



SNUG

UNDERFLOOR HEATING

Smart systems, made simple

Introducing Snug

Electric and water underfloor systems from the experts at First Trace Heating Direct

At First Trace, we're experts in heating. Proud to be a family business with a real focus on looking after our customers, we've been supplying industry-leading, competitively priced heating systems for nearly 30 years.

Our underfloor heating systems and electric trace heating make homes and businesses all over the world warm, safe, comfortable places to be. They're backed up by practical, straight-talking advice and expert technical support, a free design service and guaranteed next-day delivery. That's why so many wholesalers, installers and homeowners trust us – and our systems – time and time again.

We never stop looking for new ways to give our customers great results, so we're really proud to introduce our latest brand, Snug Underfloor Heating. Bringing you the best in electric and water underfloor heating systems, Snug makes smart, high-performance heating easier than ever.

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Why choose underfloor heating?

There's nothing like the feeling of a warm, heated floor under your feet. It's great to wake up to and even better to come home to. It's easy to live with and cosy to lounge on. It's comfortable, reliable and surprisingly affordable. Which is why more and more people are choosing it – and discovering Snug.

We're a hardworking team, proud to bring you the very best underfloor heating systems on the market, at the very best prices. So, whether you're a homeowner, a builder, a plumber or a merchant, you can feel confident you're choosing top quality products, with all the support you need.

Our systems are just as at home in renovations as new builds and they're perfect under carpets, wooden floors, ceramic tiles or stone. You'll find out all about our range over the next few pages, but if there's anything you'd like to talk through, just get in touch. We're always happy to help.

01772 761 333

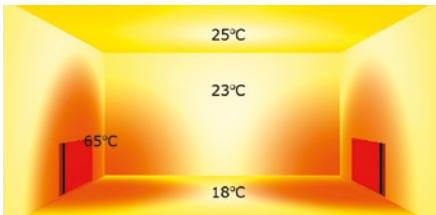
sales@firsttrace.co.uk

Why is underfloor heating better than radiators?

- Radiator heat rises, for hot heads and cold floors, while underfloor heat is more even, for better temperature control.
- Rooms without radiators look better, have more wall space and work well in open-plan homes.
- Underfloor heating lowers the moisture in the air, reducing dust mites and helping ease allergies.
- Underfloor heating gives you more accurate room-by-room temperature control, so you can tailor your system and save on your fuel costs.

Radiator Heating versus Underfloor Heating

Radiator heating



Underfloor heating



Electric system or water system?

Water systems, often called wet systems, are very versatile. From a single kitchen to a whole hotel, if you're looking for great efficiency, they're the best choice. They can be tuned to give out exactly the heat each room needs, and no more, creating comfortable warmth and cutting energy bills. Electric systems are agile – in a couple

of really useful ways. They're easy to fit in small areas like bathrooms, or places you can't plumb, like a new conservatory. And because they're made of strong but thin wire, they can be installed in rooms with low ceiling heights too. But the best bit? They heat up very quickly, for fast heat when you need it most.

Why choose Snug?

At Snug we really know our underfloor heating. We're experienced technical experts who love helping you get the most from our systems – finding just the right one for your project, creating a customised design and supporting you through installation and beyond. We'll also give you:

- Accurate, efficient, customisable systems that help reduce energy bills.
- A full quote within 24 hours of receiving your project details.
- Advice on choosing, installing and programming the right system for your needs.
- A free custom design service, from pipe and board layouts to flow rates and full electrical schematics.
- Expert help tackling your specific challenges, from limited budget to limited space or time.
- A full warranty on every system, including replacement parts and damage cover.
- The option to add smart wifi thermostats that learn how long your home takes to heat.
- Straight-talking, expert support, whether you're a homeowner or a heating professional.



Free design service



24hr quotations



Full product warranty





Electric underfloor heating

Flexible, streamlined systems with super-fast heat up

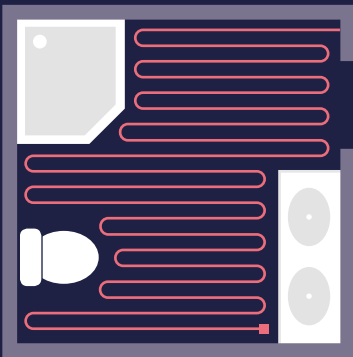
Snug Mats

Our Snug Mats are one of the easiest floor heating systems to install on the market today. They're made up of twin-conductor, single-lead elements and because they're mounted onto an adhesive fabric mesh, they stay flat as soon as they're rolled out.

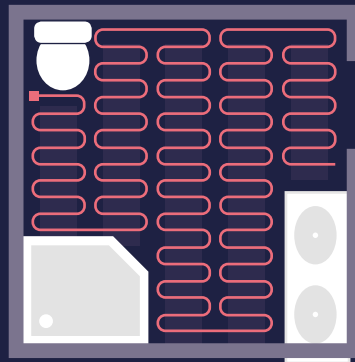
We offer a whole range of sizes, suitable for large and small spaces, and two

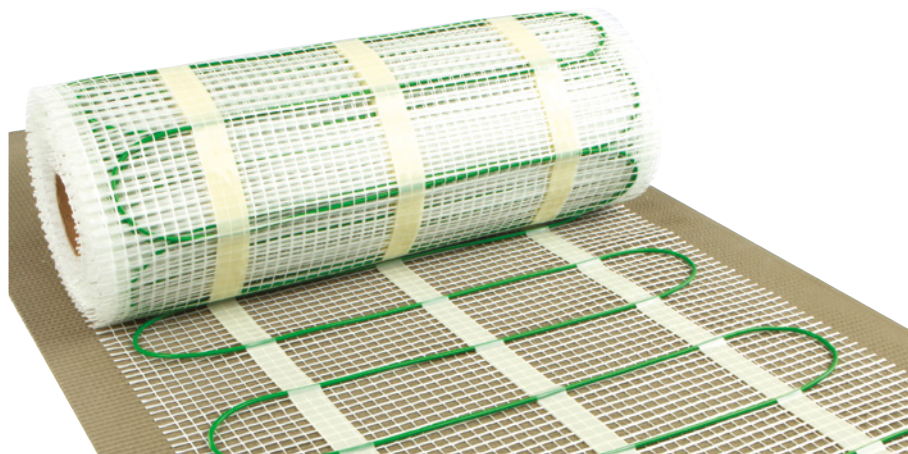
standard power outputs – **Snug Mat 160w/m²** for comfort heating or **Snug Mat 200w/m²** for primary heating. We've also created a super-thin, foil **Snug Mat FME** specifically for wooden or carpeted floors. Finally, our **Snug Cable** offers the same twin-conductor element in cable form, perfect for smaller spaces.

Snug Cable



Snug Mats

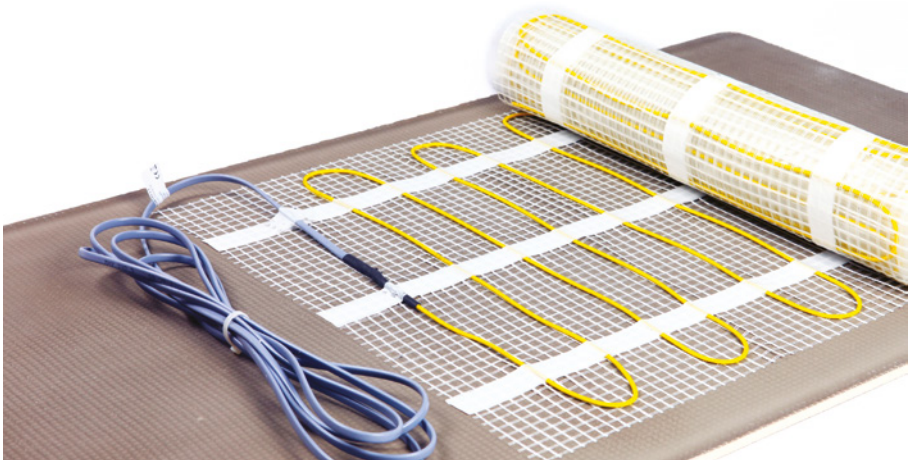




Snug Mat 160w/m²

- Designed for feel-good comfort heating.
- Ideal in any part of the house.
- Suitable under tile, stone and marble.
- Can also be fitted under carpet and engineered wood, with 10mm of levelling compound.
- One of the thinnest on the market, at just 2mm.
- Exceeds international standards.
- One simple connection cable.
- No electromagnetic fields.
- Lifetime cable warranty.

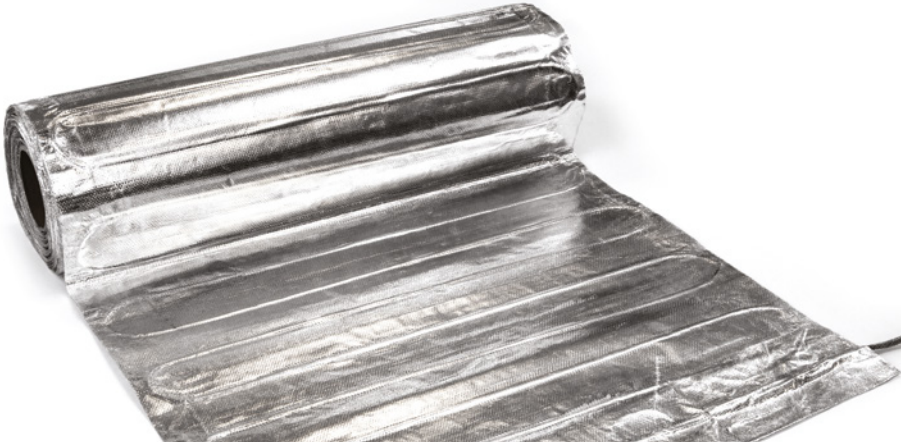
PART NO.	AREA OF MAT	WIDTH	LENGTH	LOADING
160MAT1	1m ²	0.5m	2m	160w
160MAT1.5	1.5m ²	0.5m	3m	240w
160MAT2	2m ²	0.5m	4m	320w
160MAT2.5	2.5m ²	0.5m	5m	400w
160MAT3	3m ²	0.5m	6m	480w
160MAT4	4m ²	0.5m	8m	640w
160MAT5	5m ²	0.5m	10m	800w
160MAT6	6m ²	0.5m	12m	960w
160MAT7	7m ²	0.5m	14m	1120w
160MAT8	8m ²	0.5m	16m	1280w
160MAT9	9m ²	0.5m	18m	1440w
160MAT10	10m ²	0.5m	20m	1600w
160MAT12	12m ²	0.5m	24m	1920w
160MAT15	15m ²	0.5m	30m	2400w



Snug Mat 200w/m²

- Extra powerful underfloor heating.
- Designed to be the single or primary heat source.
- Ideal in lounges, kitchens or conservatories.
- Suitable under tile, stone or marble.
- One of the thinnest on the market, at just 3mm.
- Exceeds international standards.
- One simple connection cable.
- No electromagnetic fields.
- Lifetime cable warranty.

PART NO.	AREA OF MAT	WIDTH	LENGTH	LOADING
200MAT1	1m ²	0.5m	2m	200w
200MAT1.5	1.5m ²	0.5m	3m	300w
200MAT2	2m ²	0.5m	4m	400w
200MAT2.5	2.5m ²	0.5m	5m	500w
200MAT3	3m ²	0.5m	6m	600w
200MAT4	4m ²	0.5m	8m	800w
200MAT5	5m ²	0.5m	10m	1000w
200MAT6	6m ²	0.5m	12m	1200w
200MAT7	7m ²	0.5m	14m	1400w
200MAT8	8m ²	0.5m	16m	1600w
200MAT9	9m ²	0.5m	18m	1800w
200MAT10	10m ²	0.5m	20m	2000w
200MAT12	12m ²	0.5m	24m	2400w
200MAT15	15m ²	0.5m	30m	3000w

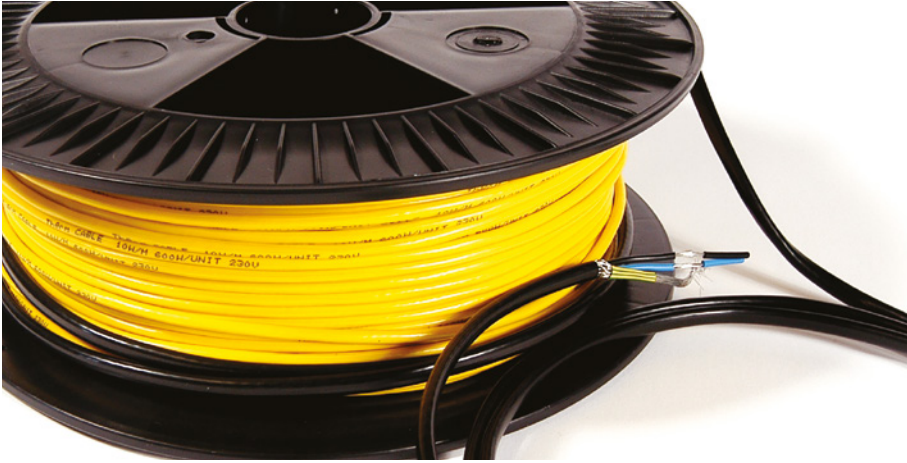


Snug Mat FME

- Creates gentle, even comfort heat.
- Suitable under carpet or wood*.
- Easy to install foil heating mat.
- Thinnest mat of its kind on the market.
- Available from 1-12m², at 150w/m².

*We recommend floating wood floors. If you choose carpet, we recommend keeping your carpet and underlay below 2 tog and having an RCD fitted by an electrical installer.

PART NO.	AREA OF MAT	WIDTH	LENGTH	LOADING
FMEMAT0.75	0.75m ²	0.5m	1.5m	112.5w
FMEMAT1	1m ²	0.5m	2m	150w
FMEMAT1.5	1.5m ²	0.5m	3m	225w
FMEMAT2	2m ²	0.5m	4m	300w
FMEMAT3	3m ²	0.5m	6m	450w
FMEMAT4	4m ²	0.5m	8m	600w
FMEMAT5	5m ²	0.5m	10m	750w
FMEMAT6	6m ²	0.5m	12m	900w
FMEMAT7	7m ²	0.5m	14m	1050w
FMEMAT8	8m ²	0.5m	16m	1200w
FMEMAT9	9m ²	0.5m	18m	1350w
FMEMAT10	10m ²	0.5m	20m	1500w
FMEMAT12	12m ²	0.5m	24m	1800w
INSULATION -5M	Close cell insulation 3mm thick x 5 metre rolls			
INSULATION	Close cell insulation 3mm thick x 10 metre rolls			
FIXAL5050	Aluminium foil fixing tape 50m			



Snug Cable

- Designed for areas too small for matting.
- Ideal as an economical single heat source.
- 10W/m loose cable option for awkward areas like bathrooms.
- 18W/m in-screed option for installation in 50-100mm concrete screed.
- One simple connection cable.
- Supplied with fixing tape.
- One of the thinnest on the market, at just 2mm.

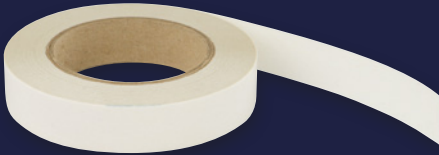


PART NO.	CABLE LENGTH (M)	FLOOR AREA (M ²)				TOTAL WATTS	TOTAL AMPS	TOTAL CABLE RESISTANCE (OHMS)
		100w/m ² (100mm spacings)	120w/m ² (82mm spacings)	160w/m ² (62mm spacings)	200w/m ² (50mm spacings)			
10Cable10	10	1	0.83	0.62	0.5	100	0.44A	480-556Ω
10Cable20	20	2	1.67	1.25	1	200	0.9A	240-290Ω
10Cable30	30	3	2.5	1.87	1.5	300	1.30A	160-195Ω
10Cable40	40	4	3.34	2.5	2	400	1.7A	120-142Ω
10Cable60	60	6	5	3.75	3	600	2.6A	80-90Ω
10Cable80	80	8	6.67	5	4	800	3.5A	61-68Ω
10Cable100	100	10	8.34	6.25	5	1000	4.4A	49-55Ω
10Cable120	120	12	10	7.5	6	1200	5.2A	40-46Ω
10Cable150	150	15	12.5	9.37	7.5	1500	6.5A	32-37Ω

PART NO.	CABLE LENGTH (M)	FLOOR AREA (M ²)		TOTAL WATTS	TOTAL AMPS	TOTAL CABLE RESISTANCE (OHMS)
		160w/m ² (106mm spacings)	200w/m ² (85mm spacings)			
18Cable10	10	1.12	0.9	180	0.80A	309 - 267
18Cable20	20	2.25	1.8	360	1.56A	154 - 133
18Cable30	30	3.37	2.7	540	2.35A	103 - 89
18Cable60	60	6.75	5.4	1080	4.70A	51 - 44
18Cable90	90	10.12	8.1	1620	7.05A	34 - 29
18Cable120	120	13.5	10.8	2160	9.40A	25 - 22
18Cable140	140	15.75	12.6	2520	10.96A	22 - 19
18Cable165	165	18.56	14.85	2970	12.92A	19 - 16
18Cable195	195	21.94	17.55	3510	15.26A	16 - 13

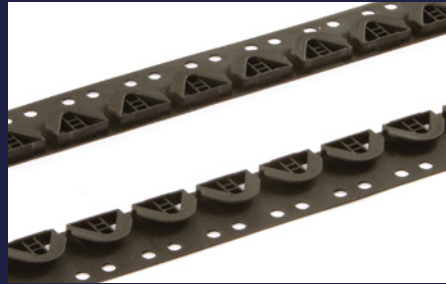
Before you decide which product's right for your project, please check the insulation properties of the building and do a heat loss calculation. Need some help? Just call us on 01772 761 333.

Cable fixing options



Double-sided tape

Double-sided tape is supplied with every kit. Just mark the path of your cable on the floor, then place pieces of double-sided tape horizontally across it, making sure you can still see the cable path. Lay the cable over the tape, onto the marked path, and add another layer of tape on top to hold it down.



ThermBlocks

Our ThermBlocks are 300mm long grooved plastic strips, designed to fit along two of the edges of the wall. They can be fixed down using the double-sided tape provided or screwed down into the subfloor. Once they're secure, just loop the cable in the pre-grooved angles. This will provide even spacings and speed up installation.



ThermFIX

ThermFix is a metal band with punched-out hooks, designed to help you fix the cable to the floor. You can attach the band to the subfloor using double-sided tape, or by screwing it down. Place the band every 1m across the width of the floor to fix the cable securely. It can also be used with ThermBlocks.



In-screed Clips

Our in-screed clips are designed for laying cable directly onto an insulation subfloor. They come in bags of 300 and should be fixed down every 300mm along the cable.



Thermostats

Getting the right heat for your home shouldn't be a headache. That's why we've created a range of attractive, intuitive thermostats that make life easier. From our no-nonsense button-press controller to our smart wifi-enabled system or sleek touch-screen panel, they're all designed with users in mind.





Snug button-press thermostat

Part code: Control R-E

- Simple to use.
- Large LCD screen.
- Available in white or silver.
- Can be set to control air, floor or air and floor.
- Built-in temperature limiter for laminate and wood floors.
- Comes with floor probe.

Specification

- 3000w / 230v.
- 5°C to 35°C.
- Unit size 86 x 97mm.
- Unit depth 35mm.
- 2 year manufacturer's warranty.
- IP20.

Self-learning
Thermostat



Snug touch-screen thermostat

Part code: Control T-E

- **Self-learning for optimum comfort and efficiency.**
- Automatic brightness dimmer.
- Helpful holiday mode.
- Inbuilt temperature and humidity sensor.
- Large interactive high resolution TFT LCD touch screen.
- Can be set to control air, floor or air and floor.
- Able to simultaneously control 2 remote probes, so you can position the unit out of sight if you choose.
- Built-in temperature limiter for laminate and wood floors.
- Comes complete with floor probe.
- High-end look, available in white or black.

Specification

- 3500w / 230v.
- 5°C to 35°C.
- Unit size 85 x 95mm.
- Wall incision depth 35mm.
- 2 year manufacturer's warranty.
- IP20.
- Probe = 10K NTC.

**SELF
LEARNING**

SnugStat wifi thermostat



Part code: SnugStat-E

- **Can be controlled remotely from your smartphone.**
- **Self-learning for optimum comfort and efficiency.**
- **Smart dynamic geo-location function.**
- Automatic brightness dimmer.
- Helpful holiday mode.
- Inbuilt temperature and humidity sensor.
- Can be set to control air, floor or air and floor.
- Able to simultaneously control 2 remote probes, so you can position the unit out of sight if you choose.

- No central hub needed.
- High-end look, available in white or black.

Specification

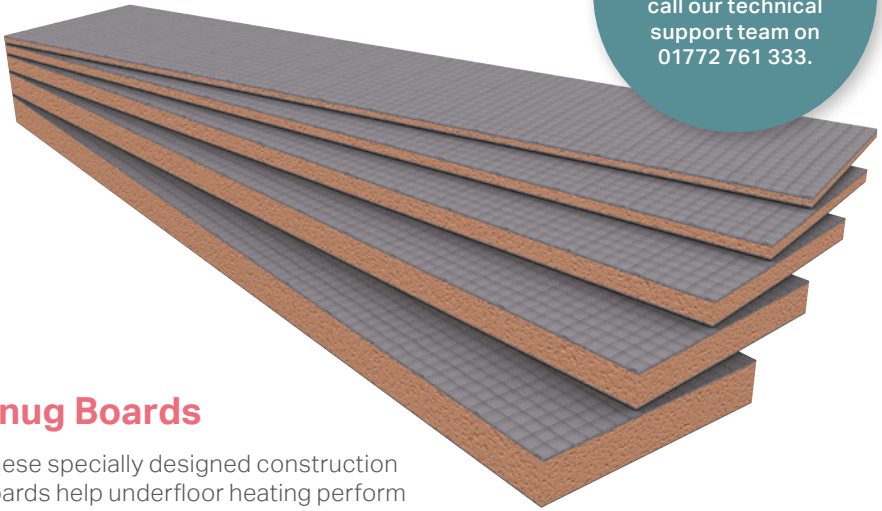
- 3500w / 230v.
- 5°C to 35°C.
- Unit size 85 x 95mm.
- Wall incision depth 35mm.
- 2 year manufacturer's warranty.
- IP20.
- Comes complete with floor probe.
- Probe = 10K NTC.



The SnugStat app is compatible with both **Android** and **iOS**



To find out more about any of our accessories, just call our technical support team on 01772 761 333.



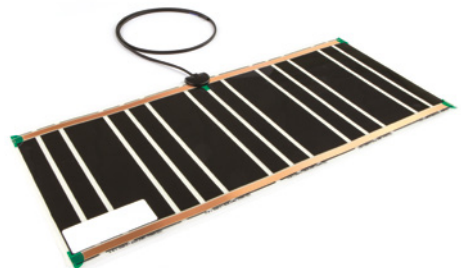
Snug Boards

These specially designed construction boards help underfloor heating perform even better. Dramatically reducing heat lost into the ground, they get rooms warm faster and reduce running costs too.



Snug Flexilevel

This fibre-reinforced self-levelling compound gives heating mats and cables extra protection – ideal before you begin tiling.



Snug Mirror

Our extensive range of demister heaters is perfect for keeping mirrors clear. They're available in a range of sizes and have adhesive backing for easy installation. **Contact our support team for details.**

Installing your Snug system

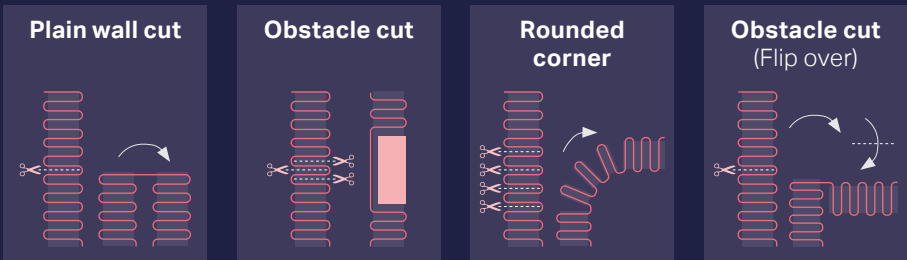
We've designed all of our electric underfloor heating systems to be simple and stress free to install. So, whether you're a DIY enthusiast or a specialist contractor, you can achieve the results you want, fast.

We always recommend asking a qualified electrician to advise on the electrics and help with your final connection to the mains – and if you've got any other questions, we're just a phone call away. We'll talk you through your installation, help with troubleshooting and give you friendly, straight-talking advice every time.

Need some expert advice?
We'd love to help. Just call us on 01772 761 333.

Our electric underfloor heating is designed to operate at 230v and needs a correctly sized RCD (residual current device) for safety.

The easiest ways to fit your mat



Frequently asked questions

How much do electric systems cost to run?

Running costs are really reasonable. For example, our 160w/m² Snug Mats cost less than 1p per square metre per hour to run.

How long do floors take to heat up?

It depends which system you choose and how well insulated your sub floor is. If you use our insulated construction boards under tiles, your floor should get up to temperature within an hour. Because they're more powerful, our 200w/m² Snug Mats heat up faster than the 160w/m² version.

Do I need to get an expert to install my Snug Mats or Snug Cable?

No. We've designed our systems to be really easy to install, even if you're not an expert. Please remember though that the electrical supply must be protected by a correctly sized RCD (residual current device), either at the mains or a fused spur. For safety, we do recommend asking an electrician to make the final connection to your mains wiring.

Do I need to insulate my floors too?

If you've got room to insulate, we always recommend it. We know that in lots of homes floor level is critical and even adding as little as 6mm of insulation just isn't practical. But if you can do it, you'll feel the benefit.

Our Snug Mat 160w/m² and 200w/m² systems give really good results on uninsulated concrete floors, both in conservatories and internal rooms. However, you'll still be losing up to 30% of the heat you produce into the ground. Your floor will also take longer to heat up and cost more to run. If you choose to add insulation, you can do so either below the subfloor or as a layer of backing board on top of the subfloor. Even better, do both.

What floor bases are suitable to lay electric underfloor heating on?

Marine ply and thermal construction board, such as our Snug boards, are best. However, you can also lay it on concrete, but we would recommend laying it on top of our Snug boards, to maximise the efficiency.

Is there anywhere I can't have underfloor heating?

If you're using our Snug Mat FME under a wooden floor, make sure you don't put any heating in areas where there's going to be a thermal block – for example a kitchen unit, bath, large beanbag or piece of solid furniture with no legs to create airflow underneath. This can prevent heat escaping and cause your system to overheat. For wooden floors, we also recommend setting the thermostat to air + floor mode to turn on the floor limiter.



Water underfloor heating

Powerful, efficient systems you can use anywhere

To get the best results from a water underfloor heating system, you'll need to choose the right type for your particular needs. Here's our quick guide to your options. You'll find more detail on each one over the next few pages.

Screed systems

There's no doubt about it, screed systems give you the best possible output. They're also the cheapest option and the most efficient. The drawback is, they need space. Typically, they need around 200mm because they rely on heating a thermal mass. There are three different screed systems to choose from:

- Staples: the cheapest way to lay this kind of system on a budget.
- Clip rails: easier, faster installation, great for big, open rooms.
- Castellation mats: the most expensive screed option, but the fastest. They're also ideal if you're laying a water system on a solid concrete floor without insulation.

Low-profile systems

These are great when you're retrofitting underfloor heating or working with low ceiling heights. They're also perfect when you're fitting a water system

upstairs because they only need 18mm of space. Plus they're easy to install, even if you're doing the job on your own. Adding our Snug Support low-profile ends makes installation much faster and easier too.

Suspended floor systems

These systems are designed specifically for upper floors and there are two main options to choose from:

- Suspended Heat Plates: fits neatly between standard 400mm joists and is easy to install.
- Fit from below heat plates: ideal if you're renovating downstairs and want to add underfloor heating upstairs without lifting the floor. It fits neatly between any size of joist and is quick and easy to install.



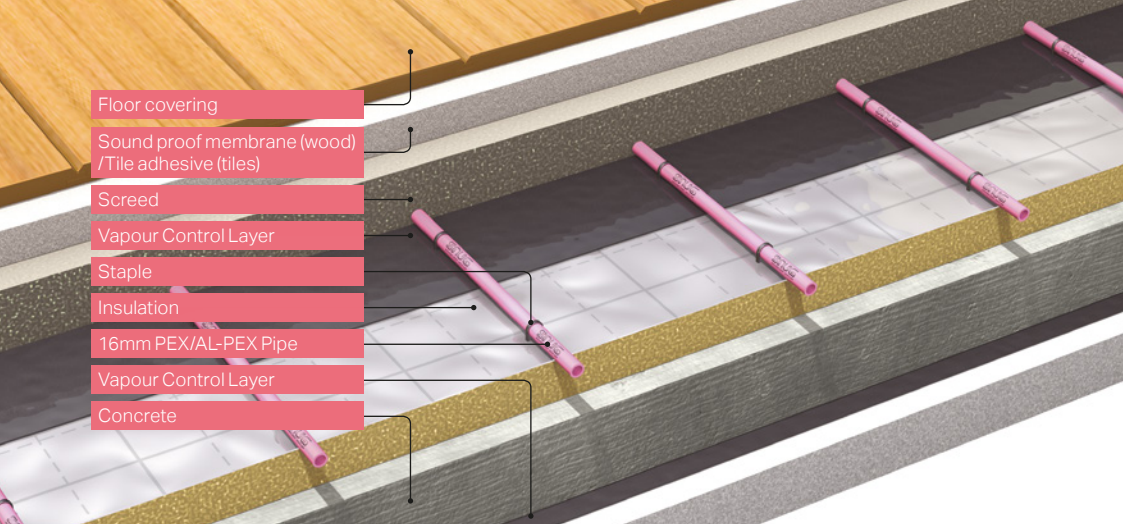
Free design service



24hr quotations



Full product warranty



Screed systems

Staples

What's unique about the Snug system?

- We use high temperature rated PEX pipe, rated as 98°C at 10 bar, rather than PERT pipe, which is only rated at 65°C.
- AL-PEX is WRAS approved, for extra peace of mind.
- To find out more about the high quality pipes we use, please turn to page 34.

When should I choose them?

- When you have enough space. You'll need a minimum height of 85mm (based on a 35mm insulation and 50mm of liquid screed), but the ideal height is between 175mm and 225mm (based on 100mm to 150mm insulation and 75mm of screed).
- When you're looking for the most efficient option.
- When you want to achieve the most even heat.
- When you're using insulation board (never without).

What are the benefits?

- They're the most cost effective screed system available.
- They're very straightforward to install.
- You can use them with any screed.

- They're good for irregular shaped rooms.
- They generate outputs of up to 122w/m².

System outputs based on BS EN 1264 Pt. (2)

FLOW TEMP °C	TILE	WOOD	CARPET (1.5 TOG)
55	122 w/m ²	76 w/m ²	66 w/m ²
50	97 w/m ²	61 w/m ²	53 w/m ²
45	73 w/m ²	46 w/m ²	40 w/m ²
40	48 w/m ²	30 w/m ²	26 w/m ²

Patterns you can use with this system

Suitable for either PEX or AL-PEX pipes (16mm x 2mm).

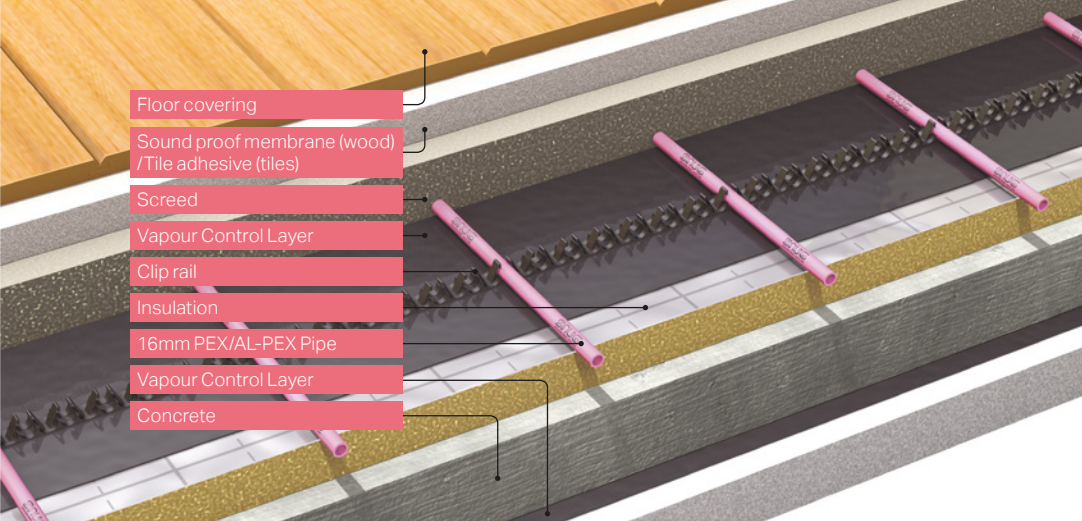


The dimensions

- Pipe size: 16mm ø.
- Maximum pipe length: 100m.
- Maximum area per manifold: 240m².
- Maximum area covered by one circuit (at different spacings):

200mm	150mm	100mm
20m ²	15m ²	10m ²

For pre-sized room product pack information please see page 44.



Screed systems

Clip rails

What's unique about the Snug system?

- We use high temperature rated PEX pipe, rated as 98°C at 10 bar, rather than PERT pipe, which is only rated at 65°C.
- AL-PEX is WRAS approved, for extra peace of mind.
- To find out more about the high quality pipes we use, please turn to page 34.

When should I use them?

- When you have enough space. You'll need a minimum height of 95mm (based on a 45mm insulation and 50mm of liquid screed), but the ideal height is between 175mm and 225mm (based on 100mm to 150mm insulation and 75mm of screed).
- When it's important to get a system with the highest possible heat output.
- When you're looking for the most efficient option.
- When you want to achieve the most even heat.
- When you're using insulation board (never without).

What are the benefits?

- They're the second most cost effective screed system.
- They're very straightforward to install.
- You can use them with any screed.
- They're pre-spaced for you.

- They're good for irregular shaped rooms.
- They generate outputs of up to 122w/m².

System outputs based on current standard BS EN 1264 Pt. (2)

FLOW TEMP °C	TILE	WOOD	CARPET (1.5 TOG)
55	122 w/m ²	76 w/m ²	66 w/m ²
50	97 w/m ²	61 w/m ²	53 w/m ²
45	73 w/m ²	46 w/m ²	40 w/m ²
40	48 w/m ²	30 w/m ²	26 w/m ²

Patterns you can use with this system

Suitable for either PEX or AL-PEX pipes (16mm x 2mm).

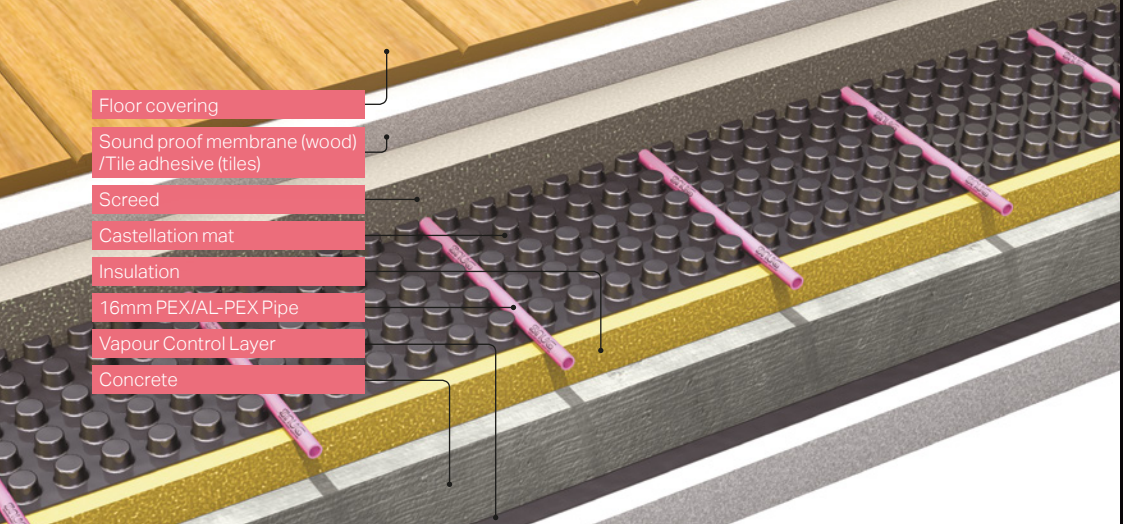


The dimensions

- Pipe size: 16mm ø.
- Maximum pipe length: 100m.
- Maximum area per manifold: 240m².
- Maximum area covered by one circuit (at different spacings):

200mm	150mm	100mm
20m ²	15m ²	10m ²

For pre-sized room product pack information please see page 4.



- Floor covering
- Sound proof membrane (wood) / Tile adhesive (tiles)
- Screed
- Castellation mat
- Insulation
- 16mm PEX/AL-PEX Pipe
- Vapour Control Layer
- Concrete

Screed systems

Castellation mats

What's unique about the Snug system?

- Our pipework can be laid at 45° angles, not just 90°.
- We use high temperature rated PEX pipe, rated as 98°C at 10 bar, rather than PERT pipe, which is only rated at 65°C.
- AL-PEX is WRAS approved, for extra peace of mind.
- To find out more about the high quality pipes we use, please turn to page 34.

When should I choose them?

- When you have enough space. When laying direct on the subfloor you'll need a minimum height of 50mm (based on 50mm of liquid screed), but the ideal height is between 175mm and 225mm (based on 100mm to 150mm insulation and 75mm of screed).
- When it's important to get a system with the highest possible heat output.
- When you're looking for the most efficient option.
- When you want to achieve the most even heat.
- When you need to get your system installed quickly.
- When you're not using any insulation.

What are the benefits?

- They're the fastest system to install.
- They're really easy to fit.
- You can use them with any screed.
- You can use them with any flat floor finish.

- They're pre-spaced for you at 50mm.
- They're good for irregular shaped rooms.
- They generate outputs of up to 122w/m².
- You don't need a vinyl sheet to separate the insulation from the screed.

System outputs based on BS EN 1264 Pt. (2)

FLOW TEMP °C	TILE	WOOD	CARPET (1.5 TOG)
55	122 w/m ²	76 w/m ²	66 w/m ²
50	97 w/m ²	61 w/m ²	53 w/m ²
45	73 w/m ²	46 w/m ²	40 w/m ²
40	48 w/m ²	30 w/m ²	26 w/m ²

Patterns you can use with this system

Suitable for either PEX or AL-PEX pipes (16mm x 2mm).



The dimensions

- Pipe size: 16mm ø.
- Maximum pipe length: 100m.
- Maximum area per manifold: 240m².
- Maximum area covered by one circuit (at different spacings):

200mm	150mm	100mm
20m ²	15m ²	10m ²

For pre-sized room product pack information please see page 44.



**FREE DESIGN
SERVICE**

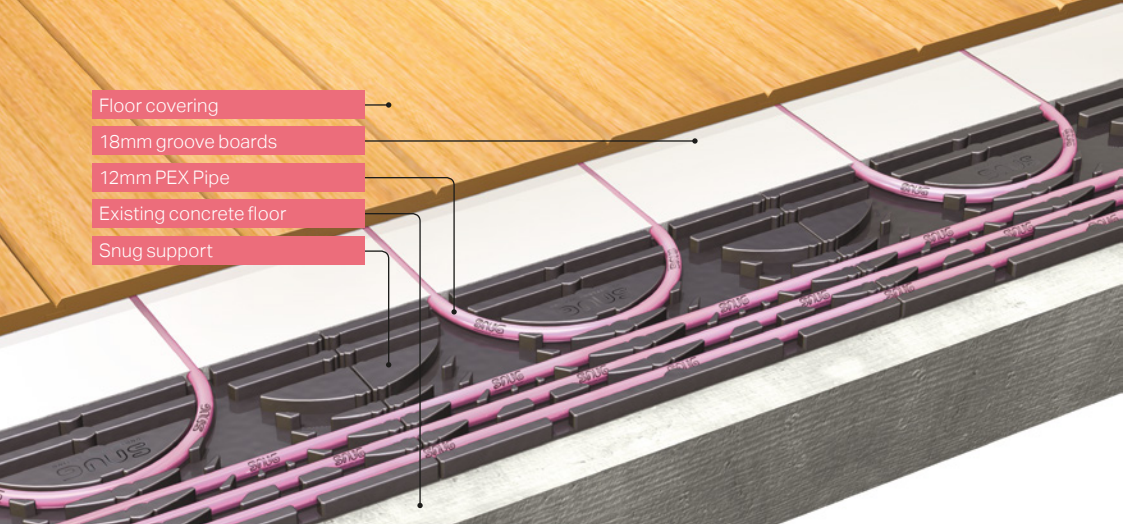


24HR QUOTATIONS



**FULL PRODUCT
WARRANTY**





Low-profile systems

Low-profile groove boards

What's unique about the Snug system?

- It's 45% cheaper than castellations mats and levelling compound.
- It saves valuable floor height. On average it's 3mm lower than using a low-profile castellations system with 16mm pipes and levelling compound.
- It's fast. Because it doesn't need levelling compound, you don't have to wait for anything to cure, so you can just tile straight on top.
- Our low-profile groove boards hold heat so it slowly radiates into the room, making the system extremely energy efficient and spreading heat more evenly than a typical or levelled system.

When should I choose them?

- When height is an issue so you need to save space.
- When you're fitting on top of floor boards and the joists below aren't regularly spaced.
- Either in new builds or retrofit projects.
- When there's no room for insulation (works well with or without).

What are the benefits?

- They're very fast to install.
- Fitting is an easy, one-person job.
- They're very low profile, at only 18mm deep.
- They distribute heat very evenly.

- You can use them with any flat floor finish.
- They're pre-spaced for you at 150mm.
- They're good for regular shaped rooms.
- They generate outputs of up to 104.4w/m².

System outputs based on similar products

(independent testing in progress)

FLOW TEMP °C	TILE	WOOD	CARPET (1.5 TOG)
55	104.4 w/m ²	77 w/m ²	64.1 w/m ²
50	87.7 w/m ²	64.7 w/m ²	53.9 w/m ²
45	71.1 w/m ²	52.4 w/m ²	43.7 w/m ²
40	54.4 w/m ²	40.1 w/m ²	33.4 w/m ²

Patterns you can use with this system

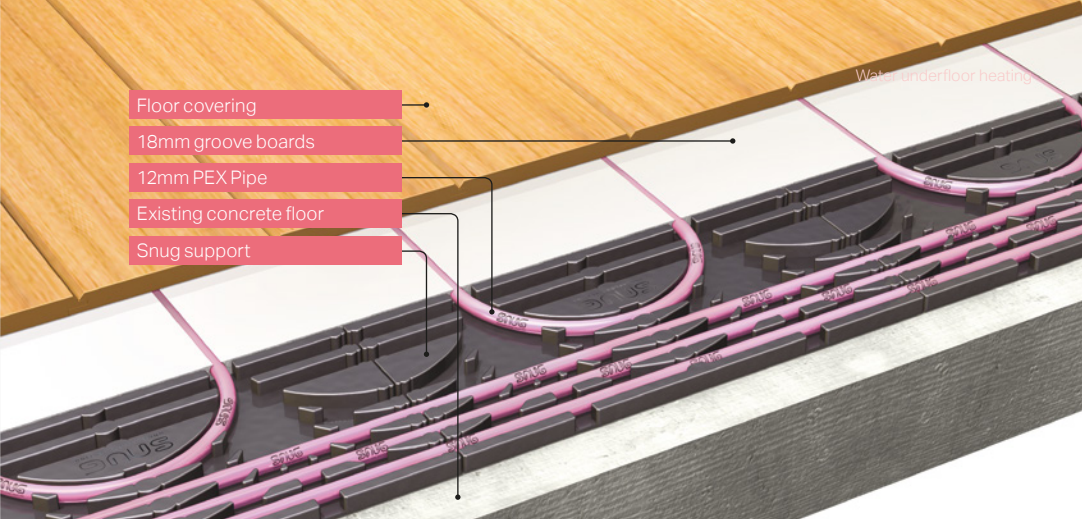
Suitable for PEX pipes (12mm x 2mm).



The dimensions

- Pipe size: 12mm ø.
- Maximum pipe length: 80m.
- Maximum area per manifold: 144m².
- Maximum area covered by one circuit: 12m² (pre-spaced at 150mm)
- Board size: 800 x 600 x 18mm.

For pre-sized room product pack information please see page 44.



Low-profile systems

Snug Supports Our low-profile ends

What's unique about the Snug system?

- Our Snug Support low-profile ends make it easier to install pipes in narrow halls than with castellated mats.
- They're installer friendly, letting pipework turn easily within the room for fast, simple, stress-free fitting.
- Combining the Snug Support low-profile ends with our low-profile groove boards means you won't need any levelling compounds or ply boards on top. That means there's no wait for floors to cure, and you can tile or lay wood floors straight on top. You'll also get maximum heat output.
- They're the most versatile end plate on the market, as you can see from the chart below.
- The unique design means you'll never need to cut into them.
- Our two size options give you a combined ten straight runs and six bends, so you'll have plenty of options when it comes to laying your pipes.

When should I choose them?

- When you're using our Snug low-profile groove boards. The two combine to create a complete system.
- When height is an issue so you need to save space.
- When you're fitting on top of floor boards and the joists below aren't regularly spaced.
- Either in new builds or retrofit projects.
- When there's no room for insulation (works well with or without).

What are the benefits?

- They're suitable for large and small areas.
- They go round corners easily and effectively.
- Pipe runs are spaced close together, so they fit in narrow hallways.
- They're available in two sizes and we can advise on the right one for your project.
- There's no waste because each one's sold individually and we'll calculate how many you need.
- They come with integrated pipe locking clips.

The most versatile end-plate on the market

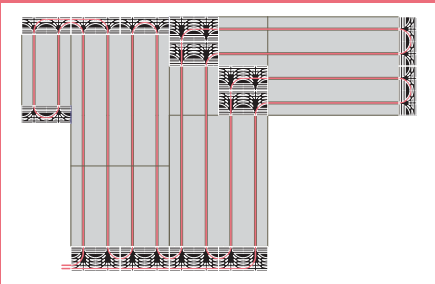
The Snug low-profile system, combining the Snug Groove Boards and Snug Support low-profile ends, is the easiest and quickest solid low profile system available on the market.

Laying a low-profile system can be a tricky and confusing task; knowing how and where to lay the supplied products, without running out of components is key. At Snug we provide easy to follow, hassle free designs, complete with pipe layouts as well as detailed plans advising where Snug Groove Boards and Snug Supports should be laid; eliminating all the guess work from your project.

Our expert design team and systems will also provide you with an exact materials list, resulting in reduced excess products or reorders of additional materials, that you may have run out of mid job, saving you time and additional expense.

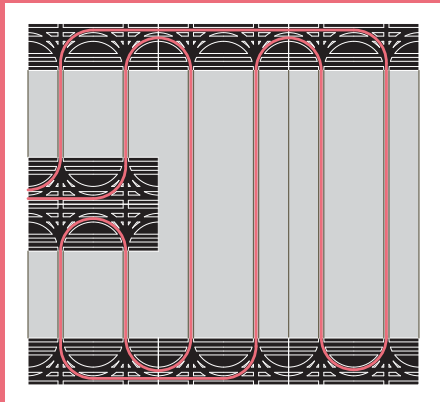
The below diagrams demonstrate the versatility of the Snug Low Profile system.

Turn in the room



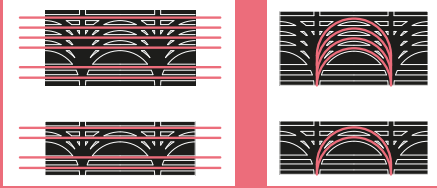
Allowing the pipe to turn in the room makes the Snug Support adaptable and easy to install, even in irregular shaped rooms.

Double back from connection pipes



The multiple bends in the Snug Support allow you to fill all the gaps in your room. A traditional system would typically leave a small area unheated near the door, leaving unpleasant cold spots in walkways.

Bends and straights



The combined 10 closer spaced pipes between two adjoining Snug Supports, feeder pipes will no longer take up considerable space in narrow hallways. This design allows the feeder pipes to be tucked up against the wall; reducing interference with the even heat of the rest of the room.

Plus, with the combined 6 bends between the Snug Supports, you are never short of options of how to lay your underfloor heating.

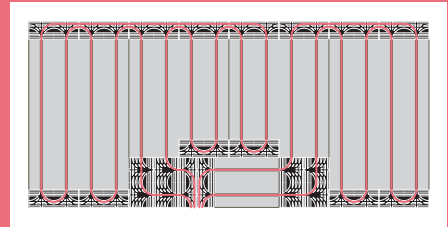
**"It's the easiest and
quickest solid low
profile system available
on the market"**

The most versatile end plate on the market

See how our Snug Support low-profile ends compare to the competition.

COMPANY	PIPE RETURN	PIPE CLIPS	TURN 90°	NO WASTE	EASY TO NAVIGATE SMALL SPACES	EASY TRANSITION	PRE-CUT FOR YOU
First trace	✓	✓	✓	✓	✓	✓	✓
Polypipe	✗	✗	✗	✗	✓	✓	✗
Solflex/UFH	✓	✓	✗	✗	✗	✓	✓
Myson	✓	✗	✓	✗	✗	✓	✗
Wavin	✓	✗	✗	✗	✗	✗	✗
Speedfit	✓	✗	✗	✗	✗	✗	✗

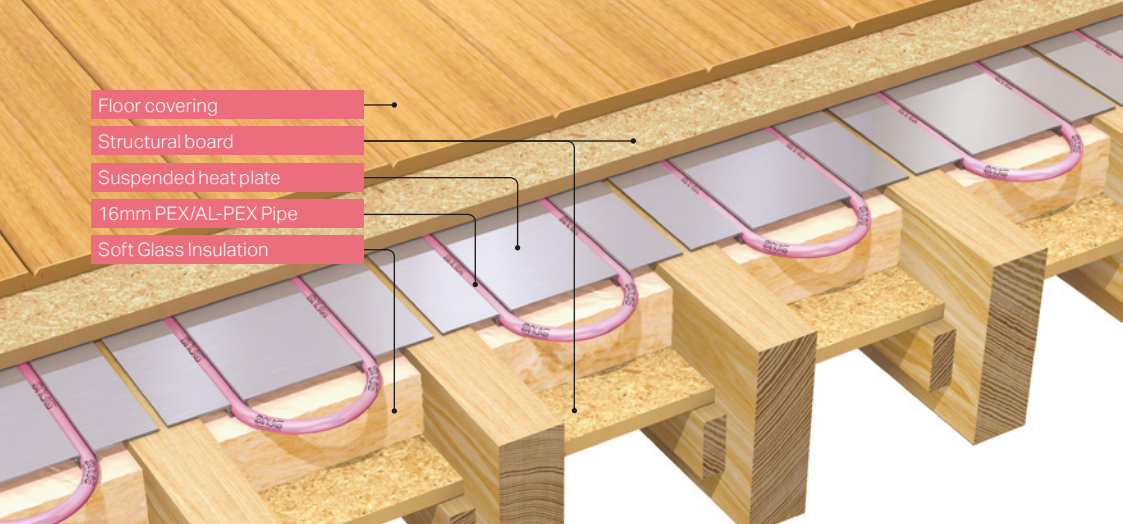
Spaced out connection pipes



The Snug Support's clever design removes the need for closely spaced pipes around the entrance of a room, allowing the system to produce a comfortable and even heat for the whole room.

Our technical team is always happy to help.

Just call 01772 761 333 or email
sales@firsttrace.co.uk



Floor covering

Structural board

Suspended heat plate

16mm PEX/AL-PEX Pipe

Soft Glass Insulation

Suspended floor systems

Suspended heat plates

What's unique about the Snug system?

- Our suspended heat plates have self-retaining grooves, making installation an easy, one-person job.

When should I choose them?

- When you're fitting between regularly spaced, standard 400mm joists.
- When the floor height can't be raised from its original level.
- When you've got to work on top of a solid floor (using batons).

What are the benefits?

- They won't raise your floor height.
- They're very easy to install.
- You don't need screed or a damp-proof membrane.
- They're pre-spaced for you at 133mm and 200mm.
- They work well in irregular shaped rooms.
- They generate outputs of up to 81w/m².

System outputs based on current standard BS EN 1264 Pt. (2)

FLOW TEMP °C	WOOD	CARPET (1.5 TOG)
55	81 w/m ²	66 w/m ²
50	70 w/m ²	57 w/m ²
45	58 w/m ²	47 w/m ²
40	47 w/m ²	38 w/m ²

Patterns you can use with this system

Suitable for either PEX or AL-PEX pipes (16mm x 2mm).

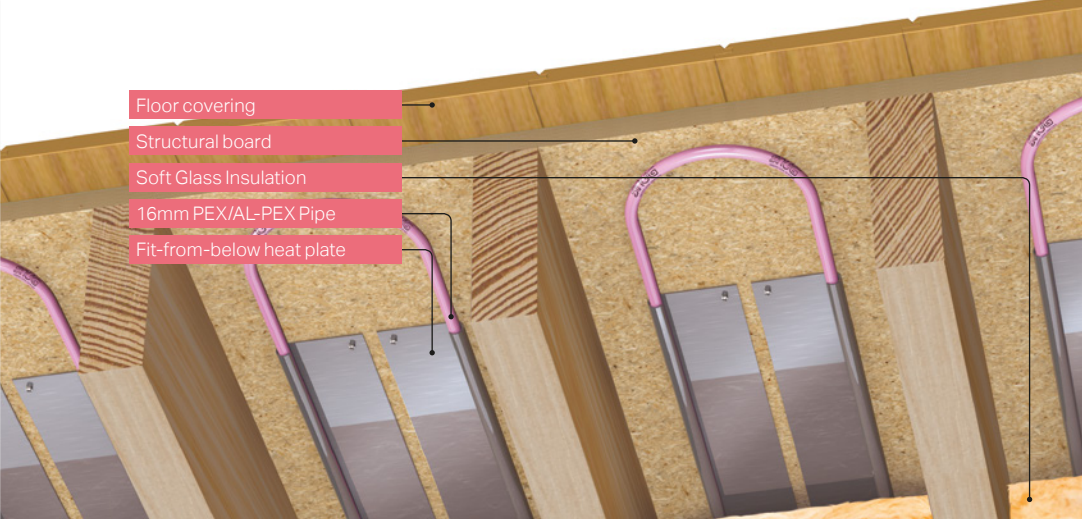


The dimensions

- Pipe size: 16mm ø.
- Maximum pipe length: 100m.
- Maximum area per manifold: 240m².
- Maximum area covered by one circuit (at different spacings).

200mm	133mm
20m ²	13.3m ²

For pre-sized room product pack information please see page 44.



Suspended floor systems

Fit-from-below heat plates

What's unique about the Snug system?

- The heat plates are specifically designed to sit between joists from below.
- They're versatile, single-tile plates that can be fitted to any joist width.
- They're easy for one person to install.

When should I choose them?

- When you don't want to lift floor boards from above.
- When you can't raise the floor height above its original level.
- When joists are webbed or not spaced evenly.

What are the benefits?

- They won't raise your floor height.
- They can be installed without lifting floor boards.
- They can be fitted to any sized joist, at any spacing.
- You don't need screed or a damp-proof membrane.
- They work well in irregular shaped rooms.
- They generate outputs of up to 81w/m².

System outputs based on current standard BS EN 1264 Pt. (2)

FLOW TEMP °C	WOOD	CARPET (1.5 TOG)
55	81 w/m ²	66 w/m ²
50	70 w/m ²	57 w/m ²
45	58 w/m ²	47 w/m ²
40	47 w/m ²	38 w/m ²

Patterns you can use with this system

Suitable for either PEX or AL-PEX pipes (16mm x 2mm).



The dimensions

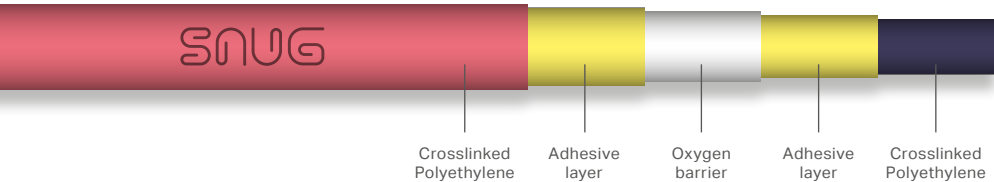
- Pipe size: 16mm ø.
- Maximum pipe length: 100m.
- Maximum area per manifold: 240m².
- Maximum area covered by one circuit (at different spacings).

200mm	150mm	133mm
20m ²	15m ²	13.3m ²

For pre-sized room product pack information please see page 44.

High-performance pipes

The right pipes are the heart of any water underfloor heating system, so we're very particular about the ones we supply. We believe PEX and AL-PEX pipes bring a whole range of real advantages. Here's why.



PEX pipes

What's unique about the Snug system?

- We give you extra peace of mind, with a full 10 year pipe warranty. As well as covering the cost of replacing any faulty parts, it also covers the cost of any damage caused to the home by manufacturing defects.

Why use PEX rather than PERT pipes?

- They make life easier for installers because they're lightweight and more flexible than PERT.
- PEX pipes can withstand up to 95°C, while PERT can only withstand 60°C. Water underfloor systems reach 65°C if their mixing valves are turned right up, so choosing PEX gives you peace of mind that your system will keep going strong, even at capacity.
- PEX doesn't need reaming if you use a pipe cutter, saving valuable time.

What are the benefits?

- They're more flexible and easier to work with than PERT and can bend to a radius of 75mm, so they fit any of our systems.
- They're easy to fit into boards, plates and supports.

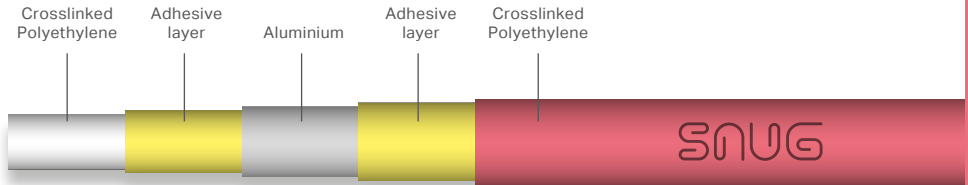
- They can be used in any kind of room.
- They come in two sizes: 12 x 2mm and 16 x 2mm.
- They're available in lengths of between 75m and 500m, ideal for bigger projects.
- They're strong and resilient, working between -44°C and 95°C at 10 bar of pressure.
- They're made from five-layer cross-linked polyethylene, which has an EVOH oxygen barrier to stop oxygen entering the system, maximising the lifespan of the pipes.
- They come with a full 10-year warranty.

What systems are PEX pipes suitable for?

Staples	■
Clip rail	■
Castellation mats	■
Suspension heat plates	■
Fit-from-below heat plates	■
Low profile (12mm system only)	■

Key

- Easy to use
- More difficult to use



AL-PEX pipes

What's unique about the Snug system?

- We give you extra peace of mind, with a full 10 year pipe warranty. As well as covering the cost of replacing any faulty parts, it also covers the cost of any damage caused to the home by manufacturing defects.

Why use AL-PEX rather than AL-PERT pipes?

- They make life easier for installers because they're lightweight and more flexible than AL-PERT.
- AL-PEX pipes can withstand up to 95°C, while AL-PERT can only withstand 60°C. Water underfloor systems reach 65°C if their mixing valves are turned right up, so choosing AL-PEX gives you peace of mind that your system will keep going strong, even at capacity.
- They don't need reaming if you use a pipe cutter, saving valuable time.

What are the benefits?

- They're very flexible and easy to work with.
- They come in a versatile 16mm x 2mm size.
- They hold their shape once bent, so can easily be installed by one person.

- They're strong and resilient, working between -44°C and 95°C at 10 bar of pressure.
- They're made from five-layer cross-linked polyethylene, with a strong aluminium core to hold its shape once bent, making it ideal for single person installation.
- They're WRAS approved and can be used for potable water.
- They come with a full 10-year warranty.

What systems are AL-PEX pipes suitable for?

Staples	■
Clip rail	■
Castellation mats	■
Suspension heat plates	■
Fit-from-below heat plates	■
Low profile	■

Key

- Easy to use
- More difficult to use
- Can't be used

Manifolds, mixers and pumps

Manifolds

What's unique about the Snug manifold?

- We only use Swiss-made Taconover flow meters, for exceptional reliability and accuracy.
- Pumps and mixers can be mounted on either side, so it's very versatile and easy to install.
- You can easily extend it to add extra zones, or blanket off zones you don't want to heat.
- We use a patented mixer that can fully isolate water from the boiler to stop the system overheating.

Our Snug premium stainless steel manifolds distribute the flow of water through your underfloor heating system. They come in a range of sizes, from 2 to 12 ports, providing multi-room control and the ability to run a number of different underfloor heating systems from just one manifold.

You'll find them quick and easy to install, as well as simple to expand for future projects. They're also equipped with very reliable, accurate flow meters, drain

points and isolation valves.

What are the benefits?

- Quick, easy installation and expansion.
- Partially pre-assembled, ready to fit to the wall.
- A range of sizes to suit any kind of project.
- High quality manufacturing, meeting BS EN 1264-4.
- Made from high-grade 304 stainless steel to avoid corrosion.
- No maintenance needed.

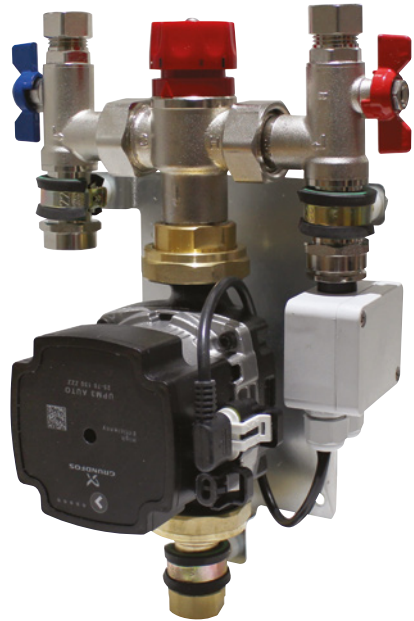


Single-room mixer

Our single-room mixer is an all-in-one system combining a pump, mixer and pipe connections. The mixer's temperature dial adjusts the amount of hot water entering the system, giving you a lower operating temperature and improved efficiency.

What are the benefits?

- Suitable for a room needing up to 3kw of heat. If you'd like more guidance on the heat your room needs, please call our team on 01772 761 333.
- Water temperature can be set through the mixer, from 35°C to 65°C.
- Pre-assembled and pre-wired for easy installation.
- High quality manufacturing, meeting BS EN 1264-4.
- No maintenance needed.





Combined pump and mixer

Our combined pump and mixer is designed for larger or multi-zone systems and can be attached directly to either side of our manifold without any extra parts. Its state-of-the-art mixer allows temperatures to run from 25°C up to 65°C, making it ideal for every home, from passive to high heat loss properties. By adjusting the amount of hot water entering the system, it lowers operating temperature and improves efficiency.

What are the benefits?

- High quality Grundfos UPM3 Auto with patented mixing technology.
- Suitable for a room needing up to 14kw of heat. If you'd like more guidance on the heat your room needs, please call our team on 01772 761 333.
- Offers a range of temperatures, from 25°C to 65°C.
- Compact, easy to build and fits on either side of the manifold for added flexibility.
- Flow can come from the side or below, whichever suits the space you're working with.
- High quality manufacturing, meeting BS EN 1264-4.
- No maintenance needed.

What's unique about these Snug products?

Our Snug combined pump and mixer:

- Has a unique design that stops limescale build up, for a longer lifecycle.
- Allows water to run at 25°C, exactly what The Underfloor Heating Design & Installation Guide recommends to help the first heat up of your screed.
- Adapts to fit an overheat thermostat and bring pipes in from multiple directions.
- Can fully isolate water from the boiler to stop the system from overheating.
- Comes with all the fittings you need to connect it to the manifold, quickly and easily.

Plus, our Snug combined pump and mixer:

- Uses the powerful new Grundfos UPM3 Auto pump, allowing a 7 metre head. It pumps further than its competitors while using less energy, so it's ideal in homes of any size.
- Protects your system if something goes wrong, automatically shutting itself down so it never runs dry.

Snug water system thermostats

We believe even the most advanced systems should be easy and stress free to use. That's why we've created a range of attractive, intuitive thermostats that make controlling heat at home really simple.

From our no-nonsense button-press controller to our smart wifi-enabled system, our innovative Neo Air thermostat to our sleek touch-screen panel, each one's designed with users in mind. Even better, we're here to help you choose the right option for your project – and get up and running.

Our technical team is always happy to help.

Just call 01772 761 333 or email
sales@firsttrace.co.uk



Snug button-press thermostat

Part code: Control R

- Simple to use.
- Large LCD screen.
- Available in white or silver.
- Can be set to control air, floor or air and floor.
- Built-in temperature limiter for laminate and wood floors..

Specification

- 3000w / 230v.
- 5°C to 35°C.
- Unit dimensions 86 x 97mm.
- Unit depth 35mm.
- 2 year manufacturer's warranty.
- IP20.



Snug touch-screen thermostat

Part code: Control T

- **Self-learning for optimum comfort and efficiency.**
- Automatic brightness dimmer.
- Helpful holiday mode.
- Inbuilt temperature and humidity sensor.
- Large interactive high resolution TFT LCD touch screen.
- Can be set to control air, floor or air and floor.
- Able to simultaneously control 2 remote probes, so you can position the unit out of sight if you choose.
- Built-in temperature limiter for laminate and wood floors.
- High-end look, available in white or black.

Specification

- 3500w / 230v.
- 5°C to 35°C.
- Unit dimensions 85 x 95mm.
- Unit depth 35mm.
- 2 year manufacturer's warranty.
- IP20.

SnugStat wifi thermostat



Part code: SnugStat

- **Can be controlled remotely from your smartphone.**
- **Self-learning for optimum comfort and efficiency.**
- **Smart dynamic geo-location function.**
- Automatic brightness dimmer.
- Helpful holiday mode.
- Inbuilt temperature and humidity sensor.
- Can be set to control air, floor or air and floor.
- Able to simultaneously control 2 remote probes, so you can position the unit out of sight if you choose.
- No central hub needed.
- High-end look, available in white or black.

Multi-Purpose Use:

- Underfloor heating
- Central heating
- Hot water heating
- Heated towel rails'

Specification

- 3500w / 230v.
- 5°C to 35°C.
- Unit size 85 x 95mm.
- Wall incision depth 35mm.
- 2 year manufacturer's warranty.
- IP20.
- Probe = 10K NTC.



The SnugStat app is compatible with both **Android** and **iOS**





Snug Neo Air Thermostat

Part code: NeoAir

- High-end look, available in white.
- Wirelessly connects to wiring centres and boiler.
- Can also be controlled remotely from your smartphone.
- With 2 channels to control both heating and hot water.
- Self-learning for optimum comfort and efficiency.
- Inbuilt temperature and humidity sensor.
- Helpful holiday mode.

Specification

- 3500w / 230v.
- 5°C to 35°C.
- Unit dimensions 89 x 89mm.
- Unit depth 35mm.
- 2 year manufacturer's warranty.
- IP20.

Snug UH8-RF wireless wiring centre

The UH8-RF is our eight-zone wireless wiring centre and it's designed to work with our Neo Air thermostats, giving installers a totally wireless solution. As you might expect, it allows you to control eight zones, as well as providing an outlet for a hot water cylinder. It gives you a 230v output, on demand, from any zone, so you can switch on the relevant actuators, underfloor heating pumps and valves. You can also connect to almost any boiler, volt free, sending a signal via RF to the RF switch. As the UH8-RF provides central switching, the best place to put it is next to the underfloor heating manifold.

Specification

- 230v 8-zone wiring centre.
- Snappable gates for easy access.
- Connects wirelessly to the boiler with our RF switch.
- Multiple connection terminals for the actuators.

Frequently asked questions

Is my property suitable for water underfloor heating?

Yes! All new UK properties are suitable for water underfloor heating, as they meet strict guidelines on insulation and airtightness. If you've got an older property, our retrofit solutions mean you can have high heat output underfloor heating too.

Can you use water underfloor heating on upper floors?

Yes. Our suspended heat plates allow hot water pipes to sit between the joists, so you can fit water underfloor heating on upper floors too.

Where should I install my manifold?

Your manifold should be fitted centrally to avoid unnecessarily long pipe runs. Long pipe runs mean more pipe is required for the job, and can result in feeder pipes causing interference with thermostats. Normally a water underfloor heating manifold would be fitted under the stairs or in a cupboard, unless a utility room or garage was central enough.

Do I need a special boiler?

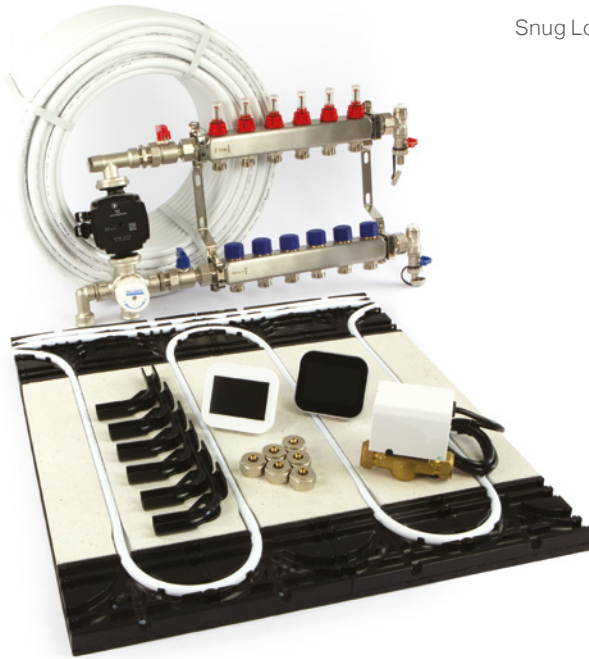
No, underfloor heating works with gas, oil and LPG boilers, as well as heat pumps.

What happens if there's a fault or leak?

There are no joints in the underfloor heating pipes laid into the floor and the pipes we supply are designed to have a lifespan of over 50 years. So, unless the floor is badly damaged, it is extremely unlikely that there will ever be a leak. However, should you experience a leak, puncture repair kits are available.

Snug packs

Image shown:
Snug Low-profile pack



Staple packs

PACK SIZE	PROGRAMMABLE	TOUCHSCREEN	SNUG STAT (WIFI)	WIRELESS		PROGRAMMABLE	TOUCHSCREEN	SNUG STAT (WIFI)	WIRELESS	
				NEO AIR					NEO AIR	
15m ²	SPP-ST15-P	SPP-ST15-T	SPP-ST15-W	SPP-ST15-RF		SPA-ST15-P	SPA-ST15-T	SPA-ST15-W		SPA-ST15-RF
20m ²	SPP-ST20-P	SPP-ST20-T	SPP-ST20-W	SPP-ST20-RF		SPA-ST20-P	SPA-ST20-T	SPA-ST20-W		SPA-ST20-RF
30m ²	SPP-ST30-P	SPP-ST30-T	SPP-ST30-W	SPP-ST30-RF		SPA-ST30-P	SPA-ST30-T	SPA-ST30-W		SPA-ST30-RF
35m ²	SPP-ST35-P	SPP-ST35-T	SPP-ST35-W	SPP-ST35-RF		SPA-ST35-P	SPA-ST35-T	SPA-ST35-W		SPA-ST35-RF
40m ²	SPP-ST40-P	SPP-ST40-T	SPP-ST40-W	SPP-ST40-RF		SPA-ST40-P	SPA-ST40-T	SPA-ST40-W		SPA-ST40-RF
45m ²	SPP-ST45-P	SPP-ST45-T	SPP-ST45-W	SPP-ST45-RF		SPA-ST45-P	SPA-ST45-T	SPA-ST45-W		SPA-ST45-RF
50m ²	SPP-ST50-P	SPP-ST50-T	SPP-ST50-W	SPP-ST50-RF		SPA-ST50-P	SPA-ST50-T	SPA-ST50-W		SPA-ST50-RF
55m ²	SPP-ST55-P	SPP-ST55-T	SPP-ST55-W	SPP-ST55-RF		SPA-ST55-P	SPA-ST55-T	SPA-ST55-W		SPA-ST55-RF
60m ²	SPP-ST60-P	SPP-ST60-T	SPP-ST60-W	SPP-ST60-RF		SPA-ST60-P	SPA-ST60-T	SPA-ST60-W		SPA-ST60-RF
65m ²	SPP-ST65-P	SPP-ST65-T	SPP-ST65-W	SPP-ST65-RF		SPA-ST65-P	SPA-ST65-T	SPA-ST65-W		SPA-ST65-RF
70m ²	SPP-ST70-P	SPP-ST70-T	SPP-ST70-W	SPP-ST70-RF		SPA-ST70-P	SPA-ST70-T	SPA-ST70-W		SPA-ST70-RF
75m ²	SPP-ST75-P	SPP-ST75-T	SPP-ST75-W	SPP-ST75-RF		SPA-ST75-P	SPA-ST75-T	SPA-ST75-W		SPA-ST75-RF
80m ²	SPP-ST80-P	SPP-ST80-T	SPP-ST80-W	SPP-ST80-RF		SPA-ST80-P	SPA-ST80-T	SPA-ST80-W		SPA-ST80-RF
90m ²	SPP-ST90-P	SPP-ST90-T	SPP-ST90-W	SPP-ST90-RF		SPA-ST90-P	SPA-ST90-T	SPA-ST90-W		SPA-ST90-RF
100m ²	SPP-ST100-P	SPP-ST100-T	SPP-ST100-W	SPP-ST100-RF		SPA-ST100-P	SPA-ST100-T	SPA-ST100-W		SPA-ST100-RF
120m ²	SPP-ST120-P	SPP-ST120-T	SPP-ST120-W	SPP-ST120-RF		SPA-ST120-P	SPA-ST120-T	SPA-ST120-W		SPA-ST120-RF

Clip rail packs

PACK SIZE	PROGRAMMABLE	TOUCHSCREEN	SNUG STAT (WIFI)	WIRELESS				
				NEO AIR	PROGRAMMABLE	TOUCHSCREEN	SNUG STAT (WIFI)	NEO AIR
15m ²	SPP-CR15-P	SPP-CR15-T	SPP-CR15-W	SPP-CR15-RF	SPA-CR15-P	SPA-CR15-T	SPA-CR15-W	SPA-CR15-RF
20m ²	SPP-CR20-P	SPP-CR20-T	SPP-CR20-W	SPP-CR20-RF	SPA-CR20-P	SPA-CR20-T	SPA-CR20-W	SPA-CR20-RF
30m ²	SPP-CR30-P	SPP-CR30-T	SPP-CR30-W	SPP-CR30-RF	SPA-CR30-P	SPA-CR30-T	SPA-CR30-W	SPA-CR30-RF
35m ²	SPP-CR35-P	SPP-CR35-T	SPP-CR35-W	SPP-CR35-RF	SPA-CR35-P	SPA-CR35-T	SPA-CR35-W	SPA-CR35-RF
40m ²	SPP-CR40-P	SPP-CR40-T	SPP-CR40-W	SPP-CR40-RF	SPA-CR40-P	SPA-CR40-T	SPA-CR40-W	SPA-CR40-RF
45m ²	SPP-CR45-P	SPP-CR45-T	SPP-CR45-W	SPP-CR45-RF	SPA-CR45-P	SPA-CR45-T	SPA-CR45-W	SPA-CR45-RF
50m ²	SPP-CR50-P	SPP-CR50-T	SPP-CR50-W	SPP-CR50-RF	SPA-CR50-P	SPA-CR50-T	SPA-CR50-W	SPA-CR50-RF
55m ²	SPP-CR55-P	SPP-CR55-T	SPP-CR55-W	SPP-CR55-RF	SPA-CR55-P	SPA-CR55-T	SPA-CR55-W	SPA-CR55-RF
60m ²	SPP-CR60-P	SPP-CR60-T	SPP-CR60-W	SPP-CR60-RF	SPA-CR60-P	SPA-CR60-T	SPA-CR60-W	SPA-CR60-RF
65m ²	SPP-CR65-P	SPP-CR65-T	SPP-CR65-W	SPP-CR65-RF	SPA-CR65-P	SPA-CR65-T	SPA-CR65-W	SPA-CR65-RF
70m ²	SPP-CR70-P	SPP-CR70-T	SPP-CR70-W	SPP-CR70-RF	SPA-CR70-P	SPA-CR70-T	SPA-CR70-W	SPA-CR70-RF
75m ²	SPP-CR75-P	SPP-CR75-T	SPP-CR75-W	SPP-CR75-RF	SPA-CR75-P	SPA-CR75-T	SPA-CR75-W	SPA-CR75-RF
80m ²	SPP-CR80-P	SPP-CR80-T	SPP-CR80-W	SPP-CR80-RF	SPA-CR80-P	SPA-CR80-T	SPA-CR80-W	SPA-CR80-RF
90m ²	SPP-CR90-P	SPP-CR90-T	SPP-CR90-W	SPP-CR90-RF	SPA-CR90-P	SPA-CR90-T	SPA-CR90-W	SPA-CR90-RF
100m ²	SPP-CR100-P	SPP-CR100-T	SPP-CR100-W	SPP-CR100-RF	SPA-CR100-P	SPA-CR100-T	SPA-CR100-W	SPA-CR100-RF
120m ²	SPP-CR120-P	SPP-CR120-T	SPP-CR120-W	SPP-CR120-RF	SPA-CR120-P	SPA-CR120-T	SPA-CR120-W	SPA-CR120-RF

Castellation mats packs

PACK SIZE	PROGRAMMABLE	TOUCHSCREEN	SNUG STAT (WIFI)	WIRELESS				
				NEO AIR	PROGRAMMABLE	TOUCHSCREEN	SNUG STAT (WIFI)	NEO AIR
15m ²	SPP-CM15-P	SPP-CM15-T	SPP-CM15-W	SPP-CM15-RF	SPA-CM15-P	SPA-CM15-T	SPA-CM15-W	SPA-CM15-RF
20m ²	SPP-CM20-P	SPP-CM20-T	SPP-CM20-W	SPP-CM20-RF	SPA-CM20-P	SPA-CM20-T	SPA-CM20-W	SPA-CM20-RF
30m ²	SPP-CM30-P	SPP-CM30-T	SPP-CM30-W	SPP-CM30-RF	SPA-CM30-P	SPA-CM30-T	SPA-CM30-W	SPA-CM30-RF
35m ²	SPP-CM35-P	SPP-CM35-T	SPP-CM35-W	SPP-CM35-RF	SPA-CM35-P	SPA-CM35-T	SPA-CM35-W	SPA-CM35-RF
40m ²	SPP-CM40-P	SPP-CM40-T	SPP-CM40-W	SPP-CM40-RF	SPA-CM40-P	SPA-CM40-T	SPA-CM40-W	SPA-CM40-RF
45m ²	SPP-CM45-P	SPP-CM45-T	SPP-CM45-W	SPP-CM45-RF	SPA-CM45-P	SPA-CM45-T	SPA-CM45-W	SPA-CM45-RF
50m ²	SPP-CM50-P	SPP-CM50-T	SPP-CM50-W	SPP-CM50-RF	SPA-CM50-P	SPA-CM50-T	SPA-CM50-W	SPA-CM50-RF
55m ²	SPP-CM55-P	SPP-CM55-T	SPP-CM55-W	SPP-CM55-RF	SPA-CM55-P	SPA-CM55-T	SPA-CM55-W	SPA-CM55-RF
60m ²	SPP-CM60-P	SPP-CM60-T	SPP-CM60-W	SPP-CM60-RF	SPA-CM60-P	SPA-CM60-T	SPA-CM60-W	SPA-CM60-RF
65m ²	SPP-CM65-P	SPP-CM65-T	SPP-CM65-W	SPP-CM65-RF	SPA-CM65-P	SPA-CM65-T	SPA-CM65-W	SPA-CM65-RF
70m ²	SPP-CM70-P	SPP-CM70-T	SPP-CM70-W	SPP-CM70-RF	SPA-CM70-P	SPA-CM70-T	SPA-CM70-W	SPA-CM70-RF
75m ²	SPP-CM75-P	SPP-CM75-T	SPP-CM75-W	SPP-CM75-RF	SPA-CM75-P	SPA-CM75-T	SPA-CM75-W	SPA-CM75-RF
80m ²	SPP-CM80-P	SPP-CM80-T	SPP-CM80-W	SPP-CM80-RF	SPA-CM80-P	SPA-CM80-T	SPA-CM80-W	SPA-CM80-RF
90m ²	SPP-CM90-P	SPP-CM90-T	SPP-CM90-W	SPP-CM90-RF	SPA-CM90-P	SPA-CM90-T	SPA-CM90-W	SPA-CM90-RF
100m ²	SPP-CM100-P	SPP-CM100-T	SPP-CM100-W	SPP-CM100-RF	SPA-CM100-P	SPA-CM100-T	SPA-CM100-W	SPA-CM100-RF
120m ²	SPP-CM120-P	SPP-CM120-T	SPP-CM120-W	SPP-CM120-RF	SPA-CM120-P	SPA-CM120-T	SPA-CM120-W	SPA-CM120-RF

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Snug packs *Cont.*

Suspended packs

PACK SIZE	PROGRAMMABLE	TOUCHSCREEN	SNUG STAT (WIFI)	WIRELESS				
				NEO AIR	PROGRAMMABLE	TOUCHSCREEN	SNUG STAT (WIFI)	WIRELESS
15m ²	SPP-SP15-P	SPP-SP15-T	SPP-SP15-W	SPP-SP15-RF	SPA-SP15-P	SPA-SP15-T	SPA-SP15-W	SPA-SP15-RF
20m ²	SPP-SP20-P	SPP-SP20-T	SPP-SP20-W	SPP-SP20-RF	SPA-SP20-P	SPA-SP20-T	SPA-SP20-W	SPA-SP20-RF
30m ²	SPP-SP30-P	SPP-SP30-T	SPP-SP30-W	SPP-SP30-RF	SPA-SP30-P	SPA-SP30-T	SPA-SP30-W	SPA-SP30-RF
35m ²	SPP-SP35-P	SPP-SP35-T	SPP-SP35-W	SPP-SP35-RF	SPA-SP35-P	SPA-SP35-T	SPA-SP35-W	SPA-SP35-RF
40m ²	SPP-SP40-P	SPP-SP40-T	SPP-SP40-W	SPP-SP40-RF	SPA-SP40-P	SPA-SP40-T	SPA-SP40-W	SPA-SP40-RF
45m ²	SPP-SP45-P	SPP-SP45-T	SPP-SP45-W	SPP-SP45-RF	SPA-SP45-P	SPA-SP45-T	SPA-SP45-W	SPA-SP45-RF
50m ²	SPP-SP50-P	SPP-SP50-T	SPP-SP50-W	SPP-SP50-RF	SPA-SP50-P	SPA-SP50-T	SPA-SP50-W	SPA-SP50-RF
55m ²	SPP-SP55-P	SPP-SP55-T	SPP-SP55-W	SPP-SP55-RF	SPA-SP55-P	SPA-SP55-T	SPA-SP55-W	SPA-SP55-RF
60m ²	SPP-SP60-P	SPP-SP60-T	SPP-SP60-W	SPP-SP60-RF	SPA-SP60-P	SPA-SP60-T	SPA-SP60-W	SPA-SP60-RF
65m ²	SPP-SP65-P	SPP-SP65-T	SPP-SP65-W	SPP-SP65-RF	SPA-SP65-P	SPA-SP65-T	SPA-SP65-W	SPA-SP65-RF
70m ²	SPP-SP70-P	SPP-SP70-T	SPP-SP70-W	SPP-SP70-RF	SPA-SP70-P	SPA-SP70-T	SPA-SP70-W	SPA-SP70-RF
75m ²	SPP-SP75-P	SPP-SP75-T	SPP-SP75-W	SPP-SP75-RF	SPA-SP75-P	SPA-SP75-T	SPA-SP75-W	SPA-SP75-RF
80m ²	SPP-SP80-P	SPP-SP80-T	SPP-SP80-W	SPP-SP80-RF	SPA-SP80-P	SPA-SP80-T	SPA-SP80-W	SPA-SP80-RF
90m ²	SPP-SP90-P	SPP-SP90-T	SPP-SP90-W	SPP-SP90-RF	SPA-SP90-P	SPA-SP90-T	SPA-SP90-W	SPA-SP90-RF
100m ²	SPP-SP100-P	SPP-SP100-T	SPP-SP100-W	SPP-SP100-RF	SPA-SP100-P	SPA-SP100-T	SPA-SP100-W	SPA-SP100-RF
120m ²	SPP-SP120-P	SPP-SP120-T	SPP-SP120-W	SPP-SP120-RF	SPA-SP120-P	SPA-SP120-T	SPA-SP120-W	SPA-SP120-RF

Low-profile packs

PACK SIZE	PROGRAMMABLE	TOUCHSCREEN	SNUG STAT (WIFI)	WIRELESS	
				NEO AIR	
12m ²	SPP-LP12-P	SPP-LP12-T	SPP-LP12-W	SPP-LP12-RF	
18m ²	SPP-LP18-P	SPP-LP18-T	SPP-LP18-W	SPP-LP18-RF	
24m ²	SPP-LP24-P	SPP-LP24-T	SPP-LP24-W	SPP-LP24-RF	
30m ²	SPP-LP30-P	SPP-LP30-T	SPP-LP30-W	SPP-LP30-RF	
36m ²	SPP-LP36-P	SPP-LP36-T	SPP-LP36-W	SPP-LP36-RF	
42m ²	SPP-LP42-P	SPP-LP42-T	SPP-LP42-W	SPP-LP42-RF	
48m ²	SPP-LP48-P	SPP-LP48-T	SPP-LP48-W	SPP-LP48-RF	
54m ²	SPP-LP54-P	SPP-LP54-T	SPP-LP54-W	SPP-LP54-RF	
60m ²	SPP-LP60-P	SPP-LP60-T	SPP-LP60-W	SPP-LP60-RF	
66m ²	SPP-LP66-P	SPP-LP66-T	SPP-LP66-W	SPP-LP66-RF	
72m ²	SPP-LP72-P	SPP-LP72-T	SPP-LP72-W	SPP-LP72-RF	
78m ²	SPP-LP78-P	SPP-LP78-T	SPP-LP78-W	SPP-LP78-RF	
84m ²	SPP-LP84-P	SPP-LP84-T	SPP-LP84-W	SPP-LP84-RF	
90m ²	SPP-LP90-P	SPP-LP90-T	SPP-LP90-W	SPP-LP90-RF	
96m ²	SPP-LP96-P	SPP-LP96-T	SPP-LP96-W	SPP-LP96-RF	

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Your quotation checklist

At Snug, we're here to help you get a great job done, fast. So, we'll always get back to you with a full quotation within 24 hours of you sending us your project details. We've put together this quick checklist to show you what information we'll need from you.

You'll need to send us:

- A floor plan, if you have one. A full architect's PDF is really helpful, but a sketch with all of your room dimensions is enough. If you don't have either, room areas will be fine.
- Initial thoughts on the system you need. Don't worry if you're not sure yet – we can talk it through and help you decide.
- Information on the property's heat source. For example, is it a boiler or a heat pump?
- The approximate age of the property.
- Your contact details.

You can email this information to sales@firsttrace.co.uk or, if you prefer, you can call our team on 01772 761 333.

Once we've sent over your quote, please check it through carefully to make sure it covers everything you need. The list below shows the items we always include in our quotes. Please check they're in yours and, if you're comparing quotes from other companies, check they all include the same parts.

What's included in your quote:

- Manifold.
- Combined pump and mixer / single-room mixer.
- Fittings.
- 2-port zone valve.
- Pipe leading bends.
- Pipes.
- Thermostats.
- Wiring centre (if you're having multiple thermostats).
- Recommended fixing method.

What each fixing method includes:

- Staples: staples or clips, plus edging strips.
- Clip rail: clip rails, staples or clips, and edging strips.
- Castellated mats: castellated mats, plus edging strips.
- Suspended heat plates: Snug plates 200 or 133.
- Fit-from-below plates: fit-from-below plates.
- Low-profile groove boards: groove boards, large Snug Support low-profile ends, small Snug Support low-profile ends, glue and (sometimes) self-levelling compound.

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