5801-2007.

Technical Data

| Fan Model | Supply voltage | Frequency | Capacitor value | Max running current | Start current (approx) | Max input watts | Max air flow | Min static pressure | Noise Ievel | Speed at max air flow | Weight | Max ambient temp |
|-----------|----------------|-----------|--------------------|---------------------------|------------------------------|--------------------|--------------|------------------------|----------------|--------------------------|--------|------------------------|
| | Volts | Hz | μF | Amperes | Amperes | Watts | Litres/s | Pascal | dBA* | Rev/m | kg | °C |
| 45BTFHT | 230 | 50 | N/a | 0.55 | 0.75 | 85 | 60 | 25 | 53 | 2330 | 2.4 | 40• |
| 52BTXHT | 230 | 50 | 2 | 0.53 | 1.03 | 125 | 102 | 54 | 58 | 2600 | 3.3 | 40• |

Dimensions







Specifically designed direct drive fans to handle hot air or from 62 l/sec to 120 l/sec. Variant OEM Applications the products of combustion from gas burning appliances up to temperature of 250°C. The intermediate cooling impeller, an Airflow pioneering design, eliminates the problem of short motor/bearing life. The range covers

are available on a made to order basis, (depending on quantities required) please apply to customer services for non standard designs.

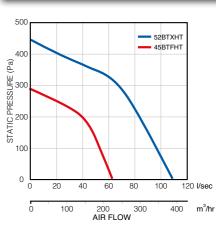






Hot air extraction • UV lamp cooling for printing Tunnel curing

*at 1 metre •Thermal Protection



Performance

airflow.com



Instrument

Why measure airflow?

The Domestic Ventilation Compliance Guide 2010 requires measurement of fans and ventilation systems to a regulatory standard of installed performance. The Airflow vane anemometer provides this function.

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airflow.com

Instrument Solutions

LCA301 anemometer kit



LCA301

The LCA301 Vane Anemometer kits enables on-site measurement to be taken and air volumes calculated for balancing and commissioning ventilation systems, compliant to the testing requirements of the Domestic Ventilation Compliance Guide 2010.

Simple one handed operation and a large clear LCD ensures that velocity or volume flow reading of air measurement is quick, reliable and accurate.

Supplied with the LCA301 is a 285 x 235 Aircone to attach to the vane sensor.

The LCA301 has a single push button control in the hand grip. When the button is pushed and held down the instrument averages the air velocity every 3 seconds up to 12 minutes duration with the average reading shown on the LCD.



Key Features

- UKAS certificate of calibration
- Compliant to testing requirements of **Domestic Ventilation Compliance Guide 2010**
- Aerodynamic design
- Volume flow in m³/hr or l/sec
- Velocity in m/sec
- Self sealing hood 285 x 235mm
- Tough ABS to take on-site knocks
- 2 year warranty

| Function | Parameter |
|---|--|
| Velocity range | 0.25 to 30 m/s (50 to 6.000 ft/min) |
| Velocity accuracy | ±1.0% of reading ±0.02 m/s (±4 ft/min) |
| Duct size | 0.00399 - 90 m² (0.043 - 173.6 ft²) |
| Volumetric flow rate | Actual range is a function of velocity and duct area |
| Temperature range | 0 to 60°C (32 to 140°F) |
| Accuracy | ±1.0°C (±2.0°F) |
| Resolution | 0.1°C (0.1°F) |
| Instrument temperature range operating | 0 to 60°C (32 to 140°F) |

Part No. **Product Description** 90000017 LCA301 Vane Anemometer Kit



LOG32 TH DATA LOGGER



LOG32 TH

The Airflow LOG32 TH is a portable battery operated Data Logger. Designed for diagnostic analysis of environmental conditions in commercial, production, laboratories, agriculture or any temperature and humidity critical application.

Powered by a long life Lithium battery it is suitable for recording, alarm tracking and display of air temperature, humidity and dew point. An integral USB port enables direct connection to any compatible device where the Windows software (supplied) can be uploaded.

A flashing green LED indicates data recording, while a red LED indicates an adjustable user set point has been exceeded. The logger also has an internal buzzer to support user set alarm conditions.





Key Features

- Temperature and Humidity Logger
- Up to 32,000 value storage
- Analytical software supplied (Windows)
- Variable time sampling 2 seconds to 24 hours
- Wall mounting bracket supplied
- LED mode indicators/buzzer alarm
- 1 year warranty

| Function | | Parameter |
|----------------|---------------------|--|
| Memory storag | je (total) | 32,000 values |
| Temperature | | 16,000 values |
| Humidity | | 16,000 values |
| Measuring rang | ge – temperature | - 35° to 70° |
| Accuracy | | ± 1°C (-10o to 40°C) ± 2°C (41o to 70°C) |
| Measuring rang | ge – humidity | 0 to 100%RH |
| Accuracy | | ± 3% RH (40% to 60%) ± 3.5% RH (20% to 40%) ± 3.5% RH (60% to 80%) |
| Interface | | USB (integrated) |
| Housing | | ABS |
| Dimensions | | 98 x 25 x 20mm |
| Weight | | 70g |
| Battery | | 1 x 3.6v Lithium AA battery |
| Part No. | Product Description | |

90000536

LOG32 TH Data Logger



Air Flow Solutions

QuietAir

The quietest bathroom fans*





* On both speeds, the QuietAir 100 meets the installed performance requirements when ducted as per the Domestic Ventilation Compliance Guide of the current Building Regulations Approved Document F. Sound level of 25 dB(A) on low speed.

For further information see pages 46 - 51





- 100mm, 120mm and 150mm high performance fans for toilet, bathroom, utility and kitchen ventilation
- Eco Start (delay start)
- Whisper quiet
- Ultra low energy
- **Ball bearing motor**
- Room refresh, programmable routine ventilation
- Two speed with a choice of controls
- Suitable for long duct runs
- IP45

270

Complies Building Regulations and domestic compliance guide



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Glossary of Terms

A guide to words and phrases commonly used

Air

A gas comprising the following constituents (when dry): 78.09% nitrogen 20.95% oxyger 0.93% argon 0.03% carbon dioxide

Air density

The ratio of the mass of a given amount of air to the volume which this amount occupies (ie lb/ft3 or kg/m3)

Secondary air Room air entrained and set in motion by air discharge from a grille

Air Changes

A method of calculating the number of times air can be exchanged in a room or space by calculating its volume and dividing this value by the air volumetric performance of the fan in order to establish its suitability for the application. In commercial premises CIBSE guidelines should be followed to determine air change rates.

Anemometer

An instrument used for the measurement of air velocity and air volume.

Hot wire anemometer

This has a probe consisting of a very fine short length of wire (or small thermistor bead) attached to the end of a supporting tube. The wire is heated electrically, and measurements are made of the heat dissipated by the wire. The rate of heat dissipation is directly related to the velocity of the air passing the wire.

Rotating vane anemometer

This consists of a disc of angled vanes attached to a rotating spindle and is usually mounted within a protective ring and supporting bracket. The speed at which the vane assembly rotates is a measure of the air velocity acting upon it. This speed may be sensed electronically or by a counter mechanism.

Attenuators

Devices for reducing the amplitude of a source of energy. Often used in a noise control device to reduce unwanted sounds

BCO

A Building Control Officer or Building Inspector who ensures that Building Regulations are followed during construction and signs off the project.

Bernoulli's theorem

This says that the total energy per unit mass along any one stream line in a moving fluid is constant, and that the states in which that energy exists (pressure, kinetic or potential) are related and convertible.

BIM

Building Information Modelling. By 2016 all U.K Government buildings will have to be designed with BIM 3D software as the core design tool. The software enables complete data sets to be attached to components and structures.

By- Pass

A device within a Mechanical Ventilation with Heat Recovery (MVHR) unit to bypass the heat exchanger during the Summer months enabling the recirculation of ambient air. A 100% by-pass is most efficient.

BRE

Building Research Establishment. A private research establishment that carries out testing and consultancy for the build environment. The organisation responsible for operating SAP Appendix Q testing.

Coanda effect

The tendency for an airstream under some circumstances to attach itself to and follow the shape of a surface. This can occur even for extremely convex curvatures

CPD

Continuing Professional Development. The on-going learning process whereby professionals maintain, update and increase the knowledge and skills in their chosen career

Competent Person

An individual who has completed a nationally recognised training scheme allowing them to "self certify" that their work complies with the Building Regulations.

Damper

A device used to control the volume of air passing through a confined cross section by varying the cross-sectional area.

Diffuser

An outlet device discharging supply air in a direction radially to the axis of entry.

dMEV

Decentralised Mechanical extract Ventilation. A method of continuous ventilation of a dwelling using extractor fans in wet rooms. An allowable solution under system 3 of Approved Document F.

Dynamic loss

The energy lost when an airstream travelling at a known velocity is forced to make a sudden change in direction or velocity

EC Motor

An electronically commutated motor running on DC voltage from an AC input. Avoiding the use of a transformer the motor incorporates voltage change resulting in a less bulky and more energy efficient performance

Energy

Potential energy

The energy of a fluid or body due to its position (or height)

Kinetic energy

This energy which a fluid or body possesses by virtue of its motion.

Fan

Axia

A rotating propeller type device where the air is moved in the same direction as the inlet and outlet of the fan. Providing high air flow in a slim profile they are ideal for through the wall installation. Suitable for short lengths of ducting only.

Mixed Flow

A hybrid combination of an axial and centrifugal fan impeller where the air is moved in the same direction as the inlet and outlet of the fan. Provides higher pressure development than an axial fan so suitable for short to medium lengths of ducting.

Centrifugal

Quiet and powerful and suitable for wall, ceiling and ducted installations. Similar in design to a hamster wheel they work efficiently against system resistance making them perfect for longer duct runs.

Fan Curve

The fundamental performance of a fan or blower with the X axis expressed in pressure and the Y axis expressed in volume flow.

Frost Protection

Used in MVHR equipment to prevent moisture freezing in the heat exchanger and allied parts.

Grille

A system of fixed or adjustable vanes covering an opening through which air is discharged.

Return grille

A grille covering an opening through which air is withdrawn from the conditioned space.

Heat Exchanger

A device designed to efficiently transfer heat from one air stream to another, as in MVHB. At no time does the warm and colder air mix but a Metal or Polypropylene core may be used to transfer heat at different temperatures.

IEEE

Institute of Electrical and Electronic Engineers

Inlet device

A shaped air intake with pressure tappings that can be calibrated and used to measure air flow rate (e.g. bellmouthed or conical inlets).

IP Rating

The degree of protection afforded by a casing against the ingress of solid objects and liquids. Designated by IPXX

The first figure is for solid objects rated from 0 (no protection) to 6 (total protection)

The second figure is for Liquid from 0 (no protection) to 9 (protection against long periods of immersion under pressure).

MEV

Mechanical extract ventilation. A description usually applied to a central extract system as defined in System 3 of Approved Document F.

MVHR

Mechanical Ventilation with Heat Recovery. Equipment to regain warmth from otherwise waste extract air and supply to living spaces providing warm, filtered fresh air.

Notifiable Work

Activities which require compliance with the Building Regulations, approval by Building Control.

Passive House

A term referring to a very high standard of energy efficiency in a buildings design and construction. Typically a dwelling would have an air tightness level better than 1.5 m³/hr/m

Pressure

Air pressure

The force per unit area imposed on the surface of a solid body by gaseous air. Absolute pressure

Pressure relative to a perfect vacuum

Barometric pressure

The local ambient air pressure

Differential pressure

The difference between pressures measured at two points or levels in a system. Static pressure

The difference between the absolute pressure at a point in an air stream or a pressurised chamber and the absolute pressure at ambient temperature. This is positive when the pressure at that point is above ambient pressure, and negative when below. It acts equally in all directions and is independent of velocity.

Velocity pressure

The increase in pressure produced by bringing a moving airstream to rest (as measured by a pitot static tube). It is equal to the product of air density and the



square of the velocity divided by 2, and is sometimes known as the velocity head or dynamic pressure

RCD

A residual current device is a life saving compnent designed to disconnect an electrical circuit when it detects the electrical current is un-balanced An unbalanced circuit can cause a short circuit to occur causing possible harm and electricution to an individual

Relative humidity

The relative humidity of an air/water vapour mixture is the ratio of the vapour pressure existing to the saturated vapour pressure for the same dry-bulb temperature. Expressed as a percentage

SAP

Standard Assessment Procedure. An assessment of the energy efficiency and carbon index of a new dwelling. SAP energy ratings are part of the Building Regulations

SBEM

Simplified Building Energy Model. A tool used to calculate the energy performance of non-domestic buildings to assist compliance with Approved Document L of the Building Regulations.

SELV

Safety Extra Low Voltage fans use a 12 or 24volt electrical supply which means that they can be safely installed within a zone 1 area specified by the IEE Wiring Regulations

Specific Fan Power (SFP)

The efficiency of a fan may be described by a numerical value calculated by dividing the operating watts (w) by the air flow rate in L/sec at that power. The value is not fixed and will vary with the fluctuating duty/air flow of the fan. ie: A fan operating at 10 watts with an air flow rate of 25 l/sec would have an SFF 0.4 w/L/sec.

Standard conditions (STP)

The standard temperature and pressure used to define STANDARD AIR, which has a density of 1.2 kg/m3 (16°C and 1000 mbar at 55% RH)

TER/DER

Predictions of Carbon Dioxide emissions in a new dwelling are calculated as a target value (TER) A dwellings actual as built emission rate (DER) is based on all the elements included, i.e. 'U' Values, heating, lighting, overheating and fabric construction. DER should not exceed TER or the building will fail under SAP.

Terminal

One outlet of a ductwork system. Generally the entrance from which air is supplied to a room and the point at which a grille is fixed.

'U' Value

A measure of the thermal performance of a building envelope. The higher the value the worse the thermal efficiency.

Velocity

The speed and direction at which an airstream passes a reference point. Usually the direction is implicit, e.g. velocity in a duct or out of a jet. Otherwise the direction should be stated, e.g. 5 knots NNW.

Venturi

A venturi is used as a means of metering fluid flow, and consists of a combination of converging and diverging tapers, connected by a short straight pipe known as the throat. The flow rate is related to the pressure difference between tappings at the throat and in the upstream pipe

WEEE

Waste Electrical and Electronic Equipment directive

Yaw

The horizontal angle an instrument makes to the axis of flow. *Note: For guidance only. E&OE

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Air Flow Solutions

DUPLEXVENT[®]**FLEXI**

Ventilation with Heat Recovery

Improve indoor climate with cleaner, fresher air. Saves money too by recovering lost heat!



For further information see pages 176 - 187





- 1,100 m³/hr to 3,600 m³/hr
- Off the shelf delivery
- Counter flow exchanger with up to 95% heat recovery
- Designed for schools, offices, retail and leisure facilities
- Ceiling or floor mounted
- Internet connection and BMS
- Low energy, EC fans
- Incorporate into BREEAM assessments



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Residential Fans

Ventilation for the home

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QUIETAIR

| 9041259 | QT100B | 100mm Basic fan (no delay) choice of 2 speed | s46-47 |
|---------|----------|---|------------|
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iCON S eco 72683701 iC eco 15S

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iCON Continuous Ventilation Module

iCON Module - Delayed Timer start AC

at 8 l/sec or 13 l/sec

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Commercial Fans

72687132 CV2E

72687133 DTE

Offices, retail, leisure, education

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| LOOVE | NT eco SEL | V | |
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| 71616501 | WFT | 100mm Integral adjustable timer, for light or door switch operation. Two room option | 84-85 |
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| AVENT | A IN-LINE | | |
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Category D

Hand Dryers

Quiet, hygienic and hands free

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| | | | | 90000519 | E1100SAT | Automatic sensor, 1100 Watts with heater, | |

Part No. Ref

72649601 HVS-10

Automatic sensor, 1100 Watts with hea Satin Die Cast Aluminium Cover 104-105

Energy efficient EC motor operation up to

375M3/h SAP Q Eligible connects directly to Airflex Pro round semi rigid ducting

humidity sensor SAP Q Eligible connects directly to Airflex Pro round semi rigid

Description

72649701 HVS-10 R With wireless remote controller & induct

90000343 HVS-10/6 Energy efficient EC motor operation up to

with 6 spigots

90000364 HVS-10 R/6 With wireless remote controller & induct

ducting with 6 spigots

375 m³/hr SAP Q Eligible

humidity sensor SAP Q Eligible

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Category W

Central Extraction

One fan for multiple rooms, MEV and dMEV

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| 72649401 | WHV-8 | Three speed AC motor operation up to 335 m ³ /hr SAP Q Eligible | 108-111 |
| 72649501 | WHV-8 R | With wireless remote controller & induct humidity sensor SAP Q Eligible | 108-111 |
| 90000362 | WHV-8/6 | Three speed AC motor operation up to 335 m ³ /hr SAP Q Eligible connects directly to Airflex Pro round semi rigid ducting with 6 spigots | 108-111 |
| 90000363 | WHV-8 R/6 | With wireless remote controller & induct humidity sensor SAP Q Eligible connects directly to Airflex Pro round semi rigid ducting with 6 spigots | 108-111 |

Heat Recovery Ventilation

From a flat to a multi storey office block

| Part No. | Ref | Description | Page |
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| DUPL | EXVENT | SINGLE ROOM | |
| DUPLE | EXVENT U | NO DV40 | |
| 90000400 | UNO DV40 | 3 speed levels, through the wall installation, built-in electric heater, up to 150 $\ensuremath{m^3/hr}$ | 120-121 |
| DUPL | EXVENT | RESIDENTIAL | |
| DUPL | EXVENT | BASIC LINE | |
| DUPLE | EXVENT D | V72 (TOP ENTRY) | |
| 9041322 | DV72 | 5 speed levels, (3 basic + 2 on-demand) | |

| 9041322 DV72 | į | 5 speed levels, (3 basic + 2 on-demand) | |
|---------------|------|---|---------|
| | I | up to 280 m³/hr | 122-123 |
| 90000209 DV72 | CS I | DV72 for ceiling suspended installation | 122-123 |

Residential Category S

Commercial Category H

| Part No. | Ref | Description | Page |
|----------|----------|---|---------------|
| DUPLE | XVENT B | V400 (TOP ENTRY) | |
| 90000312 | BV400 | 3 speed levels + manual/automatic boost with timer, automatic bypass, up to 475 m ³ /hr | 124-127 |
| DUPLE | EXVENT D | V250/300/400 (SIDE ENTRY) | |
| 90000397 | DV250 | Wall/ceiling/floor installation, low height (280m automatic 100% bypass, up to 280 m ³ /hr | m) 128-131 |
| 90000398 | DV300 | Wall/ceiling/floor installation, low height (280m automatic 100% bypass, up to 330 m ³ /hr | m) 128-131 |
| 90000399 | DV400 | Wall/ceiling/floor installation, low height (280m automatic 100% bypass, up to 425 m ³ /hr | m) 128-131 |
| DUPL | EXVENT | PROFESSIONAL LINE | |

DUPLEXVENT DV90SCK (TOP ENTRY)

| 9041576 | DV90SCKR | Right hand connections with cooker hood incl. | | |
|---------|----------|--|---------|--|
| | | grease filter and fire damper, up to 330 m³/hr | 132-135 | |
| 9041577 | DV90SCKL | Left hand connections with cooker hood incl. | | |
| | | grease filter and fire damper, up to 330 m³/hr | 132-135 | |

| Part No. | Ref | Description | Page |
|----------|----------|--|---------|
| DUPLE | XVENT D | V96/110/145/200SE (TOP ENTRY) | |
| 90000393 | DV96SER | Right hand connections with triple filter, automatic 100% bypass, built-in heater, up to 324 m³/hr | 136-139 |
| 90000394 | DV96SEL | Left hand connections with triple filter, automatic 100% bypass, built-in heater, up to $324\ m^3/hr$ | 136-139 |
| 90000224 | DV110SER | Right hand connections with triple filter, automatic 100% bypass, built-in heaters, up to 414 m ³ /hr | 140-143 |
| 90000225 | DV110SEL | Left hand connections with triple filter, automatic 100% bypass, built-in heaters, up to 414 m ³ /hr | 140-143 |
| 90000395 | DV145SER | Right hand connections with triple filter, automatic 100% bypass, built-in heaters, up to 568 m ³ /hr | 144-147 |
| 90000396 | DV145SEL | Left hand connections with triple filter, automatic 100% bypass, built-in heaters, up to 568 m ³ /hr | 144-147 |
| 90000157 | DV200SER | Right hand connections with triple filter, automatic 100% bypass, built-in heater, up to 828 m ³ /hr | 148-149 |
| 90000158 | DV200SEL | Left hand connections with triple filter, automatic 100% bypass, built-in heater, up to 828 m ³ /hr | 148-149 |
| DUPLE | XVENT D | V50/80 (SIDE ENTRY) | |
| 9000003 | | Right hand connections with triple filter, automatic 100% bypass, built-in heater, up to 230 m ³ /hr | 150-153 |
| 0041550 | | Loft hand connections with triple filter | |

| | | up to 230 m ³ /hr | 150-153 |
|--------|-------|--|---------|
| 41558 | DV50L | Left hand connections with triple filter, automatic 100% bypass, built-in heater, up to 230 m ³ /hr | 150-153 |
| 000067 | DV80R | Right hand connections with triple filter, automatic 100% bypass, built-in heaters, up to 356 m ³ /hr | 154-157 |
| 000066 | DV80L | Left hand connections with triple filter, automatic 100% bypass, built-in heaters, up to 356 m ³ /hr | 154-157 |

| 90000393 DV96SER | Right hand connections with triple filter, automatic 100% bypass, built-in heater, up to 324 m ³ /hr | 136-139 | CONTROL | LERS - SWITCHES - SENSORS | |
|-------------------|--|---------|------------------------|---|-----|
| 90000394 DV96SEL | Left hand connections with triple filter, automatic 100% bypass, built-in heater, | | MANUAL CO | ONTROL SWITCH | |
| | up to 324 m ³ /hr | 136-139 | 9000082 | 3 speed, 100% adjustable (DV72) | 170 |
| 90000224 DV110SEF | Right hand connections with triple filter, automatic 100% bypass, built-in heaters, up to 414 m ³ /hr | 140-143 | BOOST SW | тсн | |
| 90000225 DV110SEL | Left hand connections with triple filter, automatic 100% bypass, built-in heaters, | 140-143 | 90000542 | Manual boost (1-way) | 170 |
| 90000395 DV145SEE | up to 414 m ³ /hr R Right hand connections with triple filter, | 140-143 | | L HUMIDISTAT | |
| | automatic 100% bypass, built-in heaters, up to 568 m ³ /hr | 144-147 | 9041570 | 30-90% rh (volt-free output) | 170 |
| 90000396 DV145SEL | Left hand connections with triple filter, | | MANUAL CO | ONTROL SWITCH | |
| | automatic 100% bypass, built-in heaters, up to 568 m³/hr | 144-147 | 90000334 | 3 speed (BV400) | 170 |
| 90000157 DV200SEF | R Right hand connections with triple filter, automatic 100% bypass, built-in heater, | | DIGITAL CO | NTROLLER | |
| 90000158 DV200SEL | up to 828 m ³ /hr Left hand connections with triple filter, | 148-149 | 90000336 | 3 speed LCD display with data logger and weekly programming (BV400) | 170 |
| | automatic 100% bypass, built-in heater, up to 828 m ³ /hr | 148-149 | PIR MOTION | SENSOR | |
| | | | 51969702 | With 3-30 min timer (230v output) | 170 |
| DUPLEXVENT | DV50/80 (SIDE ENTRY) | | | · · · · | |
| 90000003 DV50R | Right hand connections with triple filter, automatic 100% bypass, built-in heater, | | MANUAL CO | ONTROL SWITCH | |
| | up to 230 m ³ /hr | 150-153 | 90000408 | 100% adjustable (DV250/300/400) | 170 |
| 9041558 DV50L | Left hand connections with triple filter, automatic 100% bypass, built-in heater, | | DIGITAL CO | NTROLLER | |
| | up to 230 m ³ /hr | 150-153 | 90000409 | Touch screen panel (DV250/300/400) | 170 |
| 90000067 DV80R | Right hand connections with triple filter, automatic 100% bypass, built-in heaters, up to 356 m ³ /hr | 154-157 | MANUAL CO | ONTROL SWITCH | |
| 90000066 DV80L | Left hand connections with triple filter, | | 9041219 | 4 speed, 100% adjustable (DV50/80/90SCK) | 170 |
| | automatic 100% bypass, built-in heaters, up to 356 m³/hr | 154-157 | DIGITAL CO | NTROLLER | |
| | | | 90000227 | 4 speed, 100% adjustable (DV50/80/90SCK) | 170 |
| DUPLEXVENT | INTERACTIVE LINE | | DIGITAL CO | NTROLLER | |
| DUPLEXVENT | 0V190/390/520SE (TOP ENTRY) | | 9041082 | 8 speed, 100% adjustable (DV96/110/145/200SE) | 170 |
| 90000291 DV190SE | Wall/floor installation, 10 speed digital control | | | IDITY SENSOR | |
| 90000292 DV390SE | internet and BMS connection, up to 190 m ³ /hr Wall/floor installation, 10 speed digital control | | | | 171 |
| 90000292 DV3903L | internet and BMS connection, up to 390 m ³ /hr | | 90000320 | Room rh (0-10v output) | 171 |
| 90000293 DV520SE | Wall/floor installation, 10 speed digital control internet and BMS connection, up to 520 m ³ /hr | | DUCT HUMI | DITY SENSOR | |
| | · · | | 90000313 | Duct rh (0-10v output) | 171 |
| | OV180/370/510SE (SIDE ENTRY) | | ROOM CO ₂ | SENSOD | |
| 90000294 DV180SE | Ceiling installation, 10 speed digital control wit internet and BMS connection, up to 180 m ³ /hr | | 90000166 | | 171 |
| 90000295 DV370SE | Ceiling installation, 10 speed digital control wit internet and BMS connection, up to 370 m ³ /hr | | | Room CO ₂ (0-10v output) | 171 |
| 90000296 DV510SE | Ceiling installation, 10 speed digital control with | | DUCT CO ₂ S | | |
| | internet and BMS connection, up to 510 m³/hr | 162-165 | 90000165 | Duct CO ₂ (0-10v output) | 171 |
| | | | ROOM AIR (| QUALITY SENSOR | |
| | | | 90000321 | Room air quality (0-10v output) | 171 |
| | | | | | |

| 90000393 | DV96SER | Right hand connections with triple filter, automatic 100% bypass, built-in heater, up to 324 m ³ /hr | 136-139 | CONTROL | LERS - SWITCHES - SENSORS | |
|----------|----------|--|-----------------|------------------------|---|-----|
| 90000394 | DV96SEL | Left hand connections with triple filter, automatic 100% bypass, built-in heater, | | MANUAL CO | ONTROL SWITCH | |
| | | up to 324 m ³ /hr | 136-139 | 9000082 | 3 speed, 100% adjustable (DV72) | 170 |
| 90000224 | DV110SER | Right hand connections with triple filter, automatic 100% bypass, built-in heaters, up to 414 m ³ /hr | 140-143 | BOOST SWI | тсн | |
| 90000225 | DV110SEL | Left hand connections with triple filter, automatic 100% bypass, built-in heaters, up to 414 m ³ /hr | 140-143 | 90000542 | Manual boost (1-way) | 170 |
| 90000395 | DV145SER | Right hand connections with triple filter, automatic 100% bypass, built-in heaters, | | 9041570 | 30-90% rh (volt-free output) | 170 |
| | | up to 568 m³/hr | 144-147 | MANUAL CO | ONTROL SWITCH | |
| 90000396 | DV145SEL | Left hand connections with triple filter, automatic 100% bypass, built-in heaters, up to 568 m ³ /hr | 144-147 | 90000334 | 3 speed (BV400) | 170 |
| 90000157 | DV200SER | Right hand connections with triple filter, | | DIGITAL CO | NTROLLER | |
| 90000158 | DV200SEL | automatic 100% bypass, built-in heater, up to 828 m ³ /hr Left hand connections with triple filter, | 148-149 | 90000336 | 3 speed LCD display with data logger and weekly programming (BV400) | 170 |
| | | automatic 100% bypass, built-in heater, up to 828 m ³ /hr | 148-149 | PIR MOTION | ISENSOR | |
| DUPLE | XVENT D | V50/80 (SIDE ENTRY) | | 51969702 | With 3-30 min timer (230v output) | 170 |
| 9000003 | DV50R | Right hand connections with triple filter, | | MANUAL CO | ONTROL SWITCH | |
| | | automatic 100% bypass, built-in heater, up to 230 m³/hr | 150-153 | 90000408 | 100% adjustable (DV250/300/400) | 170 |
| 9041558 | DV50L | Left hand connections with triple filter, | | DIGITAL CO | NTROLLER | |
| | | automatic 100% bypass, built-in heater, up to 230 m ³ /hr | 150-153 | 90000409 | Touch screen panel (DV250/300/400) | 170 |
| 9000067 | DV80R | Right hand connections with triple filter, automatic 100% bypass, built-in heaters, | | | DNTROL SWITCH | 170 |
| 9000066 | DV80L | up to 356 m ³ /hr Left hand connections with triple filter, | 154-157 | 9041219 | 4 speed, 100% adjustable (DV50/80/90SCK) | 170 |
| | | automatic 100% bypass, built-in heaters, up to 356 m ³ /hr | 154-157 | DIGITAL CO | NTROLLER | |
| | | | | 90000227 | 4 speed, 100% adjustable (DV50/80/90SCK) | 170 |
| DUPL | EXVENT | INTERACTIVE LINE | | DIGITAL CO | | |
| DUPLE | XVENT D | V190/390/520SE (TOP ENTRY) | | 9041082 | 8 speed, 100% adjustable (DV96/110/145/200SE) | 170 |
| | | Wall/floor installation, 10 speed digital control v | | | IDITY SENSOR | |
| 90000292 | DV390SE | internet and BMS connection, up to 190 m ³ /hr Wall/floor installation, 10 speed digital control v | | 90000320 | Room rh (0-10v output) | 171 |
| 90000293 | DV520SE | internet and BMS connection, up to 390 m ³ /hr Wall/floor installation, 10 speed digital control v | 158-161 vith | DUCT HUMI | DITY SENSOR | |
| | | internet and BMS connection, up to 520 m3/hr | 158-161 | 90000313 | Duct rh (0-10v output) | 171 |
| DUPLE | XVENT D | V180/370/510SE (SIDE ENTRY) | | | | |
| 90000294 | DV180SE | Ceiling installation, 10 speed digital control with internet and BMS connection, up to 180 m ³ /hr | h 162-165 | ROOM CO ₂ | | |
| 90000295 | DV370SE | Ceiling installation, 10 speed digital control with internet and BMS connection, up to 370 m ³ /hr | | 90000166 | Room CO ₂ (0-10v output) | 171 |
| 90000296 | DV510SE | Ceiling installation, 10 speed digital control with | | DUCT CO ₂ S | ENSOR | |
| | | internet and BMS connection, up to 510 m ³ /hr | 162-165 | 90000165 | Duct CO ₂ (0-10v output) | 171 |
| | | | | ROOM AIR (| QUALITY SENSOR | |
| | | | | 90000321 | Room air quality (0-10v output) | 171 |



Description

DUPLEXVENT RESIDENTIAL ACCESSORIES

| Part No. | Description | Page |
|--------------------------|---|------|
| BUILT-IN HUMI | DITY / AIR QUALITY SENSOR | |
| 90000325 | Built-in humidity sensor (BV400) | 171 |
| 90000344 | Built-in air quality sensor (BV400) | 171 |
| PRESSURE SEI | NSOR | |
| 90000326 | For filter monitoring (BV400) | 171 |
| DIGITAL CONTR | ROLLER | |
| 90000297 | 10 speed, incl. internet control (Interactive Line) | 171 |
| ROOM CO ₂ SEN | ISOR | |
| 9041180 | Room CO ₂ (LON RS485) (DV96/110/145/200SE) | 171 |
| ROOM HUMIDIT | TY SENSOR | |
| 9041181 | Room rh (4-20mA output) (DV96/110/145/200SE) | 171 |

FILTERS

| FILTER PACK | | |
|-------------|---------------------------|-----|
| 90000410 | 2 x G4 filter (DV250) | 172 |
| 90000411 | 2 x G4 filter (DV300) | 172 |
| 90000412 | 2 x G4 filter (DV400) | 172 |
| 90000214 | 2 x G4 / 1 x F7 (DV50) | 172 |
| 90000213 | 2 x G4 / 1 x F7 (DV80) | 172 |
| 9041127 | 2 x G4 / 1 x F7 (DV90SCK) | 172 |
| 90000375 | 2 x G4 / 1 x F7 (DV96SE) | 172 |
| 90000378 | 2 x G4 / 1 x F7 (DV110SE) | 172 |
| 90000376 | 2 x G4 / 1 x F7 (DV145SE) | 172 |
| 90000374 | 2 x G4 / 1 x F7 (DV200SE) | 172 |
| 9041511 | 2 x G3 filter (DV72) | 172 |
| 90000322 | 2 x G4 filter (BV400) | 172 |
| 90000323 | 2 x F7 filter (BV400) | 172 |
| 90000426 | 2 x G4 filter (DV190SE) | 172 |
| 90000427 | 2 x G4 filter (DV390SE) | 172 |
| 90000428 | 2 x G4 filter (DV520SE) | 172 |
| 90000423 | 2 x G4 filter (DV180SE) | 172 |
| 90000424 | 2 x G4 filter (DV370SE) | 172 |
| 90000425 | 2 x G4 filter (DV510SE) | 172 |

HEATERS

| ELECTRIC DUC | T HEATER | |
|--------------|--|-----|
| 90000301 | 125mm, 1.2kW incl. temp. sensor and control switch | 173 |

| 90000324 | 160mm, 1.0kW (BV400) | 173 |
|----------|----------------------------|-----|
| 90000413 | 160mm, 0.4kW (DV250) | 173 |
| 90000414 | 160mm, 0.7kW (DV300) | 173 |
| 90000415 | 160mm, 1.7kW (DV400) | 173 |
| 90000162 | 125mm, 0.9kW (DV190SE) | 173 |
| 90000163 | 160mm, 1.5kW (DV180/390SE) | 173 |
| 90000156 | 200mm, 2.1kW (DV370/520SE) | 173 |
| 90000173 | 250mm, 3.0kW (DV510SE) | 173 |

| WATER DUCT HEATER | | | |
|-------------------|----------------------------|--|--|
| 90000429 | 125mm, 0.7kW (DV190SE) | | |
| 90000430 | 160mm, 1.2kW (DV180/390SE) | | |
| 90000431 | 200mm, 1.7kW (DV370/520SE) | | |
| 90000432 | 250mm, 2.0kW (DV510SE) | | |

| Part No. | Description | Page |
|-----------|--------------------------------------|------|
| OTHER CO | MPONENTS | |
| LON-CONVE | RTER | |
| 9041120 | For BMS connection (LON) | 173 |
| KNX-CONVE | RTER | |
| 90000226 | For BMS connection (KNX) | 173 |
| HORIZONTA | L CONDENSATE KIT | |
| 90000122 | For horizontal installation (DV72CS) | 173 |
| METAL CAS | ING | |
| 90000345 | Galvanised (DV250) | 173 |
| 90000347 | Galvanised (DV300/400) | 173 |

DUPLEXVENT COMMERCIAL

DUPLEXVENT FLEXI LINE

| DUPLE | XVENT D | V1100/1600/2600/3600 | |
|----------|---------|---|---------|
| 90000183 | DV1100 | 95% thermal efficiency, floor/ceiling installation, internet and BMS connection up to 1100 $\rm m^3/hr$ | 180-181 |
| 9000068 | DV1600 | 95% thermal efficiency, floor/ceiling installation, internet and BMS connection up to 1800 m^3/hr | 182-183 |
| 9000069 | DV2600 | 95% thermal efficiency, floor/ceiling installation, internet and BMS connection up to 3000 $\mbox{m}^3\mbox{/hr}$ | 184-185 |
| 9000070 | DV3600 | 95% thermal efficiency, floor/ceiling installation, internet and BMS connection up to 3800 \mbox{m}^3/\mbox{hr} | 186-187 |

DUPLEXVENT MULTI LINE

DUPLEXVENT DV500/1000/1500/2500/3500/5000/6500/8000

| 9041571 | DV500 | 95% thermal efficiency, 100% customisation, internet and BMS connection up to 660 m ³ /hr | 192-195 |
|---------|--------|---|---------|
| 9041572 | DV1000 | 95% thermal efficiency, 100% customisation, internet and BMS connection up to 1200 m ³ /hr | 192-195 |
| 9041573 | DV1500 | 95% thermal efficiency, 100% customisation, internet and BMS connection up to 2200 m ³ /hr | 192-195 |
| 9041521 | DV2500 | 95% thermal efficiency, 100% customisation, internet and BMS connection up to 3400 m ³ /hr | 192-195 |
| 9041522 | DV3500 | 95% thermal efficiency, 100% customisation, internet and BMS connection up to 4600 m ³ /hr | 192-195 |
| 9041523 | DV5000 | 95% thermal efficiency, 100% customisation, internet and BMS connection up to 5750 m ³ /hr | 192-195 |
| 9041524 | DV6500 | 95% thermal efficiency, 100% customisation, internet and BMS connection up to 7100 m ³ /hr | 192-195 |
| 9041525 | DV8000 | 95% thermal efficiency, 100% customisation, internet and BMS connection up to 9600 m ³ /hr | 192-195 |
| DUPL | EXVENT | MULTI-N LINE | |

DUPLEXVENT DV1500/2500/3500/5000/6500/8000N

| 9041533 | DV1500N | 95% thermal efficiency, 100% customisation, internet / BMS connection, insulated base frame with maintenance doors, up to 2500 m^3/hr | 196-197 |
|---------|---------|---|---------|
| 9041534 | DV2500N | 95% thermal efficiency, 100% customisation, internet / BMS connection, insulated base frame with maintenance doors, up to 3650 m^3/hr | 196-197 |
| 9041535 | DV3500N | 95% thermal efficiency, 100% customisation, internet / BMS connection, insulated base frame with maintenance doors, up to 4700 m^3/hr | 196-197 |

| Part No. | Description | Page | Part No. | Description | Pag |
|---------------|--|--------------|----------------------|---|----------|
| 9041536 DV500 | | <u> </u> | WATER HE | ATING COIL + DUCT TEMP. SENSOR (C/S) | |
| | internet / BMS connection, insulated base frame with maintenance doors, up to 5500 m ³ /hr | e 196-197 | 90000201 | 5.4kW at 60/40°C (DV1100) | 20 |
| 041520 DV650 | | | 90000203 | 7.8kW at 60/40°C (DV1600) | 20 |
| | internet / BMS connection, insulated base frame | | 90000205 | 12.0kW at 60/40°C (DV2600) | 20 |
| | with maintenance doors, up to 7200 m ³ /hr | 196-197 | 90000207 | 16.0kW at 60/40°C (DV3600) | 20 |
| 9041532 DV800 | 0N 95% thermal efficiency, 100% customisation, internet / BMS connection, insulated base fram- with maintenance doors, up to 8800 m ³ /hr | e 196-197 | | C KIT (WATER HEATER) INCLUDING 4-WA H MIXING PUMP AND ACTUATOR | Y |
| | OTO coming soon | | 90000105 | Hydraulic kit for water heater (all units) | 20 |
| DOI LEX IIC | A new generation in Mechanical Ventilation | | | OLING COIL + DUCT TEMP. SENSOR + | |
| | with Heat Recovery | 198-199 | | UIT BOARD + FREE CHAMBER (F/S) | |
| | | | 90000192 | 3.4kW at 6/12°C (DV1100) | 20 |
| | NT COMMERCIAL ACCESSORI | EC | 90000194 | 4.8kW at 6/12°C (DV1600) | 20 |
| DOPLEAVE | INT COMMERCIAE ACCESSORI | LJ | 90000196 | 7.5kW at 6/12°C (DV2600) | 20 |
| | 10050000150 | | 90000198 | 11.0kW at 6/12°C (DV3600) | 20 |
| | ACCESSORIES | | | OLING COIL + DUCT TEMP. SENSOR + UIT BOARD + FREE CHAMBER (C/S) | |
| EXTRACT AI | R FILTER | | | | 00 |
| 90000174 | M5 filter (DV1100) | 204 | 90000193 90000195 | 3.4kW at 6/12°C (DV1100) 4.8kW at 6/12°C (DV1600) | 20 20 |
| 9000083 | M5 filter (DV1600) | 204 | 90000195 | $7.5 \text{kW} \text{ at } 6/12^{\circ}\text{C} \text{ (DV 1600)}$ | 20 |
| 9000085 | M5 filter (DV2600) | 204 | 90000197 | 11.0kW at 6/12°C (DV3600) | 20 |
| 90000139 | M5 filter (DV3600) | 204 | | | 2. |
| SUPPLY AIR | FILTER | | | C KIT (WATER COOLER) INCLUDING 3-WA ACTUATOR | ١Y |
| 90000175 | F7 filter (DV1100) | 204 | 90000161 | Hydraulic kit for water cooler (all units) | 20 |
| 9000084 | F7 filter (DV1600) | 204 | | · · , · · · · · · · · · · · · · · · | |
| 9000086 | F7 filter (DV2600) | 204 | | ATING/COOLING COILS + DUCT TEMP. | |
| 90000140 | F7 filter (DV3600) | 204 | SENSOR + | RD-IO CIRCUIT BOARD (F/S) | |
| FLEXIBLE CO | ONNECTOR | | 90000184 | 5.4kW at 60/40°C, 3.4kW at 6/12°C (DV1100) | 20 |
| 90000169 | 250mm connection (DV1100) | 204 | 90000186 | 7.8kW at 60/40°C, 4.8kW at 6/12°C (DV1600) | 20 |
| 90000095 | 315mm connection (DV1600) | 204 | 90000188 | 12.0kW at 60/40°C, 7.5kW at 6/12°C (DV2600) 16.0kW at 60/40°C, 11.0kW at 6/12°C (DV3600) | 20 20 |
| 90000096 | 500 x 250mm connection (DV2600) | 204 | 90000190 | 16.0kw at 60/40°C, 11.0kw at 6/12°C (DV3600) | 20 |
| 90000134 | 600 x 300mm connection (DV3600) | 204 | | ATING/COOLING COILS + DUCT TEMP. RD-IO CIRCUIT BOARD (C/S) | |
| SHUT-OFF D | AMPER WITH SPRING RETURN | | 90000185 | 5.4kW at 60/40°C, 3.4kW at 6/12°C (DV1100) | 20 |
| 90000172 | 250mm connection (DV1100) | 204 | 90000185 | 7.8kW at 60/40°C, 4.8kW at 6/12°C (DV1600) | 20 |
| 90000098 | 315mm connection (DV1600) | 204 | 90000189 | 12.0kW at 60/40°C, 7.5kW at 6/12°C (DV2600) | 20 |
| 90000100 | 500 x 250mm connection (DV2600) | 204 | 90000191 | 16.0kW at 60/40°C, 11.0kW at 6/12°C (DV3600) | 20 |
| 90000137 | 600 x 300mm connection (DV3600) | 204 | | | |
| | AMPER WITHOUT SPRING RETURN | | RD-IO CIRC | UIT BOARD | |
| | | | 9000094 | Additional PCB (all units) | 20 |
| 90000181 | 250mm connection (DV1100) | 204 | | | |
| 90000097 | 315mm connection (DV1600) | 204 | DX COIL (F/ | | |
| 90000099 | 500 x 250mm connection (DV2600) | 204 | 90000178 | DX (direct expansion) coil (DV1100) | 20 |
| 90000182 | 600 x 300mm connection (DV3600) | 204 | 90000147 | DX (direct expansion) coil (DV1600) | 20 |
| ELECTRIC D | UCT HEATER | | 90000149 | DX (direct expansion) coil (DV2600) | 20 |
| 90000173 | 3.0kW, 250mm connection (DV1100) | 204 | 90000151 | DX (direct expansion) coil (DV3600) | 20 |
| 90000173 | 6.0kW, 315mm connection (DV1600) | 204 204 | DX COIL (C | /S) | |
| 90000091 | 10.5kW, 500 x 250mm connection (DV2600) | 204 | | | ~ |
| 90000092 | 13.5kW, 600 x 300mm connection (DV3600) | 204 | 90000179 | DX (direct expansion) coil (DV1100) | 20 |
| | | 204 | 90000148 | DX (direct expansion) coil (DV1600) | 20 |
| WATER HEAT | TING COIL + DUCT TEMP. SENSOR (F/S | 5) | 90000150 | DX (direct expansion) coil (DV2600) | 20 |
| | | | 90000152 | DX (direct expansion) coil (DV3600) | 20 |
| 90000200 | 5.4kW at 60/40°C (DV1100) | 204 | | | |

| EXTRACT A | IR FILTER | |
|------------|---|---|
| 90000174 | M5 filter (DV1100) | 2 |
| 9000083 | M5 filter (DV1600) | 2 |
| 9000085 | M5 filter (DV2600) | 2 |
| 90000139 | M5 filter (DV3600) | 2 |
| SUPPLY AIF | RFILTER | |
| 90000175 | F7 filter (DV1100) | 2 |
| 9000084 | F7 filter (DV1600) | 2 |
| 9000086 | F7 filter (DV2600) | 2 |
| 90000140 | F7 filter (DV3600) | 2 |
| FLEXIBLE C | ONNECTOR | |
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| 9000097 | 315mm connection (DV1600) | 2 |
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Short Connector 100mm ø

T Section with Stucco Profile 100/100/100mm (box of 4)

Inner Angle with Stucco Profile 100/100mm (box of 2)

Combi Distribution Box Sealing Cap 100mm ø

Outer Angle with Stucco Profile (box of 2)

Wall Connecting Pipe 100mm ø PVC

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Coanda Effect Valve for Sup 100mm ø

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| 9021289 | 100mm x 10m length PVC external aluminium internal | 222 |
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| 9021312 | 150mm x 3m length re-enforced aluminium flexible foil | 223 |
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| 9041201 | 125mm x 125mm x 125mm equal round rigid T piece | 225 | 52641106 | 180 x 180 x 150mm ø Fixed Gr |
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| 9041556 | 125mm Y piece | 225 | 71984001 | 180 x 180 x 150mm ø Gravity F |
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| 9041236 | Airese 15m³/hr Constant Air flow, Pull Cord Boost to 30m³/hr | 233 |
| 9041237 | Airese 20m³/hr Constant Air flow, Pull Cord Boost to 75m³/hr | 233 |
| 9041238 | Airese 5m ³ /hr Constant Air flow, Humidity Boost to 45m ³ /hr | 233 |
| 9041239 | Airese 10m ³ /hr Constant Air flow, Humidity Boost to 45m ³ /hr | 233 |
| 9041240 | Airese 12m³/hr/45m³/hr/105m³/hr Air flow Boost Humidity Electric with Timer | 233 |
| 9041241 | Airese 5m ³ /hr/40m ³ /hr/100m ³ /hr Air flow Boost Humidity Electric with 125mm Connector | 233 |
| 9041242 | Airese 6m³/hr/40m³/hr/ 90m³/hr Air flow Boost Humidity Pull Cord | 233 |
| 9041243 | Airese 5m³/hr Air flow Boost Electric to 30m³/hr | 233 |
| 9041244 | Airese 5m³/hr Air flow Boost PIR Batt to 30m³/hr | 233 |
| 9041245 | Airese 125mm reducer to 100mm | 233 |
| 9041246 | Airese 125mm Straight Connector fits all Airese Air Valves | 233 |
| 9041247 | Airese 150mm Straight Connector fits all Airese Air Valves | 233 |
| 9041248 | Airese 125mm Straight Ceiling Connector to give extra grip | 233 |



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| METAL | WORM DRIVE CLAMPS 8MM WIDE | |
| 51849402 | 100mm/4" adjustable 50mm - 110mm | 234 |
| 51849403 | 125mm/5" adjustable 60mm - 165mm | 234 |
| 51849404 | 150mm/6" adjustable 60mm - 325mm | 234 |

ROOF COWLS, SLATES, PANTILES, TRAPS, VALVES & OUTLETS

| 90000349 | Universal Roof Terminal & Adaptor - Anthracite | 234 |
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| 90000350 | Universal Roof Terminal & Adaptor - Sepia | 234 |
| 90000351 | Universal Roof Terminal & Adaptor - Terracotta | 234 |
| 9004554 | Roof Cowl Grey A.B.S. | 234 |
| 9004597 | 450mm square aluminium roof slate (pitched roof) | 234 |
| 9004598 | 600mm square aluminium roof slate (pitched roof) | 234 |
| 51978301 | 100mm condensation trap | 234 |
| 52364801 | 150mm condensation trap | 234 |
| 51990601 | 100mm backdraught flap | 234 |
| 52365001 | 150mm backdraught flap | 234 |
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| VENTIN | G KITS | | |
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| 72643201 | Cavity wa Terracotta | ll kit 100mm ø rigid duct, round grille and screws - a | 235 |
| 72643202 | Cavity wa White | Il kit 100mm ø rigid duct, round grille and screws - | 235 |
| 72643203 | Cavity wa Terracotta | Il kit 150mm ø rigid duct, round grille and screws - a | 235 |
| 72643204 | Cavity wa White | Il kit 150mm ø rigid duct, round grille and screws - | 235 |
| 9021451 | | Il kit 100mm ø rigid duct with fitted cowl & rubber sea n inside brown | al 235 |
| 72643601 | Flexible d Terracotta | uct kit 100mm ø 3m duct, square grille & screws - a | 235 |
| 72643602 | Flexible d White | uct kit 100mm ø 3m duct, square grille & screws - | 235 |
| 72643603 | Flexible d Terracotta | uct kit 150mm ø 3m duct, square grille & screws - a | 235 |
| 72643604 | Flexible d White | uct kit 150mm ø 3m duct, square grille & screws - | 235 |
| 90000437 | Flexible d Terracotta | uct kit 125mm ø 3m duct, square grille & screws - a | 235 |
| 90000438 | Flexible d White | uct kit 125mm ø 3m duct, square grille & screws - | 235 |
| 9041183 | (for Avent | exible duct kit 100mm ø 6m ducting, a/Aventa 100T) c/w exhaust valve, 6m duct, ravity flap & circlips | 235 |
| 9041184 | (for Avent | exible duct kit 125mm ø 6m ducting, a/Aventa 125T) c/w exhaust valve, 6m duct, ravity flap & circlips | 235 |
| 9041185 | (for Avent | exible duct kit 150mm ø 6m ducting, a/Aventa 150T) c/w exhaust valve, 6m duct, ravity flap & circlips | 235 |
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| INTUME | SCENT | FIRE COLLARS | |
| 90000108 | INC82 | Fire collar (Round) with stainless steel casing 75 - 82mm dia. | 236 |
| 90000109 | INC110 | Fire collar (Round) with stainless steel casing 100 - 110mm dia. | 236 |
| 90000110 | INC130 | Fire collar (Round) with stainless steel casing 125 - 130mm dia. | 236 |
| 90000111 | INC160 | Fire collar (Round) with stainless steel casing 150 - 160mm dia. | 236 |
| 90000107 | | Fire collar (Rectangular) with stainless steel casing 205 x 60mm. | 236 |

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| FLAME | STOPPER | SAFETY SLEEVE | |
| | ve to prevent th s or air valves. | e spread of fire in HVAC systems. | |
| 9041311 | FS 80 HC 80r | nm dia | 236 |
| 52662301 | FS125 HC | 125mm dia | 236 |
| 52662401 | FS150 HC | 150mm dia | 236 |
| REMOT | E SWITCH | ES, CONTROLLERS & SENSORS | |
| 9041575 | Air Quality Se | ensor | 236 |
| 90000546 | Supervent SV | 237 | |
| 90000547 | On/Off with lockable isolator | | |
| 90000548 | Supervent SV6 switch with neon | | |
| 90000549 | Three position switch with 2 x neon | | |
| 90000550 | On/Off with ne | eon and lockable pole isolator switch | 237 |
| 90000551 | On/Off - 2 sp | eed with 2 x neon | 237 |
| 90000537 | Isolation swite | ch | 237 |
| 90000538 | Isolation swite | ch with neon | 237 |
| 90000539 | Isolation swite | ch with neon and fuse | 237 |
| 90000540 | On/Off switch | | 237 |
| 90000541 | low and high | speed and off switch | 237 |

Industrial Fans

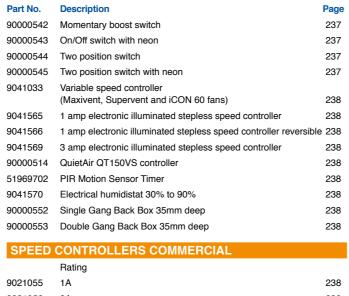
Blowers, hot air fans, flue dilution, OEM fans

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| AC SIN | GLE INLET FA | NS | |
| 71144606 | 21ATXL | Centrifugal fan | 246-247 |
| 71056108 | 26BTML | Centrifugal fan | 246-247 |
| 71923201 | 26BTCL | Centrifugal fan | 246-247 |
| 71773305 | 33BTFL | Centrifugal fan | 246-247 |
| 71056207 | 40BTFL | Centrifugal fan | 246-247 |
| 71399904 | 45CTL | Centrifugal fan | 246-247 |
| 71674501 | 52BTXL | Centrifugal fan | 246-247 |
| 7492006 | 52BTXL | Centrifugal fan (Oven Fan) | 246-247 |
| 71655702 | 52BTXL | Centrifugal fan (Spear Fan) | 246-247 |
| 71674701 | 57BXL | Centrifugal fan | 246-247 |
| AC DOI | JBLE INLET F | ANS | |
| 72518201 | 57FTQR/4 | Centrifugal fan | 248-249 |
| 71172316 | 71E2TIXR/6 | Centrifugal fan | 248-249 |
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| 72371701 | ACF120X62L2 C | entrifugal fan | 250-251 |
| DUPLE | X BLOWERS | | |
| 71988801 | 40B2TX/2DUP | Centrifugal fan | 252-253 |
| EC SIN | GLE INLET FA | NS | |
| 90000365 | SIEC 120 x 62 | EC Single inlet fan | 256-257 |
| 90000366 | SIEC 133 x 46 | EC Single inlet fan | 256-257 |

Instruments

Air flow and velocity measurement

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| 90000017 | ANOMACK | LCA301 Anemometer kit UKAS Certified with 285 x 235mm Aircone | 268 |



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| 90000367 | SIEC 160 x 62 | EC Single inlet fan | 256-257 |
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| 90000368 | DIEC 178 | EC Double inlet fan | 258-259 |
| 90000369 | DIEC 215 | EC Double inlet fan | 258-259 |
| 90000370 | DIEC 222 | EC Double inlet fan | 258-259 |
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| 72546201 | GBDF2 | Zintec steel flue dilution fan | 260-263 |
| 72546301 | GBDF3 | Zintec steel flue dilution fan | 260-263 |
| 72546401 | GBDF4 | Zintec steel flue dilution fan | 260-263 |
| 72546501 | GBDF5 | Zintec steel flue dilution fan | 260-263 |
| 72546601 | GBDF6 | Zintec steel flue dilution fan | 260-263 |
| 72553201 | SSDF2 | Stainless steel flue dilution fa | an 260-263 |
| 72553301 | SSDF3 | Stainless steel flue dilution fa | an 260-263 |
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| 72553601 | SSDF6 | Stainless steel flue dilution fa | an 260-263 |
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The Small Print

Terms and Conditions of Supply for Business-to-Business Contracts 1. Definitions

In these Conditions, the following definitions apply:

Airflow: Airflow Developments Limited (registered in England and Wales with company number 550374).

Business Day: a day (other than a Saturday, Sunday or public holiday) when banks in London are open for business.

Call Out: has the meaning given in condition 10(a).

Conditions: the terms and conditions set out in this document.

Contract: the contract between Airflow and the Customer for the sale and purchase of the Goods and/or Services in accordance with these Conditions

Customer: the person or firm purchasing Goods and/or Services from Airflow.

Force Majeure Event: has the meaning given in condition 17.

Goods: the goods (or any part of them) set out in an Order and/or the applicable Specification

Incoterms: the international rules for the interpretation of trade terms published by the International Chamber of Commerce in 2010.

Order: the Customer's order for Goods and/or Services, as set out in the Customer's purchase order form (or in the case of a Call Out, a fully completed Service / Warranty Call Out Request Form) or the Customer's written acceptance of Airflow's quotation, as the case may be.

Site: the site where the Goods are to be delivered to the Customer and/or the site where the Services are to be provided by Airflow to the Customer

Services: the services to be provided by Airflow to the Customer (whether in connection with a Call Out or otherwise) as detailed in the Order and/or Specification.

Service Level Agreement: the service levels, to be agreed in writing by the parties, in accordance with which the Goods and/or Services are to be supplied. or as appropriate, provided where such Goods and/or Services are bespoke to the Customer's own requirements.

Service/Warranty Call Out Request Form: the form to be completed by the Customer if requesting a Call Out and available from Airflow's Customer Services Department on 01494 560800 or by email at customer services@airflow.com.

Specification: the written description or specification for the Goods and/or Services, including any related plans and drawings which are supplied to Airflow by the Customer, or produced by Airflow and agreed in writing by the Customer.

2. Basis of Contract

- (a) These Conditions apply to the Contract to the exclusion of any other terms that the Customer seeks to impose or incorporate, or which are implied by trade, custom, practice or course of dealing. These Conditions shall be subject to any additional written terms set out and expressly agreed by Airflow in the Contract or the Service Level Agreement to the extent that there is any inconsistency. Incoterms shall apply but where they conflict with these Conditions, these Conditions shall prevail
- (b) The Order constitutes an offer by the Customer to purchase the Goods and/or Services in accordance with these Conditions.
- (c) The Order shall only be deemed to be accepted if and when Airflow issues a written acceptance of the Order or when Airflow delivers the Goods and/or provides the Services (whichever is the sooner), at which point the Contract shall come into existence
- (d) The Contract constitutes the entire agreement between the parties. The Customer acknowledges that it has not relied on any statement, promise or representation made or given by or on behalf of Airflow which is not set out in the Contract. Any samples, drawings, descriptive matter, or advertising issued by Airflow and any descriptions or illustrations contained in Airflow's catalogues or brochures are issued or published for the sole purpose of giving an approximate idea of the products described in them. They shall not form part of the Contract or any other contract between Airflow and the Customer for the sale of the Goods and/or the provision of Services.
- (e) A quotation for the supply of Goods and/or the provision of Services given by Airflow shall not constitute an offer. A quotation shall only be valid for the period specified on it and if no such period is specified, it can be withdrawn at any time.

3. Provision of Services

(a) Airflow shall provide the Services to the Customer in accordance with the Specification and (where applicable) the Service Level Agreement in all material respects.

- (b) Airflow shall use all reasonable endeavours to meet any performance dates specified in the Service Level Agreement, but any such dates shall be estimates only and time shall not be of the essence for performance of the Services.
- (c) Airflow shall have the right to make any changes to the Services which are necessary to comply with any applicable law or safety requirement, or which do not materially affect the nature or quality of the Services, and Airflow shall notify the Customer in any such event.
- (d) Airflow warrants to the Customer that the Services will be provided using reasonable care and skill.

4. Customer Obligations

The Customer shall

- (a) ensure that the Order contains the appropriate product codes and prices, as agreed with Airflow, and that the terms of the Order and any information provided in the Specification are complete and accurate. For the avoidance of doubt, where there have been pre-sale discussions between Airflow and the Customer and/or the Customer's end user involving a number of differing options with regard to features or price (quote versions), it shall be the responsibility of the Customer to state in the Order which quote version is required by the end user. Airflow shall accept no responsibility if the quote version is not so confirmed in the Order.
- (b) co-operate with Airflow in all matters relating to the supply of the Goods and/or the provision of the Services
- (c) comply with Airflow's oral or written instructions as to the storage, commissioning. installation, use and maintenance of the Goods, including the information in the installation and operating instructions and user manual which may be supplied by Airflow to the Customer, or (if there are no such instructions) good trade practice:
- (d)provide Airflow, its employees, agents, consultants and subcontractors, with access to the Site and other facilities as reasonably required by Airflow;
- (e) provide Airflow with such information and materials as Airflow may reasonably require in order to supply the Goods and/or provide the Services, and ensure that such information is accurate in all material respects;
- (f) prepare the Site for the delivery of the Goods and/or receipt of the Services, ensure adequate labour and suitable equipment is available, and ensure there is a suitable working area for the performance of the Services by Airflow at the Site;
- (g) obtain and maintain all necessary licences, permissions and consents which may be required before the date on which the Goods and/or Services are to be supplied or, as applicable, provided. In particular, it is acknowledged that quotations made by Airflow are derived from diagrams and specifications and not from any site survey or local knowledge of building control preferences. In every case it is the Customer's responsibility to check with the appropriate building control body, private inspector and/or local authority before submitting an Order to consider what is necessary in relation to the Goods and/or the Services for the purposes of relevant building regulations;
- (h) keep and maintain all materials, equipment, documents and other property of Airflow (Airflow Materials) at the Customer's premises in safe custody at its own risk, maintain Airflow Materials in good condition until returned to Airflow, and not dispose of or use Airflow Materials other than in accordance with Airflow's written instructions or authorisation: and
- (i) ensure that any resale of Goods by the Customer to a third party (whether or not an end user) shall not create or imply any contractual right or remedy on the part of that third party against Airflow, even if Airflow participates with the Customer and the third party in any pre-sale discussions. The Customer shall indemnify Airflow in respect of any actions, claims, costs, damages, expenses, losses or other liabilities which Airflow may suffer or incur arising from any contractual claim brought against it by any such third party.

5. Customer Default

If performance by Airflow of any of its obligations under the Contract is prevented or delayed by any act or omission by the Customer or failure by the Customer to perform any obligation set out in condition 4 or other relevant obligation (Customer Default)

- (a) Airflow shall without limiting its other rights or remedies have the right to suspend performance of the Contract until the Customer remedies the Customer Default, and to rely on the Customer Default to relieve it from the performance of any of its obligations to the extent the Customer Default prevents or delays Airflow's performance of any of those obligations:
- (b) Airflow shall not be liable for any costs or losses sustained or incurred by the Customer arising directly or indirectly from the Customer's failure or delay to perform any of its obligations as set out in condition 4: and

(c) The Customer shall reimburse Airflow on written demand for any costs or losses (including any legal costs and expenses in defending claims brought against Airflow by the Customer or by any third party) sustained or incurred by Airflow arising directly or indirectly from the Customer Default.

6. Delivery

(a) Airflow shall ensure that: (i) each delivery of Goods is accompanied by a (a) Delivery of the Goods shall be deemed to have been completed at 9.00 am on delivery note which shows the date of the Order, all relevant Customer and the 10th Business Day following the day on which Airflow notified the Customer Airflow reference numbers, the type and quantity of the Goods (including the that the Goods were ready for delivery; and code number of the Goods, where applicable), special storage instructions (if (b) Airflow shall store the Goods until delivery takes place, and charge the Customer any) and, if the Order is being delivered by instalments, the outstanding balance for all related costs and expenses (including insurance). of Goods remaining to be delivered; and (ii) if Airflow requires the Customer to return any packaging materials to Airflow, that fact is clearly stated on the 9. Quality of Goods delivery note. The Customer shall make any such packaging materials available (a) Without prejudice to condition 9(g), Airflow warrants that on delivery, and for for collection at such times as Airflow shall reasonably request. Returns a period of 12 calendar months from the date of delivery or such other period of packaging materials shall be at Airflow's expense. Returnable cases or (if any) agreed in writing between the parties (the warranty period) the Goods stillages, separately invoiced, shall be credited in full if returned to Airflow at the shall conform in all material respects with their description and any applicable Customer's expense within 28 calendar days of delivery of the Goods. Specification and be free from material defects in design, material and (b) Airflow shall: workmanship

- (i) make the Goods available for collection by the Customer at the Airflow's premises (b) Subject to condition 9(c), if the Customer gives notice in writing to Airflow during as set out in the Order. The Customer shall collect the Goods within the period the warranty period of discovery that some or all of the Goods do not comply specified in the Order: or with the warranty set out in condition 9(a):
- (ii) deliver the Goods to the location set out in the Order or to such other location (i) the Customer may request a Call Out in accordance with condition 10: or as the parties may agree in writing (Delivery Location) at any time after Airflow (ii) the Customer may give Airflow a reasonable opportunity of examining those notifies the Customer that the Goods are ready for delivery. Airflow reserves Goods and the Customer (if asked to do so by Airflow) shall return those Goods the right to levy an additional delivery charge if the Delivery Location is not at to Airflow's place of business by courier or recorded delivery at the Customer's the Customer's primary place of business or an express delivery is requested. cost. Proof of delivery should be retained by the Customer and should be made (c) Delivery of the Goods shall be complete when the Goods arrive at the Delivery available upon request by Airflow.
- Location or, if the Customer is to collect the Goods, on completion of the loading at Airflow's premises.
- (c) Subject to Airflow accepting that there is a valid reason for the Customer to reject or return any of such Goods (and for the avoidance of doubt that the Goods (d) It is the Customer's responsibility to ensure that a person duly authorised to have not failed as a result of incorrect installation). Airflow shall reimburse any sign on its behalf to acknowledge receipt of the Goods is present at the Delivery payment made by the Customer in respect of a Call Out and, at Airflow's option, Location at the time of delivery. Signature upon receipt of the Goods will be repair or replace defective Goods, or refund the price of defective Goods in full. proof of delivery. The Customer shall indemnify and keep indemnified Airflow When a debit note is issued by the Customer or a sales return note (SRN) is against all liabilities costs expenses damages and losses suffered or incurred issued by Airflow prior to the Goods being returned to Airflow, the Goods must by Airflow arising out of or in connection with any breach by the Customer of its be returned within 10 working days via the Airflow returns process and failure obligations under this condition 6(d). to do so will result in the debit note or SRN (as applicable) being disclaimed or cancelled respectively.
- (e) Any dates quoted for delivery are approximate only, and the time of delivery is not of the essence. Airflow shall not be liable for any delay in delivery of the Goods to the extent that such failure is caused by a Force Maieure Event or the
- (d) Airflow shall not be liable for Goods' failure to comply with the warranty set out in condition 9(a) if: (i) the Customer or any end user makes any further Customer's failure to provide Airflow with adequate delivery instructions or any use of those Goods after giving notice in accordance with conditions 7(c). other instructions that are relevant to the delivery of the Goods. 7(d) or 9(b) (as applicable); or (ii) the defect arises because the Customer or end user failed to follow Airflow's oral or written instructions as to the storage, installation, commissioning, use and maintenance of the Goods or (if there are for separately. Each instalment shall constitute a separate Contract. Any delay in none) good trade practice; or (iii) the defect arises as a result of Airflow following delivery or defect in an instalment shall not of itself entitle the Customer to cancel any drawing, design, description or specification supplied by the Customer or any other instalment. end user; or (iv) the Customer or end user alters or repairs those Goods without the written consent of Airflow; or (v) the defect arises as a result of fair wear and tear, wilful damage, negligence, or abnormal storage or working conditions; or (vi) the defect arises as a result of incorrect installation and/or failure to comply within 5 Business Days of the date of the relevant invoice that relates to the with good trade practice in relation to the installation of the Goods; or (vii) the Goods. defect arises as a result of those Goods being used within an application or for a purpose for which those Goods have not been designed; or (viii) the Customer expenses incurred by the Customer in obtaining replacement goods of similar or end user fails to give notice in writing to Airflow within the time periods specified in conditions 7(a), 7(c), 7(d) or 9(b)(i) (as applicable); or (ix) the Goods description and quality in the cheapest market available, less the price of the differ from the Specification as a result of changes made to ensure they comply Goods with the applicable statutory or regulatory requirements.

- (f) Airflow may deliver the Goods by instalments, which shall be invoiced and paid 7. Inspection of Goods (a) Any claim for non-delivery of Goods shall be communicated to Airflow in writing (b) If Airflow fails to deliver the Goods, its liability shall be limited to the costs and
- (c) After receipt of a delivery of the Goods, the Customer shall, within 3 Business (e) For the avoidance of doubt the warranty set out in condition 9(a) will be void if Days visually inspect the Goods to ensure that it is satisfied with the Goods there is a failure to store, install, commission, maintain and use Goods in line that the Goods conform with their description and the Specification and that no damage or loss in transit has occurred to the Goods. Any claims for defects of with Airflow's written instructions. this nature shall be communicated to Airflow in writing during this 3 Business (f) Except as provided in this condition 9. Airflow shall have no liability to the Day period. Customer in respect of the Goods' failure to comply with the warranty set out (d) Airflow shall consider any request by the Customer to deliver Goods direct to the in condition 9(a).
- Customer's end user's site but if Airflow agrees (at its discretion) to do so, any (g) Except as set out in these Conditions, all warranties, conditions and other terms notification of non-conformity, damage or shortages in respect of such Goods implied by statute or common law are, to the fullest extent permitted by law. must be made to Airflow within 24 hours of delivery to the end user. Airflow will excluded from the Contract not be responsible to the Customer or the end user in the event of any later (h) These Conditions shall apply to any repaired or replacement Goods supplied by notification, nor shall it be responsible if the Goods are subsequently installed at the end user's site by or on behalf of the end user. Airflow and the warranty period set out in condition 9(a) shall be deemed to be
- (e) Any quantities of Goods that are rejected by the Customer or an end user for a or replacement Goods or such other period (if any) agreed in writing between reason contemplated by condition 7(c) or 7(d) shall be returned to Airflow and, subject to Airflow accepting that there is a valid reason for the rejection of those Goods, Airflow will make good any defect by, at its discretion, repairing, replacing (i) Airflow reserves the right, in the interests of continuous development, to alter or procuring a replacement of the Goods at no expense to the Customer and specifications without prior notice. Airflow will reimburse the Customer the cost of returning the Goods. The 10. Call Outs obligations of Airflow set out in this condition 7(e) shall be the Customer's sole (a) Subject to condition 10(c), the Customer may request an appointment with an remedy for rejected Goods and Airflow shall not have any further liability in respect of the Goods whether such liability arises by contract, in tort (including negligence), by statute, common law or otherwise
- Airflow service engineer to assess and, if Airflow determines appropriate, to repair or replace a Good or other product which has been supplied by Airflow to the Customer or a third party (a Call Out) by contacting Airflow's customer (f) Subject to the Customer's right to reject the Goods under this condition 7, the services department by telephone on 01494 560800 or by email to customer Customer shall be deemed to have accepted the Goods on delivery services@airflow.com. A request by the Customer for a Call Out shall constitute a new Order and these Conditions shall apply accordingly.



8. Failure Caused by Customer to Deliver Goods

If the Customer fails to take delivery of the Goods within 10 Business Days of Airflow notifying the Customer that the Goods are ready for delivery, then, except where such failure or delay is caused by a Force Majeure Event or Airflow's failure to comply with its obligations under the Contract:

a period of 12 calendar months from the date of delivery of any such repaired

- (b) A Call Out shall take place on a Business Day at a time and place agreed between the Customer and Airflow taking into account the availability of the service engineers of Airflow. The maximum duration of each Call Out shall not exceed four hours (including travel time) and Airflow shall endeavour to undertake any necessary repairs or replacements during this time, subject to the Customer agreeing the additional cost (if any) of such repairs or replacements. If Airflow is not able to complete a repair or replacement during a Call Out appointment for any reason, the Customer may request additional Call Out appointments and each Call Out shall be charged in accordance with condition 10(d).
- (c) Unless otherwise agreed, Call Outs are not available in connection with Goods which have been purchased and/or installed outside of the United Kingdom.
- (d) Unless otherwise agreed, the cost to the Customer of each Call Out shall be £250 plus VAT which is payable in advance in full and cleared funds by the Customer prior to the Call Out plus reasonable expenses (including travel. parking and congestion charge costs).
- (e) The Customer may cancel any Order for a Call Out not later than 24 hours prior to the agreed date and time of the Call Out without incurring a cancellation fee.
- (f) If the Customer cancels an Order for a Call Out not later than 24 hours prior to the agreed date and time of the Call Out and the Customer has made any payment to Airflow in advance for the Call Out, Airflow will refund the amount of the payment to the Customer
- (g) If the Customer cancels an Order for a Call Out less than 24 hours prior to the agreed date and time of the Call Out, no refund will be given by Airflow.
- (h) During a Call Out, Airflow shall only assess electrical cables which are directly connected to the Good or product which is the subject of the Call Out and, upon Airflow's request, the Customer shall ensure that any such cables are isolated. Airflow shall not be liable for accidental damage caused by its representatives during a Call Out in connection with trying to access any product which is the subject of the Call Out.
- (i) In the event that the Customer is not satisfied with the service provided by an Airflow service engineer during a Call Out, the Customer should immediately contact Airflow's Customer Services Department on 01494 560800 or by email at customer_services@airflow.com. A new Call Out appointment shall be arranged in accordance with condition 10(a) and the charges set out in condition 10(d) shall apply to each new Call Out. Subject to Airflow accepting that there is a valid reason for the Customer's complaint and that such fault arises from a failure by Airflow to provide the Services using reasonable care and skill and that such fault arose within a 30 day period commencing on the date of the original Cal Out, Airflow shall reimburse any payment made by the Customer in respect of the additional Call Out and, at Airflow's option, repair any defect, or refund the price of the original Call Out in full.

11. Title and Risk

- (a) The risk in the Goods shall pass to the Customer on completion of delivery.
- (b) Title to the Goods shall not pass to the Customer until Airflow has received payment in full (in cash or cleared funds) for: (i) the Goods: and (ii) all other sums which are or which become due to Airflow for sales of Goods and/or Services to the Customer.
- (c) Until title to the Goods has passed to the Customer, the Customer shall: (i) hold the Goods on a fiduciary basis as Airflow's bailee: (ii) store the Goods separately from all other goods held by the Customer so that they remain readily identifiable as Airflow's property; (iii) not remove, deface or obscure any identifying mark or packaging on or relating to the Goods; (iv) maintain the Goods in satisfactory condition and keep them insured against all risks for their full price from the date of delivery; (v) notify Airflow immediately if it becomes subject to any of the events listed in condition 13(b); and (vi) give Airflow such information relating to the Goods as Airflow may require from time to time, but the Customer may resell or use the Goods in the ordinary course of its business.
- (d) If before title to the Goods passes to the Customer the Customer becomes subject to any of the events listed in condition 13(b), or Airflow reasonably believes that any such event is about to happen and notifies the Customer accordingly, then, provided that the Goods have not been resold, or irrevocably incorporated into another product, and without limiting any other right or remedy Airflow may have, Airflow may at any time require the Customer to deliver up the Goods and, if the Customer fails to do so promptly, enter any premises of the Customer or of any third party where the Goods are stored in order to recover them

12. Prices and Payment

- (a) The price of the Goods and/or Services shall be the price set out in the Order, or, if no price is quoted, the price set out in Airflow's published price list in force as at the date of delivery. Airflow's price list contains a large number of Goods and it is always possible that, despite Airflow's best efforts, some of the Goods listed in its price list may be incorrectly priced. Airflow will normally verify prices as part of its dispatch procedure so that, where a correct price of the Goods is less than the stated price, Airflow will charge the lower amount when dispatching the Goods to the Customer. If a correct price of the Goods is higher than the price stated on Airflow's price list. Airflow will normally, at its discretion, either contact the Customer for instructions before dispatching the Goods, or reject the Order and notify the Customer of such rejection.
- (b) Airflow may, by giving notice to the Customer at any time before delivery of the Goods or provision of the Services, increase the price of the Goods and/or Services to reflect any increase in the cost of the Goods and/or Services that

is due to: (i) any factor beyond Airflow's control (including foreign exchange fluctuations, increases in taxes and duties, and increases in labour, materials and other manufacturing costs); (ii) any request by the Customer to change the Specification. Service Level Agreement, delivery or performance date(s). quantities or types of Goods and/or Services ordered; or (iii) any delay caused by any instructions of the Customer or failure of the Customer to give Airflow adequate or accurate information or instructions.

- (c) Unless otherwise stated on the Order, the price of the Goods is exclusive of the costs and charges of packaging, insurance and transport of the Goods, which shall be paid by the Customer when it pays for the Goods.
- (d) The price of the Goods or Services is exclusive of amounts in respect of value added tax (VAT). The Customer shall, on receipt of a valid VAT invoice from Airflow, pay to Airflow such additional amounts in respect of VAT as are chargeable on the supply of the Goods or provision of the Services.
- (e) Airflow may invoice the Customer for the Goods and/or Services on or at any time after the completion of delivery of the Goods or provision of the Services
- (f) The Customer shall pay the invoice in full and in cleared funds within 30 calendar days from the end of the calendar month in which the relevant invoice was raised, with the exception of invoices raised in January which shall become due and payable by the 28th day of February. Time of payment is of the essence.
- (g) If the Customer fails to make any payment due to Airflow under the Contract by the due date for payment (due date), then the Customer shall pay interest on the overdue amount at the rate of 2% per annum above HSBC Bank plc's base lending rate from time to time. Such interest shall accrue on a daily basis from the due date until the date of actual payment of the overdue amount, whether before or after judgment. The Customer shall pay the interest together with the overdue amount
- (h) The Customer shall pay all amounts due under the Contract in full without any deduction or withholding except as required by law and the Customer shall not be entitled to assert any credit, set-off or counterclaim against Airflow in order to justify withholding payment of any such amount in whole or in part. Airflow may at any time, without limiting any other rights or remedies it may have, set off any amount owing to it by the Customer against any amount payable by Airflow to the Customer

13. Customer's Insolvency or Change or Control

- (a) If the Customer becomes subject to any of the events listed in condition 13(b), or Airflow reasonably believes that the Customer is about to become subject to any of them and notifies the Customer accordingly, then, without limiting any other right or remedy available to Airflow. Airflow may cancel or suspend all further deliveries of Goods or provision of Services under the Contract or under any other contract between the Customer and Airflow without incurring any liability to the Customer, and all outstanding sums in respect of Goods and/o Services delivered or provided to the Customer shall become immediately due.
- (b) For the purposes of condition 13(a), the relevant events are: (i) the Customer suspends, or threatens to suspend, payment of its debts or, in the opinion of Airflow, is unable to pay its debts as they fall due or admits inability to pay its debts or (being a company) is deemed unable to pay its debts within the meaning of section 123 of the Insolvency Act 1986, or (being an individual) is deemed either unable to pay its debts or as having no reasonable prospect of so doing, in either case, within the meaning of section 268 of the Insolvency Act 1986, or (being a partnership) has any partner to whom any of the foregoing apply; or (ii) the Customer commences negotiations with all or any class of its creditors with a view to rescheduling any of its debts, or makes a proposal for or enters into any compromise or arrangement with its creditors; or (iii) any event occurs, or proceeding is taken, with respect to the Customer in any jurisdiction to which it is subject that has an effect equivalent or similar to any of the events mentioned in this condition 13(b); or (iv) a petition is filed, a notice is given, a resolution is passed, or an order is made, for or in connection with the winding up of the Customer; or (v) an application is made to court, or an order is made, for the appointment of an administrator or if a notice of intention to appoint an administrator is given or if an administrator is appointed over the Customer; or (vi) the holder of a qualifying floating charge over the Customer's assets has become entitled to appoint a receiver over the Customer's assets or a receiver is appointed over the Customer's assets, or (vii) a creditor or encumbrancer of the Customer attaches or takes possession of, or a distress, execution, sequestration or other process is levied or enforced on or sued against, the whole or any part of its assets and such attachment or process is not discharged within 14 days, or (viii) in the opinion of Airflow, the Customer suspends threatens to suspend ceases or threatens to cease to carry on all or substantially the whole of its business; or (ix) there is a change of control of the Customer (as defined in section 574 of the Capital Allowances Act 2001).

14. Limitation of Liability

- (a) Nothing in these Conditions shall limit or exclude Airflow's liability for: (i) death or personal injury caused by its negligence, or the negligence of its employees, agents or subcontractors (as applicable); (ii) fraud or fraudulent misrepresentation; or (iii) breach of the terms implied by section 12 of the Sale of Goods Act 1979; or (iv) defective products under the Consumer Protection Act 1987; or (v) any other matter in respect of which it would be unlawful for Airflow to exclude or restrict liability.
- (b) Subject to condition 14(a): (i) Airflow shall not be liable to the Customer, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, for any loss of profit or indirect or consequential loss arising under or in connection

with the Contract; and (ii) Airflow's total liability to the Customer in respect of all other losses arising under or in connection with the Contract, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, shall in no circumstances exceed the cost of the Goods supplied and/or Services provided under the Contract.

(c) Airflow shall not be liable to any person for any loss or damage, whether in contract, tort (including negligence), breach of statutory duty, or otherwise, even if foreseeable, arising under or in connection with use of or reliance on any recommendations, introductions or information provided by Airflow in relation to third party suppliers and/or installers.

15. Intellectual Property Rights, Confidentiality and Data Protection

- (a) All intellectual property rights in or arising out of or in connection with the Goods, the Services and/or the Contract shall be owned by Airflow
- (b) The Customer acknowledges that, in respect of any third party intellectual property rights, the Customer's use of any such intellectual property rights is conditional on Airflow obtaining a written licence from the relevant licensor on such terms as will entitle Airflow to license such rights to the Customer.
- (c) All Airflow Materials (as defined in condition 4(h)) are the exclusive property of
- (d) A party (Receiving Party) shall keep in strict confidence all technical or commercial know-how, specifications, inventions, processes or initiatives which are of a confidential nature and have been disclosed to the Receiving Party by the other party (Disclosing Party), its employees, agents or subcontractors, and any other confidential information concerning the Disclosing Party's business or its products or its services which the Receiving Party may obtain. The Receiving Party shall restrict disclosure of such confidential information to such of its employees, agents or subcontractors as need to know it for the purpose of discharging the Receiving Party's obligations under the Contract, and shall ensure that such employees, agents or subcontractors are subject to obligations of confidentiality corresponding to those which bind the Receiving Party. The Receiving Party may also disclose such of the Disclosing Party's confidential information as is required to be disclosed by law, any governmental or regulatory authority or by a court of competent jurisdiction
- (e) The Customer acknowledges and agrees that data which it provides to Airflow will be held on a data base and that personal data will be processed by or on behalf of Airflow for the purposes specified in these Conditions. If the Customer wishes to receive further information about Airflow's privacy policy, please visit Airflow's website at www.airflow.com

(f) This condition 15 shall survive termination of the Contract.

16. Import and export licences

The Customer is responsible for obtaining, at its own cost, such import licences and other consents in relation to the Goods as are required from time to time and, if required by Airflow, the Customer shall make those licences and consents available to Airflow prior to the relevant shipment. It is the Customer's obligation to acquaint itself and to comply with all applicable requirements and restrictions relating to the possession, use, import, or export of the Goods. It is the Customer's obligation to ensure that no Goods are exported or imported in violation of the laws of any jurisdiction into or through which the Goods are transported during the course of reaching the Delivery Point. Where necessary, the Customer shall inform Airflow at a reasonable time before delivery of any documents which it is necessary for Airflow to provide in order to allow export of the Goods in compliance with the laws of any relevant jurisdiction.

17. Force Majeure

- (a) Neither party shall be liable for any failure or delay in performing its obligations under the Contract to the extent that such failure or delay is caused by a Force Majeure Event. A Force Majeure Event means any event beyond a party's reasonable control, which by its nature could not have been foreseen, or, if it could have been foreseen, was unavoidable, including strikes, lock-outs or other industrial disputes (whether involving its own workforce or a third party's), failure of energy sources or transport network, acts of God, war, terrorism, riot, civil commotion, interference by civil or military authorities, national or international calamity, armed conflict, malicious damage, breakdown of plant or machinery, nuclear, chemical or biological contamination, sonic boom, explosions, collapse of building structures, fires, floods, storms, earthquakes, loss at sea, epidemics or similar events, natural disasters or extreme adverse weather conditions, or default of suppliers or subcontractors.
- (b) If the Force Majeure Event prevents Airflow from providing any Goods or Services for more than four consecutive weeks Airflow shall without limiting its other rights or remedies have the right to terminate the Contract immediately by giving written notice to the Customer.

18. Assignment and subcontracting

- (a) Airflow may at any time assign, transfer, charge, subcontract or deal in any other manner with all or any of its rights or obligations under the Contract.
- (b) The Customer may not assign, transfer, charge, subcontract or deal in any other manner with all or any of its rights or obligations under the Contract without the prior written consent of Airflow

19. Notices

(a) Any notice or other communication given to a party under or in connection with the Contract shall be in writing, addressed to that party at its registered office



(if it is a company) or its principal place of business (in any other case) or such other address as that party may have specified to the other party in writing in accordance with this condition, and shall be delivered personally, sent by prepaid first-class post, recorded delivery, commercial courier or fax.

- (b) A notice or other communication shall be deemed to have been received: if delivered personally, when left at the address referred to in condition 19(a); if sent by pre-paid 1st class post or recorded delivery, at 9.00 am on the 2nd Business Day after posting; if delivered by commercial courier, on the date and at the time that the courier's delivery receipt is signed; or, if sent by fax, one Business Day after transmission.
- (c) The provisions of this condition 19 shall not apply to the service of any proceedings or other documents in any legal action.

20. Severance

If any court or competent authority finds that any provision of the Contract (or part of any provision) is invalid, illegal or unenforceable, that provision or partprovision shall, to the extent required, be deemed to be deleted, and the validity and enforceability of the other provisions of the Contract shall not be affected. If any invalid, unenforceable or illegal provision of the Contract would be valid, enforceable and legal if some part of it were deleted, the provision shall apply with the minimum modification necessary to make it legal, valid and enforceable.

21. Waive

A waiver of any right or remedy under the Contract is only effective if given in writing and shall not be deemed a waiver of any subsequent breach or default. No failure or delay by a party to exercise any right or remedy provided under the Contract or by law shall constitute a waiver of that or any other right or remedy, nor shall it preclude or restrict the further exercise of that or any other right or remedy. No single or partial exercise of such right or remedy shall preclude or restrict the further exercise of that or any other right or remedy.

22. No partnership or agency

Nothing in the Contract is intended to, or shall be deemed to, establish any partnership or joint venture between the parties, nor constitute either party the agent of the other for any purpose. Neither party shall have authority to act as agent for, or to bind the other party in any way.

23. Third party rights

A person who is not a party to the Contract shall not have any rights under or in connection with it.

24. Variation

Any variation to the Contract, including the introduction of any additional terms and conditions, shall only be binding when agreed in writing and signed by Airflow.

25. Governing law and jurisdiction

The Contract, and any dispute or claim arising out of or in connection with it or its subject matter or formation (including non-contractual disputes or claims), shall be governed by, and construed in accordance with, English law, and the parties irrevocably submit to the exclusive jurisdiction of the courts of England and Wales.

UK Order & Delivery Charges*

(other territories upon application)

| For Product Category A,D,F,I,R,S,V,W (excludes category H, this is upon | Method of order placing | |
|---|-------------------------|----------|
| application) | | |
| | FAX, Email | WEB, EDI |
| Minimum order value accepted | £100 | £75 |
| Carriage paid order | £250 | £200 |
| Small Order Charge (order under £250) | £25 | £15 |
| Next Day Delivery | £25 | £15 |
| Direct to resellers customer | £25 | £15 |

*Subject to change. Valid August 2015

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