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Tried systems that are innovative. Tested products designed for the future. Trusted by the UK construction industry.



**Comprehensive free
design service**



**Dedicated project
manager**



**Local experts that
come to you**



**Relationship managers
for trade customers**



**Specialist services
for developers &
large projects**

Product research and innovation is the basis on which our company has been built. With a commitment to continuous product development, we make sure that we are always at the forefront of our industry. We take great pride in delivering the highest-quality products, systems and customer care.

The range of patented products available from OMNIE has been designed, tested and manufactured in the UK for UK constructions. Our products are tested at BSRIA. They are manufactured in an environmentally responsible way, using British-made component materials wherever possible, and all work very effectively with sources of renewable energy and as part of our unique Whole House System.

We dedicate an experienced Project Manager to look after every aspect of a project, from initial enquiry through to completion and beyond.



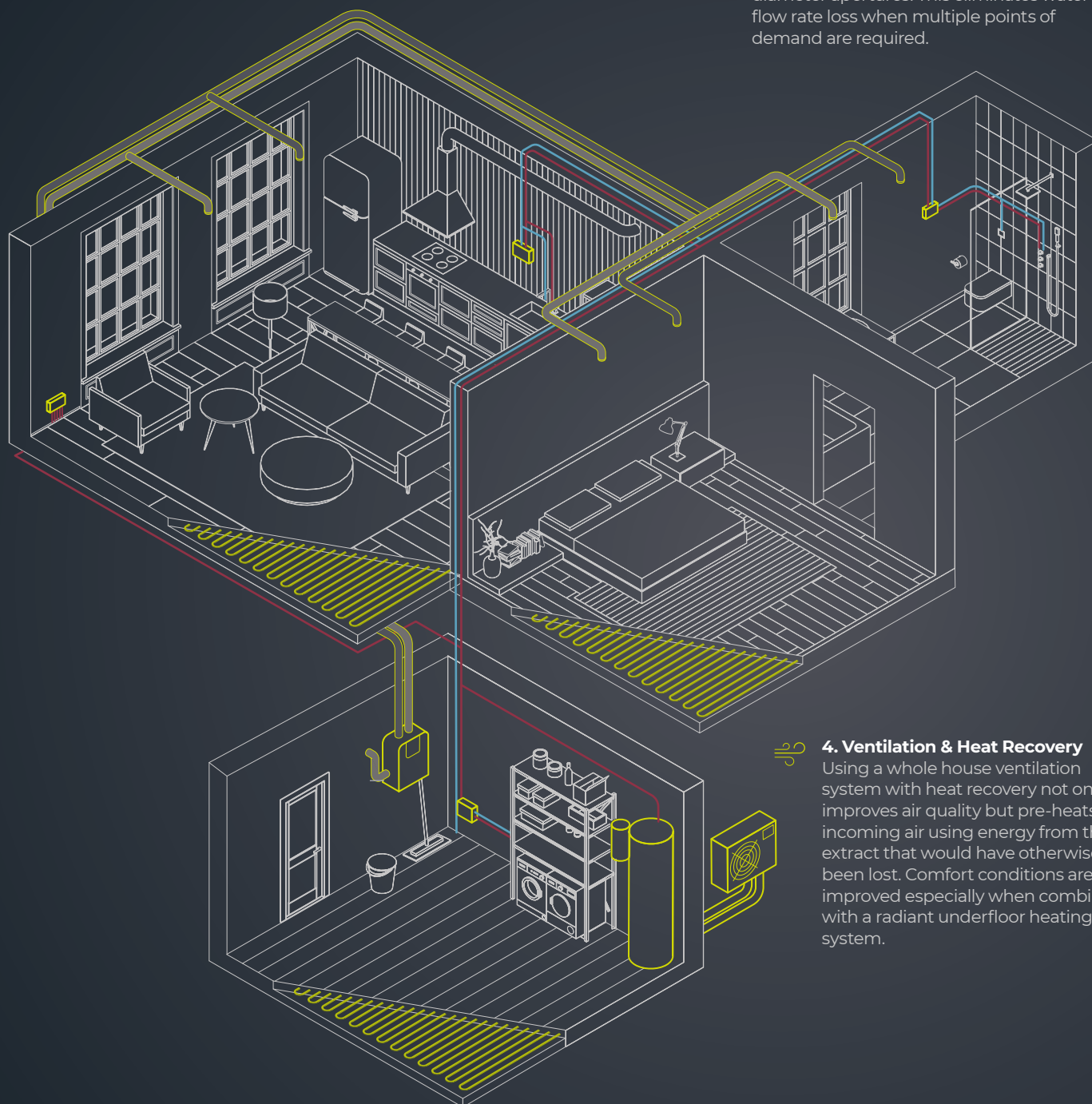
3. Controls

Fundamental to any efficient system are good controls. The OMNIE control system brings together the controls for the heating, domestic hot water and ventilation making the home's controls easier to install and simpler to use.



5. Hot & Cold Distribution

A risk-reducing and more effective method of distributing hot and cold water throughout the building. Using a manifold-based system, as opposed to branch system, will significantly reduce the number of fittings used, as well as offer a convenient and safe way to isolate supplies when needed. Optimisation of water flow is achieved by eliminating constricting pipe angles and narrow diameter apertures. This eliminates water-flow rate loss when multiple points of demand are required.



1. Underfloor Heating

The most efficient and effective way to control the temperature of an indoor environment. Underfloor heating warms a room using radiant heat and this is more comfortable than heating a room by air alone, as you do with radiators. We get a similar feeling of comfort from the sun.



4. Ventilation & Heat Recovery

Using a whole house ventilation system with heat recovery not only improves air quality but pre-heats the incoming air using energy from the extract that would have otherwise been lost. Comfort conditions are improved especially when combined with a radiant underfloor heating system.



2. Heat Pumps

The perfect heat source for any building, heat pumps use less energy than gas boilers and are optimised for use with underfloor heating and other technologies where lower water temperatures are required.

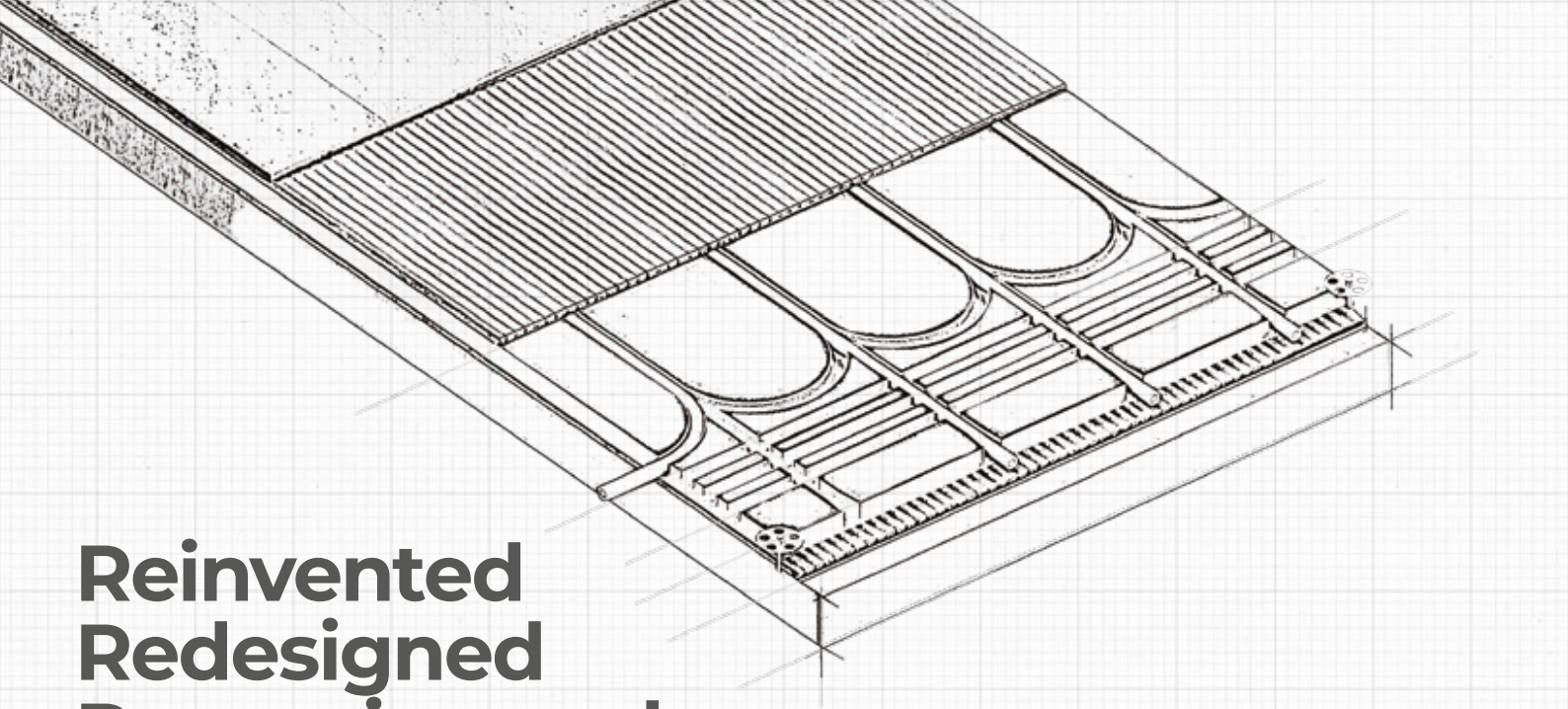
Whole house One environment

Our principal five technologies are designed to work together in perfect harmony, creating what we call the Whole House System. Our project team will meet your design requirements with either independent technologies, or combine them together to create the perfect indoor environment.

The Whole House System is a concept that is at the core of the OMNIE philosophy – ensuring that the complementary technologies we bring together work effectively to achieve lower costs, both environmental and financial, whilst giving the user the comfort they want when they want.

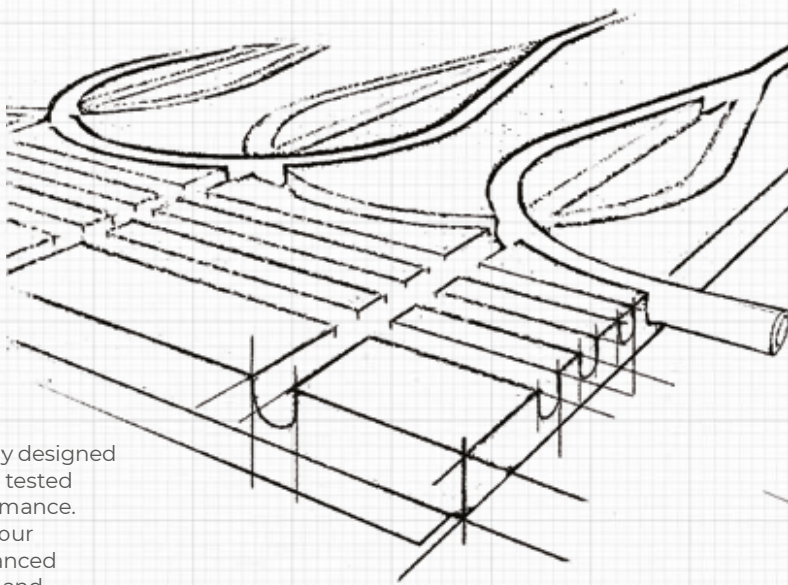
When used in the Whole House System, any particular technology does not stand alone but is affected and influenced by other devices used in the system. A holistic view of the system is needed to ensure that the benefits of using low-carbon technologies are realised.

These technologies must be easily controllable by the individual to suit the conditions. Too often controls are independent, complicated and unintuitive which creates inefficient indoor environment systems that are too hot, too cold or on for too long.



Reinvented Redesigned Re-engineered Again and again

This is the benefit of making and designing our own products. We can tinker, test and try. We get to know what works and what doesn't.



OMNIE is a pioneer in design and development of heating emitters where complex constructions, low water temperatures, high performance and ease of installation are paramount.

Decades of research and development by OMNIE has led to our most advanced and most efficient range of underfloor heating – designed to work in absolute harmony with our complementing technologies – ventilation, heat pumps and water distribution.

Our products are carefully designed by our engineers and are tested independently for performance. This is made possible by our in-house processes, advanced in-house manufacturing and detailed expert knowledge.

OMNIE products take the guesswork and mystery out of specifying a complete whole house system. All our technologies are easy to configure with known, independently tested heat outputs.

Over a decade of innovation and inventions

2008

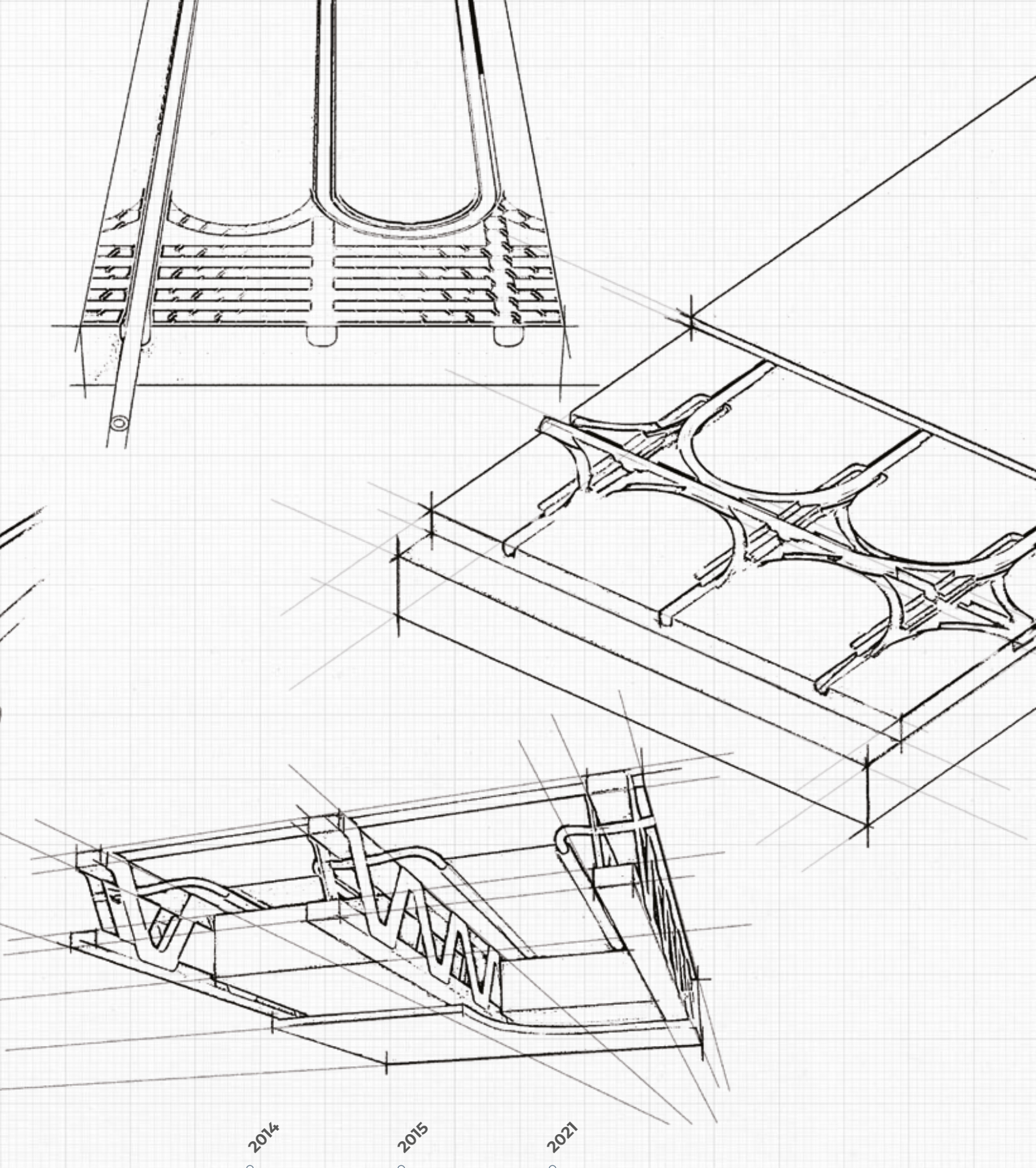
Toron system for suspended floors is launched, the first routed chipboard UFH panel for timber constructions.

2012

TorFloor® is launched incorporating a new multidirectional channel pattern and pre-bonded foiled emitters.

2013

Acoustic underfloor heating panels are launched, combining sound-reducing layers into UFH panels.



2014

Total Indoor Environment is born, with systems such as heat pumps and UFH working together in complete harmony.

2015

Multidirectional pipe channel pattern is rolled out across the range, making installation decisively simple and flexible.

2021

AL HEX® super performance technology is incorporated into OMNIE products, further enhancing performance.

A close-up, slightly low-angle shot of a woman with brown hair tied back, wearing clear safety glasses with black frames. She is looking down and to the left with a focused expression. The background is blurred, showing what appears to be an industrial or laboratory setting with white equipment.

Officially efficient

Our products are independently tested by industry experts. It's official. We're top of the tables for heating performance and warm-up times.

OMNIE has independently tested all of our products at BSRIA (Building Services Research and Information Association) so that our clients can be confident that an OMNIE system will perform as designed.

All of our designs are based on BS1264, the British Standard for underfloor heating. Our designs show where the pipe is to be installed in the floor and are issued for approval before we despatch the materials for the project.

There are several factors that are important in a good underfloor heating design. The system must provide enough heat to keep the rooms warm, as well as responding quickly to changes in the home owner's requirements.

Heat Source	Water temperature	Annual energy consumption	Cost to run
OMNIE TorFloor®	41°C	3329 kWh	£466
OMNIE FoilBoard®	46°C	3789 kWh	£530
Competitor Rigid Aluminium heat diffusers	49°C	4115 kWh	£576
Competitor Air-Gap UFH	55°C	4733 kWh	£662
Oversized radiators	55°C	4733 kWh	£662

*Illustration purposes only – based on 14p per unit.

Independent tests at BSRIA showed that systems that have an air gap between the pipe and floor deck are less efficient at transferring energy than OMNIE systems. This means they have to use significantly warmer water to produce the same heat output.

The water temperature stated above is of that needed to provide the same heat output from each system. Consumption is based on a new-build four-bedroom 200m² property using a ground source heat pump and heating system as shown.

81

SAP RATING



77

SAP RATING



*These calculations are based on a new-build 100m² timber frame house using a ground source heat pump.

Improve SAP ratings with an OMNIE underfloor heating system.

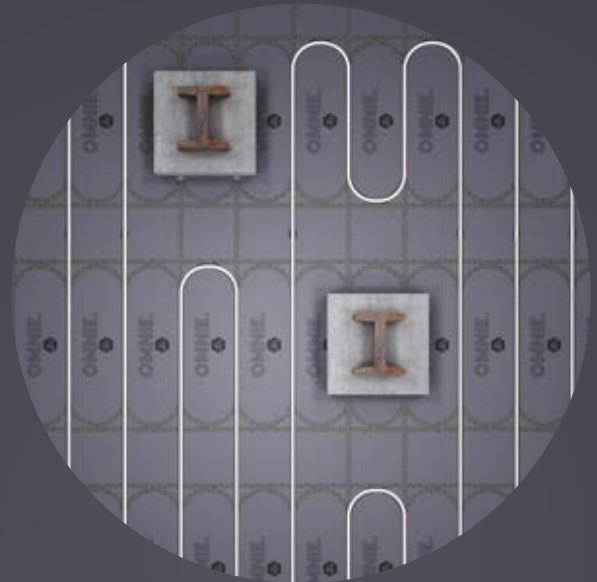
What is a SAP rating?

A SAP rating is a calculation to predict the energy performance for new dwellings. The SAP rating takes into account insulation levels and the types of renewable energy products used in the building. The higher the rating, the better the building's predicted energy performance.

OMNIE UFH and SAP

OMNIE Underfloor heating products for timber constructions, or 'dry constructions', have a faster warm-up and cool-down time than underfloor heating in screed floors. This reduces the possibility of overheating and improves efficiency. Also, when compared to radiators, underfloor heating is more efficient when used with a heat pump.

These factors combine so that using OMNIE dry construction underfloor heating systems, such as TorFloor®, over conventional radiators improves the energy efficiency of the building and increases the SAP rating.

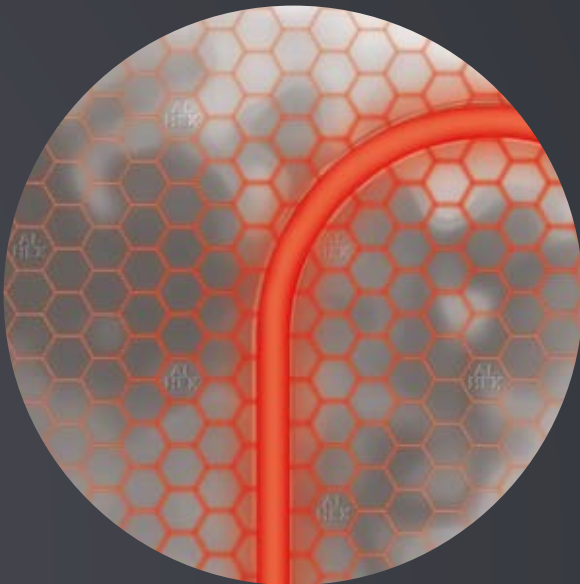


Patently easier

Over the decades we've patented industry-leading ideas that have made performance more efficient, installation easier and coverage better. Problem solved.

How do you create maximum coverage in awkward spaces?

Our unique pipe channel pattern is designed to help overcome awkward spaces, nibs, recesses and even built-in furniture without the need to consider 'loops' and 'straights' when installing the underfloor heating panels. Simply install the panels as you would a floor and use the pattern to navigate the pipe around the obstructions.



How do you ensure even and effective heat output?

Our foil-faced diffuser technology ensures an even and effective distribution of heat into the floor. This eliminates the problem of 'striping' where heat can only be felt where the pipe is. Our systems distribute the heat evenly, heating up the room faster and making the floor finish more comfortable.



How do you make installation quicker and easier?

Our timber panel products are designed to be installed just as you would a timber floor deck – the panels work together to create a seamless pipe channel pattern. Some of our products, such as TorFloor®, substitute the need for a floor deck – reducing costs and installation time.

**11 x Mount Everest
300 x Eiffel Tower
1,000 x Big Ben
250 x Empire State**



**100 x Burj Dubai
9 x Marianas Trench
98,500m² of product
Manufactured
in Britain
every year**

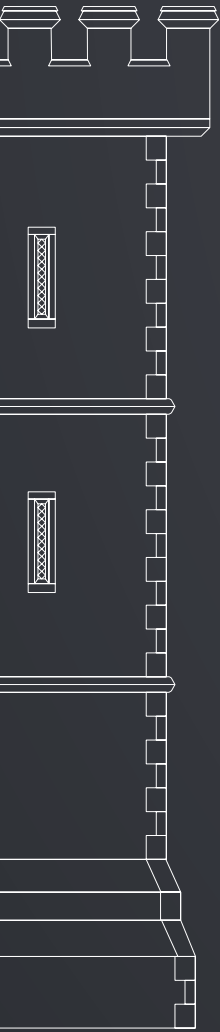


Our manufacturing centres in the UK and Europe are amongst the most advanced in the industry. Unlike our competitors we design, engineer and manufacture the products we sell.

Our factories work 24 hours a day, seven days a week with products for the UK market being made at our UK facility using British-made component materials.

All products are manufactured in an environmentally responsible way, with an overarching commitment to sustainability at the forefront of our manufacturing philosophy.

We take great pride in delivering the highest-quality products; each product we make is carefully designed to ensure long-lasting performance.



Castles



Churches



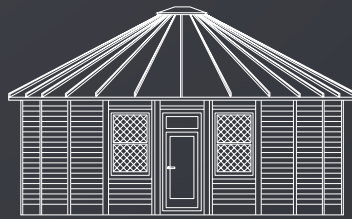
Low-Energy Buildings

The right system for every building

There's a reason why we have the most capable range of UFH. It's because the UK has one of the world's most diverse range of housing. So we've developed unique products for every type of UK floor construction. From castle to cottage, town house to terrace.



Period Properties



Yurts



New-Build Homes

We draw on years of experience to develop and manufacture systems that are easily installed into UK constructions, especially timber constructions such as suspended, batten or floating floors.

However, getting underfloor heating to work effectively in timber floors is not straightforward. Timber is not naturally a good conductor of heat. This means, for other brands of underfloor heating, using high-temperature water is the only way the system will be able to heat the room effectively, and as a result the efficiency of the heat pump or boiler will be reduced.

We are specialists in manufacturing UFH products for timber floors and have developed a range that works well at low water temperatures. Our systems are also designed to avoid squeaks and ticking and to maintain or improve the strength and acoustic qualities of the floor.

We always strive to meet individual customers' needs which is why when standard products don't dovetail with customers' requirements we're able to provide bespoke solutions.

We can design and manufacture products to suit the building construction, taking into consideration any acoustic details, loading requirements, services and floor fixtures.

Read our case-studies:
[OMNIE.co.uk/case_studies/](https://www.omnie.co.uk/case_studies/)

Many people want underfloor heating simply because it is the most comfortable form of heating, completely unobtrusive, safer and more hygienic.

But we go much further.

Our underfloor heating products have also been designed (and extensively tested) to absolutely minimise the amount of energy a building's heating system requires in order to provide effective heating, and to make it realistic for this energy to come from renewable sources either straight away or at some stage in the future life of the building.

Two crucial aspects to the design of our products make this possible.

The first is our products minimise the temperature of the heating system water required in order to provide effective heating. The lower this water temperature can be, the more efficiently a heat source can run and the more likely it is that water at this temperature can come from a truly renewable source.

With any heating system the larger the area of the emitter, the cooler the surface temperature needs to be to achieve the same heating effect. This is why underfloor heating runs at a much lower water temperature compared to radiator systems. The use of lower water temperatures better utilises the condensing mode in boilers and allows heat pumps to have a greater efficiency.

Studies have demonstrated that using underfloor heating rather than radiators with a ground source heat pump can make the heating system up to 30% more efficient.

Radiator heating systems and even some poorer forms of underfloor heating must be supplied with high-temperature (60–85°C) water. This makes such buildings more dependent on having a gas or oil boiler because a boiler is the most common and reliable way of producing water this hot.

All our underfloor heating products are effective using much cooler water (32–55°C) which not only enables a gas or oil boiler to run much more efficiently but also maximises utilisation of water heated by renewable energy.

The second is the speed with which our products respond to changes in heating power demand. High thermal mass, pipe-in-screed underfloor heating cannot respond quickly to demand-changes, and can waste energy as a result.

OMNIE products have been designed with low thermal mass and this enables them to respond very quickly and efficiently to changes in heating demand.

Lower water temperatures reduce operating costs, are kinder to the environment and enable the use of renewable heat sources.

So you can see how effective our products are at delivering these commitments, we have devised two simple measures:

- 1 The water temperature for a heat output at 50 W/m²**
- 2 The heat output at 50°C flow water temperature**

This information is shown under each product in this product guide.

Lower temperatures Lower emissions Lower costs

85

80

75

70

65

60

55

50

45

40

35

30



Radiator heating systems
and poorer forms of
underfloor heating work
between 55–85°C



OMNIE works
between 30–55°C

Experience on tap



Tried systems that are innovative.
Tested products designed for the future.
Trusted by the UK construction industry.

Performance Guaranteed

All our systems are tested for heat output and fast warm-up times. To make it easy for products to be compared, either against each other or against competitors – we have set out three simple tests:

1. The water temperature for a heat output at 50 W/m².
2. The heat output at 50°C flow water temperature.
3. Heat maps showing heat diffusion and heat output at 20-, 40-, 60- and 80-minute intervals vs. the nearest competitor product.

Technical Experts

Our team of technical experts are always on hand to help. Whether you need advice on the most suitable system for your project or require installation advice. Every project we undertake comes complete with a comprehensive handover pack including project plans, guides, manuals and commissioning details.

30 years' experience

We have decades of experience delivering the best underfloor heating, ventilation and heat pumps systems money can buy – our Whole House System philosophy underpins our commitment to continually improving the indoor living environment.

Award-Winning Products



Our TorFloor® underfloor heating system scored top marks amongst builders in *Professional Builder Magazine*. Known for its ease of installation, high heat output and fast warm-up times, the floor-in-one system now benefits from AL HEX® technology – further improving heat output and lowering the flow water temperature.

Free Design Service

We provide a comprehensive design service for every project we undertake. This means you can be absolutely assured that the system we specify will work as designed.

Dedicated Project Manager

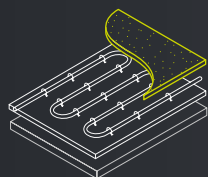
Every project benefits from a dedicated project manager. Your project manager will guide you through the design process and take care of your project requirements from order to delivery on site.

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Underfloor Heating Systems

Screed



ScreedPlate 0

Castellated plate system for use in screeded or concrete floors.

32



ScreedPlate 11

Castellated plate system with insulation layer for use in screeded or concrete floors.

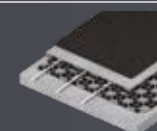
34



ScreedPlate Compact

Low build-up castellated plate system for use in screeded or concrete floors.

36



Staple

Staples for use in screeded or concrete floors that are pre-insulated.

38



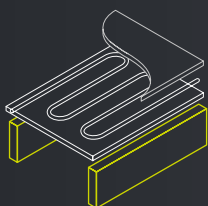
ClipRail

Similar to Staples for use in screeded or concrete floors that are pre-insulated.

40



Timber Suspended



FoilBoard®

Inter-joist insulated panels that sit between joists.

42



TorFloor®

Integrated floor deck and heating system for suspended floors.

44



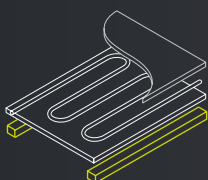
UnderPlate

Low-cost alternative for timber floors, not recommended for use with low water temperatures.

46



Timber Batten



FoilBatten

Insulated panels that sit between battens.

48



TorFloor®

Integrated floor deck and heating system for batten floors.

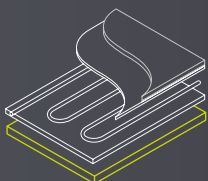
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Customer Information

Due to disruption to our raw materials supply chain caused by Covid-19, some products may appear differently than shown in this guide. Products may be withdrawn or the specification subject to change without notice. Please check with your project manager for further details or call us on 01392 36 36 05.

Floating



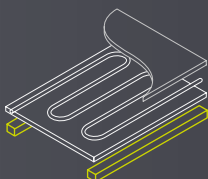
FoilFloat

Insulation panel that floats over an existing timber or concrete floor.

52



Low Build-up / Overlay



LowBoard®

Low build-up system that floats over existing insulated timber or concrete floor.

54



Ultimate 2 (pre-primed)

Easy-to-use low build-up insulated panel especially designed for tiled floor finishes.

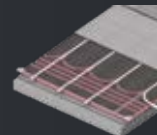
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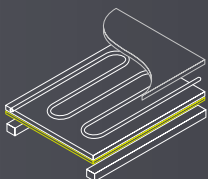
OMNIE-Tile

Cementitious board panel for use with tiled floor finishes.

58



Acoustic/Specialist



LowBoard® RdB

Low build-up panel with integrated acoustic layer.

60



TorFloor® RdB

Integrated floor deck and heating system for suspended floors with integrated acoustic layer.

62



FoilFloat RdB

Insulation panel that floats over an existing timber or concrete floor with integrated acoustic layer.

64



Underfloor that overperforms

Our products offer the fastest warm-up times and best heating performance on the market.

Warm-up

Underfloor heating systems can be designed to react very quickly to heating demands. The warm-up time of the system depends upon several factors:

Product

The time taken for the underfloor heating system to emit heat is dependent on the underfloor heating product and system. Underfloor heating with pipe embedded in a thick concrete slab will have a longer warm-up time than dry construction systems, such as TorFloor® or LowBoard® in suspended, batten or floating floors. This is recognised in SAP on ground floors with timber floor underfloor heating having a better overall SAP rating than concrete underfloor heating.

Heat loss

The room warm-up time is also dependent on the heat loss of the building. The underfloor heating system must be sized to overcome the heat losses of the building but also have additional capacity to ensure a good response time from cold.

Heat output

The underfloor heating output is based on a number of variables:

Floor finish

Floor finishes have different thermal resistances. Tiles, for example, are very conductive whilst a combination of carpet and underlay is less conductive. Also, the thicker the material, the lower the heat output will be.

Water temperature

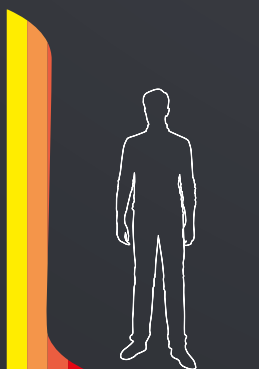
The higher the water temperature used in underfloor heating, the higher the heat output. However, a balance is needed as using low water temperatures reduces running costs.

The underfloor heating product and the construction

OMNIE products are designed to have a good conductive pathway from pipe to the floor surface. Some competitor products have an air gap which reduces the heat output.

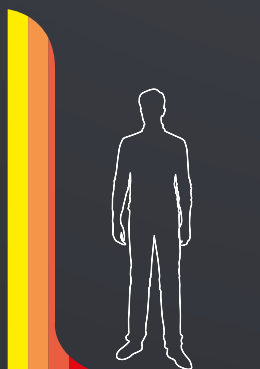


IDEAL COMFORT



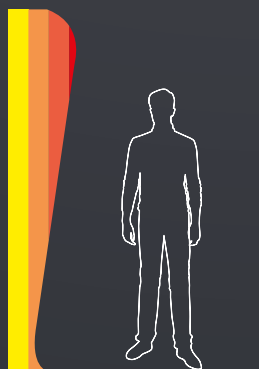
16° 22° 24°

UNDERFLOOR HEATING



16° 22° 24°

RADIATOR HEATING



16° 22° 24°

Underfloor heating is much closer to the ideal room comfort profile than radiator heating.

Precision routing for any route

Omni-directional channelling means you can easily and efficiently work your way around the most complex of arrangements.

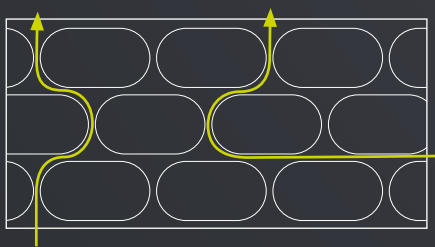
Our underfloor heating systems benefit from our unique pipe lay pattern and ball-routed channels helping you to lay our systems faster and easier than ever before.

Our technology has been perfected thanks to 30 years of experience in the underfloor heating industry, enabling our systems to be installed quicker and easier than ever before.

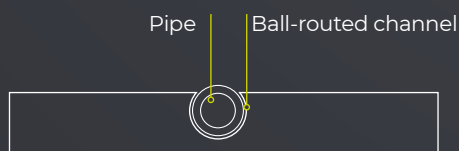
Our trusted omni-directional technology makes the most of our patented and completely unique pipe channel pattern. This pattern not only allows for panels to be laid in a similar method to flooring panels, but enables almost infinite flexibility as to where the pipe can be laid. This means you can easily work around complex unheated areas, room shapes and better manage flows and returns.

Combined with the pipe channel pattern, omni-directional technology has led to the development of the ball-routed pipe channel. This means that the pipe, when inserted into the channel, doesn't pop out, especially when laying around return loops or when working around complex shapes.

Omni-directional technology is available across our product range. You can find out more by contacting your local OMNIE representative for a hands-on demo, or alternatively visiting our website.



Omni-directional panel channelling



Ball-routed channels eliminate pipe pop out



Our thinnest board ever

Retrofit?
No problem.
Minimum build-up.
Minimum fuss.

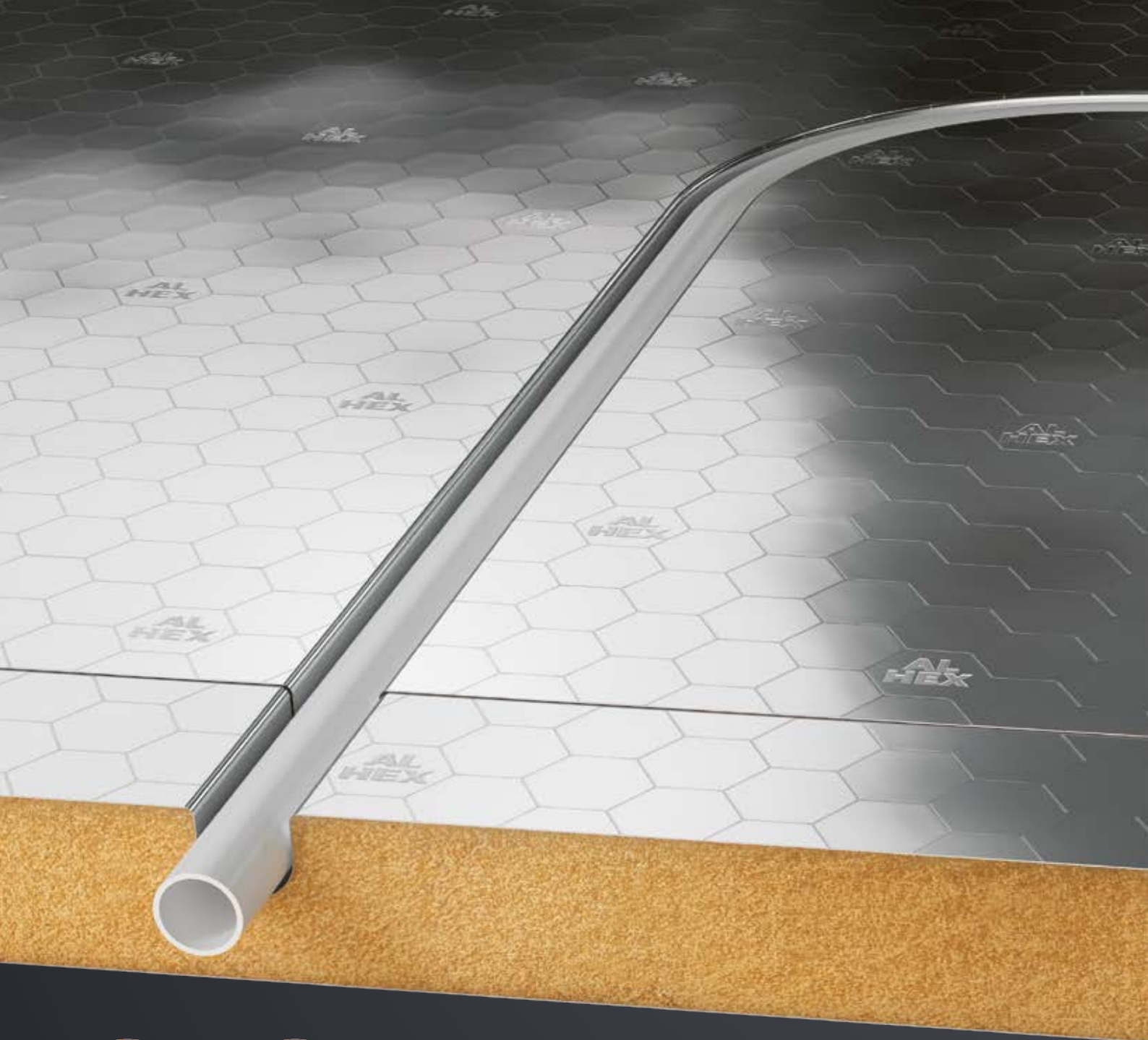
Our universally recognised LowBoard® system means very low build-up (from 15mm panel thickness) without any loss of performance. This technology also maintains the rigidity of the construction panel (where applicable) making sure that each panel is still easy to lay.

LowBoard® is ideal for retrofit projects or where it is impractical or expensive to lift or replace the existing floor deck. With such thin panels, LowBoard® can be installed in almost any existing building.



15mm





AL HEX®

The heat from the warm water pipe is effectively and evenly transferred across the panel with minimum energy loss.



Without AL HEX®

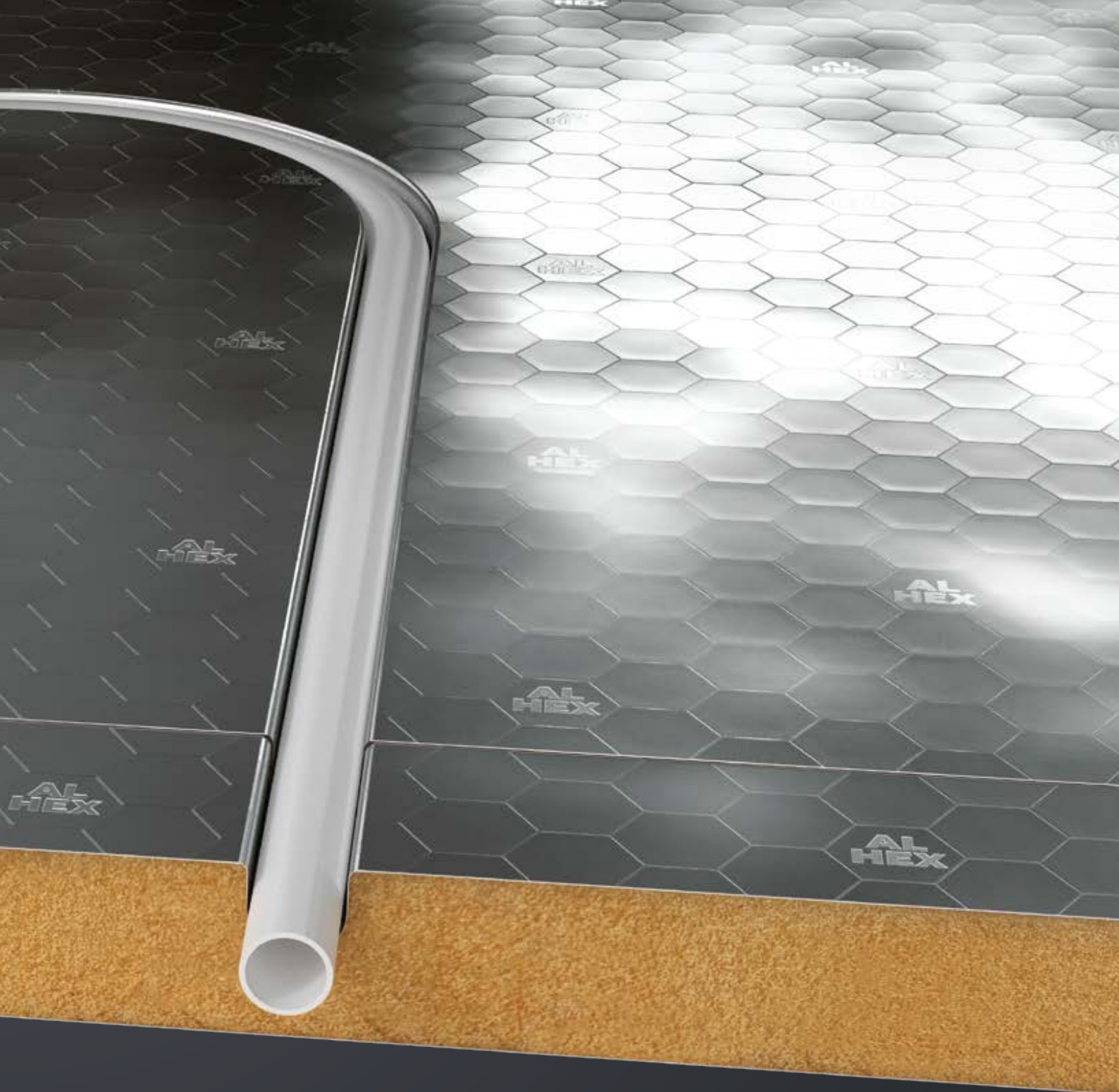
The heat transfer is not as effective, it is uneven and is warming the floor at different temperatures. The effect of this is known as 'striping' – where the heat stays where the pipe is laid as opposed to diffusing across the panel.

OMNIE systems benefit from the AL HEX® foil diffuser. This unique diffuser technology significantly improves the in-channel foiled surface area that is in contact with the warm water pipe. This means that the heat is more effectively transferred from the pipe into the foil, which in turn improves heat transfer into the floor.

The AL HEX® system eliminates the effects of 'striping' – where heat remains in the warm water pipe and doesn't diffuse out into the UFH panel effectively. Striping within the floor

means that hot spots and hot lines can be felt on the floor surface finish. Prolonged effects of striping can lead to damage in the floor finish as well as in the subfloor, especially if attempts to improve diffusion using high water temperatures are used.

The AL HEX® system is included as standard on all OMNIE products that incorporate a foil diffuser.



Patented foil technology

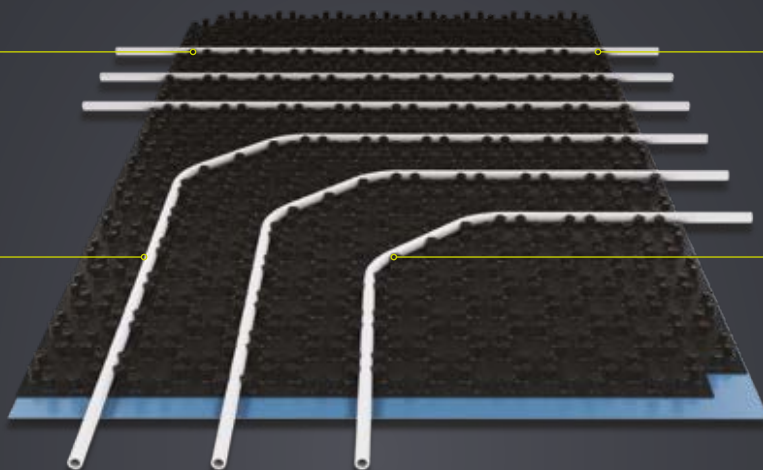
Spreads heat quicker and more efficiently, making sure of fast warm-up times and lower water temperatures.

Pipe held firm by
castellations without
staples or clips

Castellations
protect the pipe
from site traffic

Pipe is able to
turn 45° or 90°
easily between
the castellations

Pipe can be placed as
close as 50mm apart



Screed

ScreedPlate 0

The OMNIE ScreedPlate system has been purposely designed to avoid using fixings and staples in the floor, so can be laid over any subfloor, including acoustic insulation. ScreedPlates have castellations in the panel which grip the pipe. These are at set centres to provide a consistent guide for the spacing of the pipe as well as providing protection from site traffic.

The panel is designed to allow the pipe to easily change direction and also provide a simple method of installation where the pipe approaches the manifold.

Key features



Omni-directional
pipe channels



Interlocking sheets



Protects pipe from
site traffic

Screed

Pipe

ScreedPlate

Vapour control layer

Concrete subfloor



Heating performance

88 W/m^2 38 $^{\circ}\text{C}$

Heat output in W/m^2
at flow water
temperature at 50 $^{\circ}\text{C}$

Flow water
temperature for a heat
output of 50 W/m^2

Specifications

Panel thickness:
20mm to top of castellation

Weight:
1.1 kg/m^2 + Screed

Suitable for:
Screeded floors

Pipe centres:
150mm/200mm using 16.5mm pipe

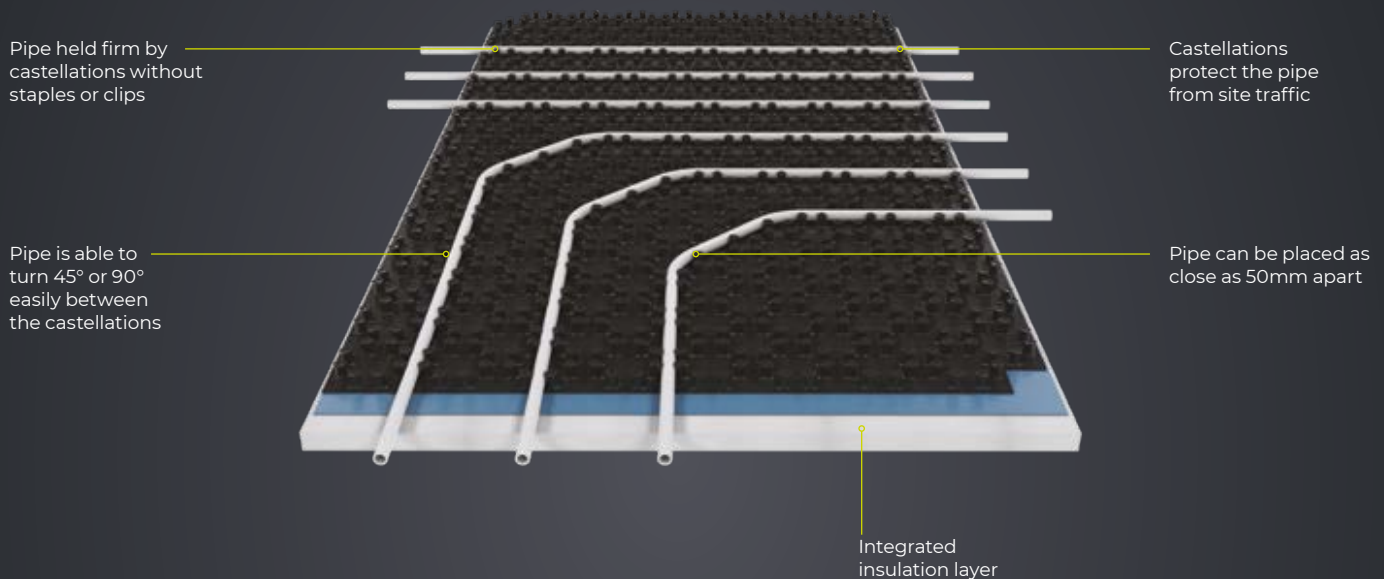
Dimensions:
1450 x 850mm



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datasheets and
install guides.



UFH 12 Datasheet
IG 12 Install guide





Screed

ScreedPlate 11

The OMNIE ScreedPlate system has been purposely designed to avoid using fixings and staples in the floor so can be laid over any subfloor, including acoustic insulation. ScreedPlates have castellations in the panel which grip the pipe. These are at set centres to provide a consistent guide for the spacing of the pipe as well as providing protection from site traffic.

The panel is designed to allow the pipe to easily change direction and also provide a simple method of installation where the pipe approaches the manifold. This product includes 10mm insulation for very low build-up systems.

Key features

-  Omni-directional pipe channels
-  Cost-effective solution

Screed

Pipe

ScreedPlate

Vapour control layer

Insulation

Concrete subfloor



Heating performance

88 W/m^2 38 $^{\circ}\text{C}$

Heat output in W/m^2
at flow water
temperature at 50 $^{\circ}\text{C}$

Flow water
temperature for a heat
output of 50 W/m^2

Specifications

Panel thickness:
30mm

Weight:
1.1 kg/m^2 + Screed

Suitable for:
Screeded floors

Pipe centres:
150mm/ 200mm using 16.5mm pipe

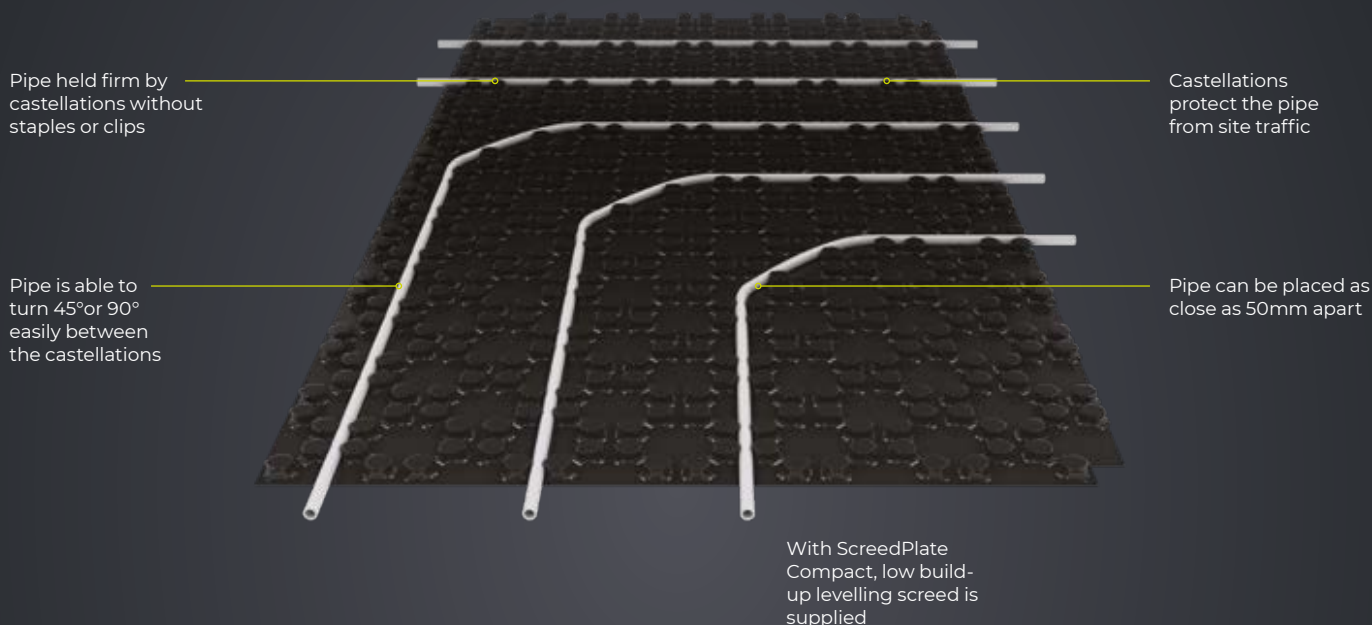
Dimensions:
1450 x 850mm



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UFH 13 Datasheet
IG 13 Install guide



Screed

ScreedPlate Compact

The OMNIE ScreedPlate system has been purposely designed to avoid using fixings and staples in the floor so can be laid over any subfloor, including acoustic insulation. ScreedPlates have castellations in the panel which grip the pipe. These are at set centres to provide a consistent guide for the spacing of the pipe as well as providing protection from site traffic.

The panel is designed to allow the pipe to easily change direction and also provide a simple method of installation where the pipe approaches the manifold. This system is available with a 10mm integrated insulation, no insulation or an adhesive layer for very low build-up systems.

Key features



Omni-directional pipe channels



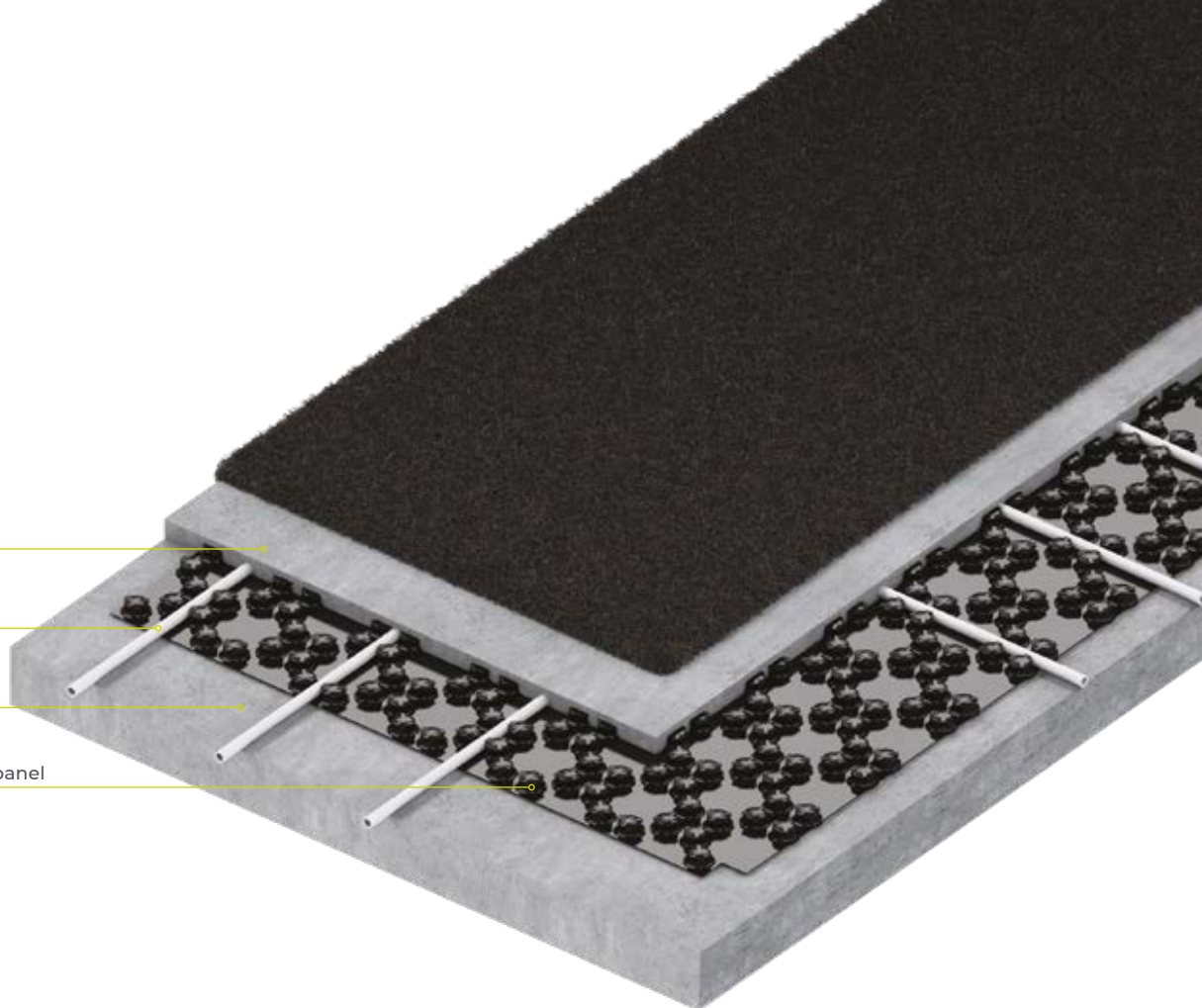
Cost-effective solution

Specialist screed

12mm PE-RT pipe

Structural subfloor

ScreedPlate compact panel



Heating performance

88 W/m^2 38 $^{\circ}\text{C}$

Heat output in W/m^2
at flow water
temperature at 50°C

Flow water
temperature for a heat
output of 50 W/m^2



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install guides.

Specifications

Panel thickness:

14mm

Weight:

30kg/m^2 including 20mm RS Level

Suitable for:

Low build-up applications over
solid floor & timber deck.

Pipe centres:

150mm using 12mm pipe

Dimensions:

1125 x 625mm



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effective cooling performance



UFH 14 Datasheet
IG 14 Install guide

Flexible pipe can be installed at 100mm to 300mm spacing

Screed is poured over which provides good heat conduction



A staple-gun can be used to make installation easier and faster

Staples fix pipe securely to the insulation (not supplied)

Screed

Staple

The OMNIE staple system provides a quick, flexible and simple method of installing underfloor heating in a screeded floor. The pipe is easily held using staples. The staples have a barbed end which fixes into the insulation.

To speed up the process further, a pipe stapler is available making installation easier and faster. A polythene sheet/membrane may be required over the insulation prior to stapling the pipe. Please seek advice from insulation and screed suppliers. Shorter 40mm staples are also available for fixing to thin insulation.

Upgrade?

Consider ScreedPlate as an alternative product for screed floors. The castellated plate provides protection for the pipe as well as removing the need to mark out the pipe spacings.

Key features



Cost-effective solution

Screed

Staple

16.5mm PE-RT pipe

Vapour control layer

Insulation

Slab



Heating performance

88 W/m^2 38 $^{\circ}\text{C}$

Heat output in W/m^2
at flow water
temperature at 50 $^{\circ}\text{C}$

Flow water
temperature for a heat
output of 50 W/m^2



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install guides.

Specifications

Suitable for:
Screeded floors

Pipe centres:
100mm/150mm/200mm
using 16.5mm pipe



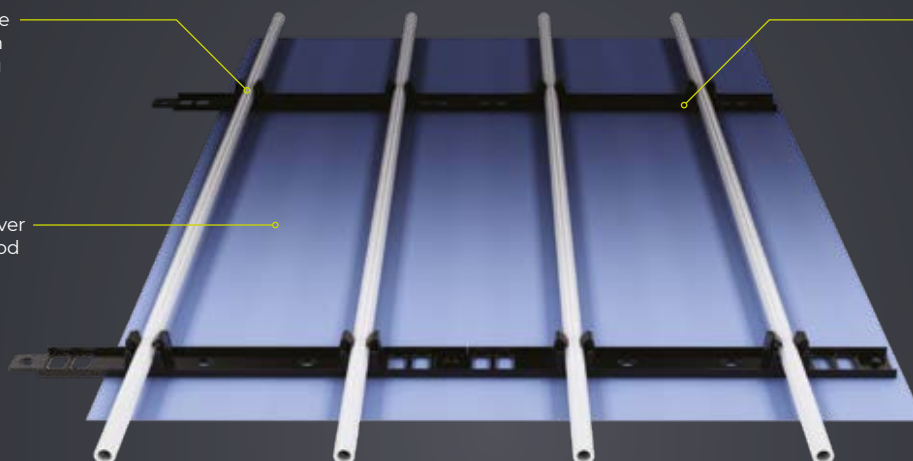
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UFH 16 Datasheet
IG 16 Install guide

Flexible pipe can be installed at 100mm to 300mm spacing

Screed is poured over which provides good heat conduction



ClipRail securely fixes pipe at precise centres.

Screed

ClipRail

OMNIE ClipRail is a quick and simple system to hold underfloor heating pipes in precise position ahead of a covering screed.

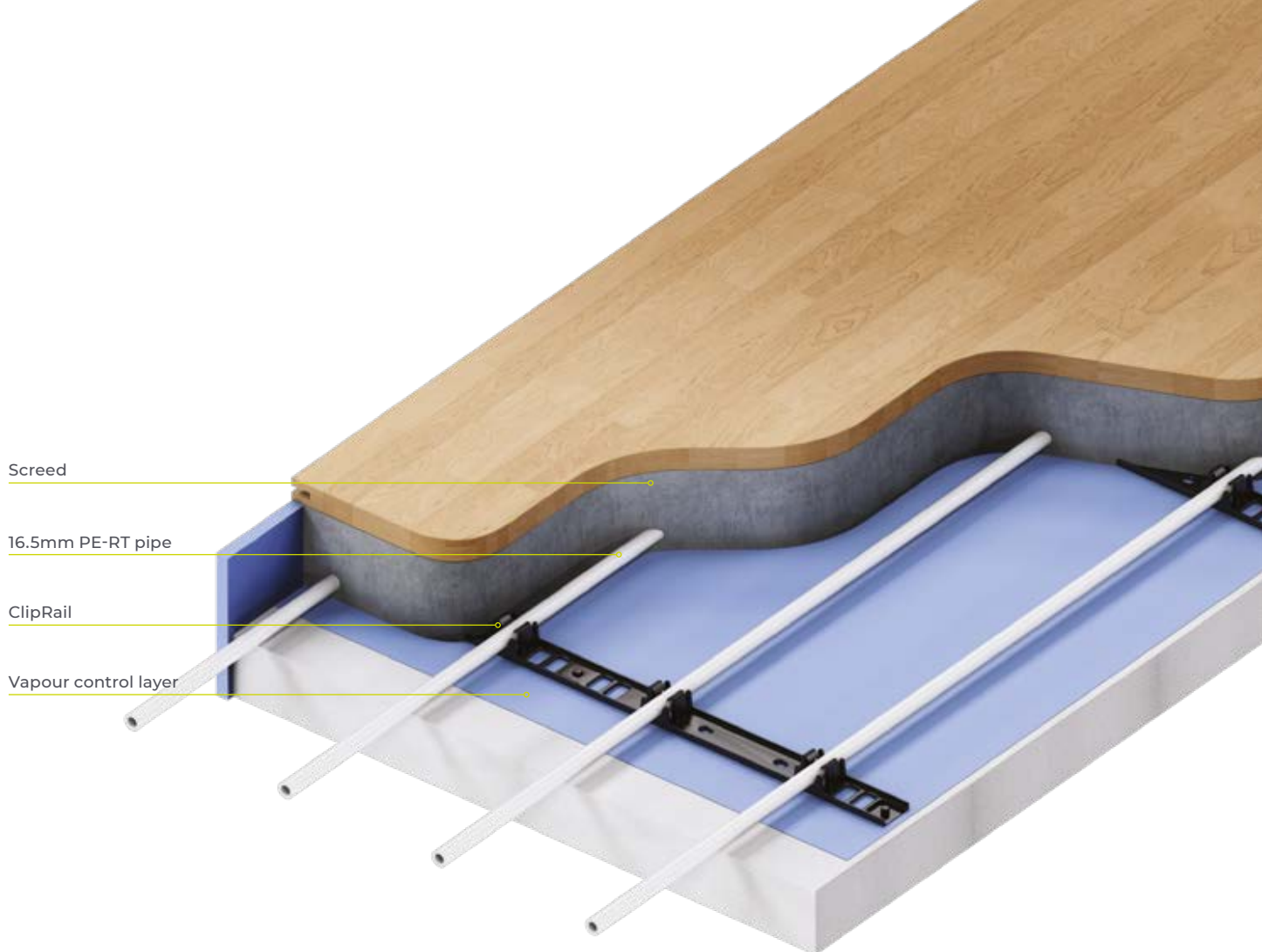
The mounting units interlock and feature a barbed end to fix into the insulation. The flexible pipe is held securely and can be installed at 100mm to 300mm spacing.

An additional vapour control layer / membrane may be required over the insulation prior to fixing the ClipRail units.

Key features



Cost-effective solution



Screed

16.5mm PE-RT pipe

ClipRail

Vapour control layer

Heating performance

88 W/m^2 38 $^{\circ}\text{C}$

Heat output in W/m^2
at flow water
temperature at 50°C

Flow water
temperature for a heat
output of 50 W/m^2

Specifications

Suitable for:
Screeded floors

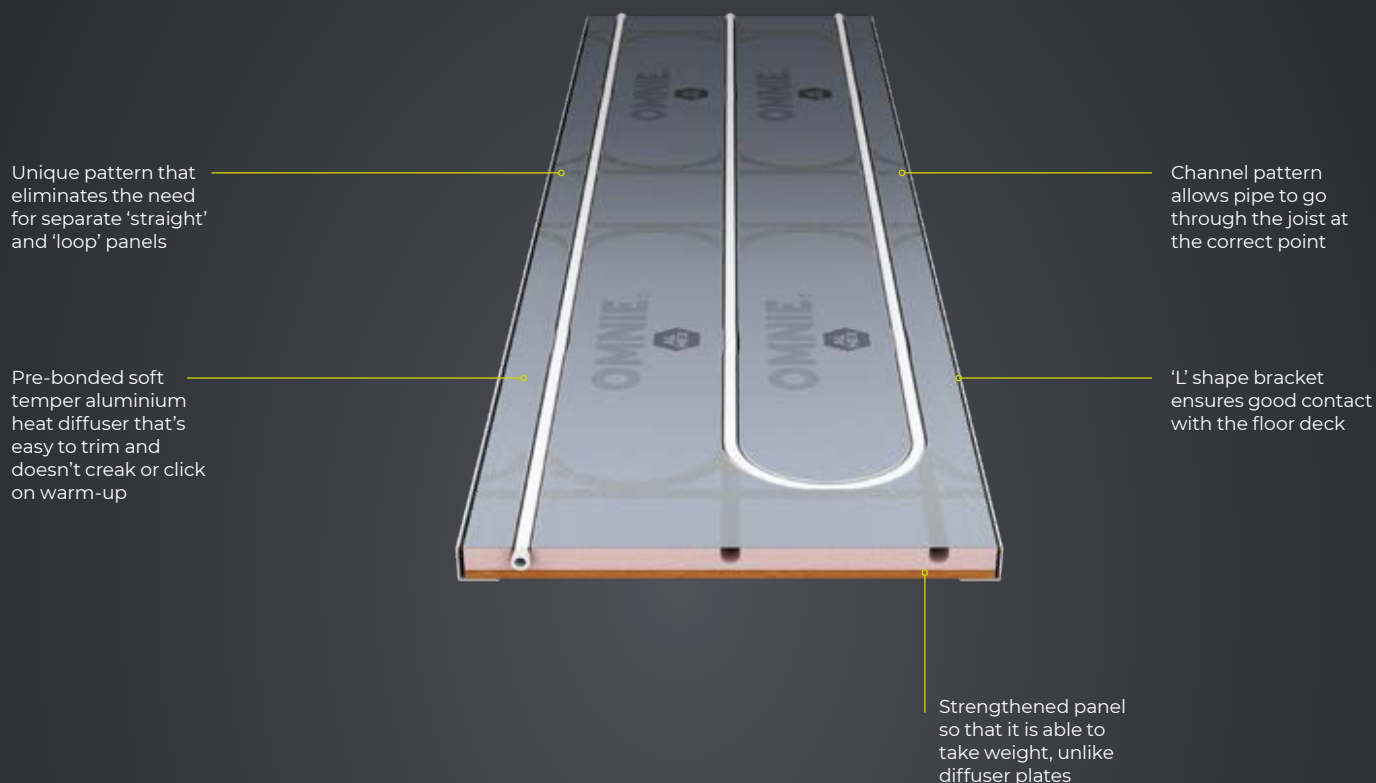
Pipe centres:
100mm/150mm/200mm
(16.5mm pipe)



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UFH 27 Datasheet
IG 27 Install guide






Timber Suspended

FoilBoard®

FoilBoard® from OMNIE is an underfloor heating panel for timber suspended floors. Manufactured by OMNIE, the panel is made from insulation with a soft temper aluminium heat diffuser pre-bonded to the surface making it easier to trim than rigid plates as well as removing the clicking and creaking that comes from plates when they warm-up. 'L' shaped brackets can be supplied which leave the top of the joist free for fixings as well as ensuring the panel is in direct contact with the floor improving the heat output, often a problem with thick aluminium diffuser plates.

Key features

-  No noise on warm-up or cool down
-  Omni-directional pipe channels
-  Easy-to-trim panels on site



12mm PE-RT pipe

FoilBoard® panel

Floor joist

Heating performance

83 W/m^2 **39** $^{\circ}\text{C}$

Heat output in W/m^2
at flow water
temperature at 50°C

Flow water
temperature for a heat
output of 50 W/m^2

Specifications

Panel thickness:
24mm

Weight with water:
 1.5 kg/m^2 (50mm)

Suitable for:
Suspended timber floors with joists at
400mm centres

Pipe centres:
133mm

Dimensions:
1200 x 340mm (400mm centre joists)



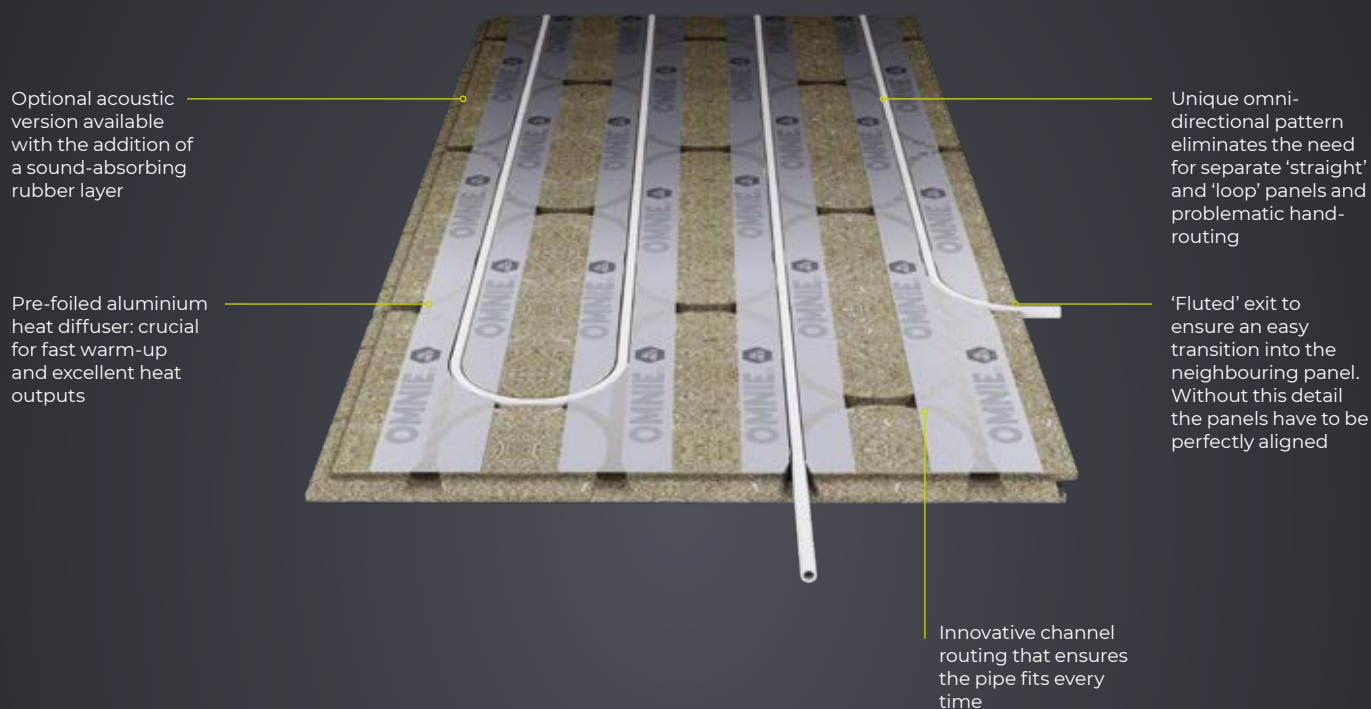
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UFH 09 Datasheet
IG 09 Install guide



Timber Suspended

TorFloor®

TorFloor® is the market-leading underfloor heated flooring panel, and is the only panel to be independently tested at TRADA for structural performance. The 22mm TorFloor® panel, manufactured by OMNIE, has a unique multi-directional panel which means the panels are laid in the same way as conventional chipboard without the need for separate 'straight' and 'loop' panels, and the need for hand-routing channels – which weakens the floor. The pipe channels are spaced at 150mm centres for fast warm-up and high heat output. A 6mm ply layer is bonded and screwed to the panel to complete the floor.

Did you know?

TorFloor® is more energy efficient than aluminium diffuser plates. TorFloor® uses a lower water temperature, so running costs and carbon footprint are reduced, especially with a heat pump.

Key features



Perfect for heat pumps



Omni-directional pipe channels



Floor & heating system in one



12mm PE-RT pipe

Foil diffuser

TorFloor® panel

Timber joist

Heating performance

71_{W/m²}

Heat output in W/m²
at flow water
temperature at 50°C

42°C

Flow water
temperature for a heat
output of 50 W/m²



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datasheets and
install guides.

Specifications

Panel thickness:
22mm (+6mm ply*)

Weight with water:
18.9kg/m² (inc. 6mm)

Suitable for:
Suspended timber floors

Pipe centres:
150mm using 12mm pipe

Dimensions:
2400 x 600mm

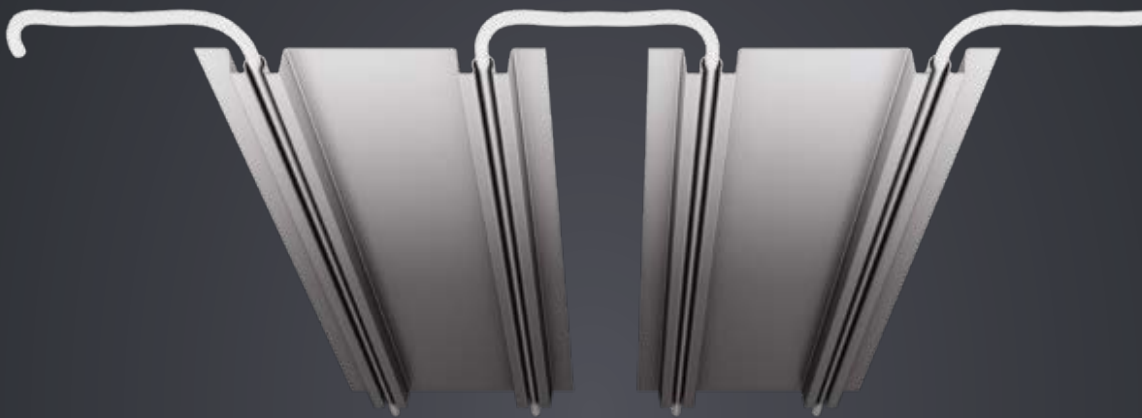
*Not supplied



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UFH 04 Datasheet
IG 04 Install guide



Timber Suspended

UnderPlate

Our new UnderPlate system provides underfloor heating in timber suspended where the floor deck has already been installed or where the floor deck is to be laid prior to the underfloor heating pipe installation.

With a floor deck already in place the UnderPlate system is simply offered up between the joists from underneath and secured to the underside of the floor deck. Alternatively the UnderPlate can be installed from above to straddle the joists in order that a floor deck can be laid so that trades can continue without damaging the underfloor heating. This is particularly relevant to an exposed deck where the progress of construction relies on a working deck to be in place.

In both situations the pipe is then simply pushed into the UnderPlate and once fitted, mineral wool insulation is placed between the system and the proposed ceiling to complete the installation.

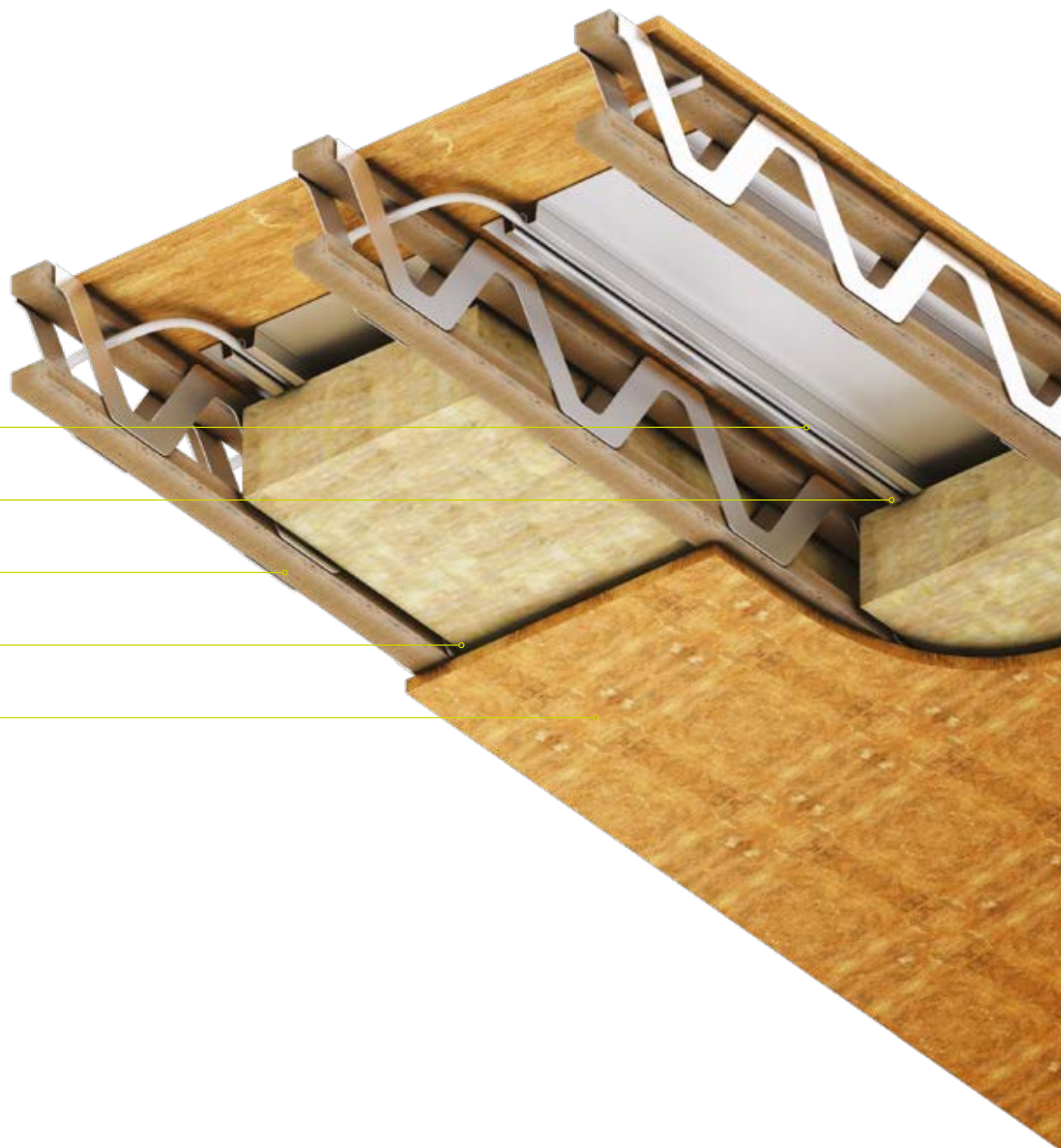
Key features



No noise on warm-up or cool down



Installation from above & below



16.5mm PE-RT pipe

UnderPlate diffuser

Floor joist

Insulation

Ceiling panel

Heating performance

62_{W/m²} 45^{°C}

Heat output in W/m²
at flow water
temperature at 50°C

Flow water
temperature for a heat
output of 50 W/m²

Specifications

Panel thickness:

N/A: apply directly to floor deck
from underside

Suitable for:

Suspended timber floors

Pipe Centre:

200mm (16.5mm pipe)



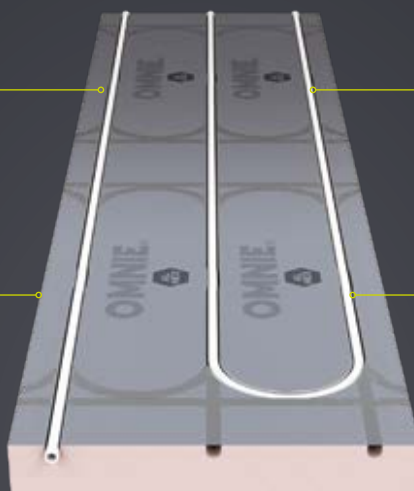
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install guides.



UFH 19 Datasheet
IG 19 Install guide

Pre-bonded soft temper aluminium heat diffuser that's easy to trim and doesn't creak or click on warm-up

Available in 25mm and 50mm thicknesses for 133mm centre pipe



Unique pattern that eliminates the need for separate 'straight' and 'loop' panels

Channel pattern allows pipe to go through the batten at different points

Batten Floors

FoilBatten

FoilBatten from OMNIE is an underfloor heating panel for timber batten floors. Manufactured by OMNIE, the panel is made from insulation with a soft temper aluminium heat diffuser pre-bonded to the surface making it easier to trim than rigid plates as well as removing the clicking and creaking that comes from plates when they warm-up. As the panels fit neatly in the batten space, unlike aluminium diffusers, the top of the batten is free from fixings. The panels ensure good contact with the floor removing the possibility of sagging plates and poor heat output.

Key features



No noise on warm-up or cool down



Omni-directional pipe channels



Easy-to-trim panels on site



12mm PE-RT pipe

FoilBatten panel

Batten

Heating performance

83 W/m^2 **39** $^{\circ}\text{C}$

Heat output in W/m^2
at flow water
temperature at 50°C

Flow water
temperature for a heat
output of 50 W/m^2

Specifications

Panel thickness:
25mm/50mm

Weight with water:
 1.5 kg/m^2 (50mm)

Suitable for:
Batten Floors with joists at 400 or
600mm centres

Pipe centres:
133mm

Dimensions:
1200 x 345mm (400mm centre battens)
1200 x 545mm (600mm centre battens)



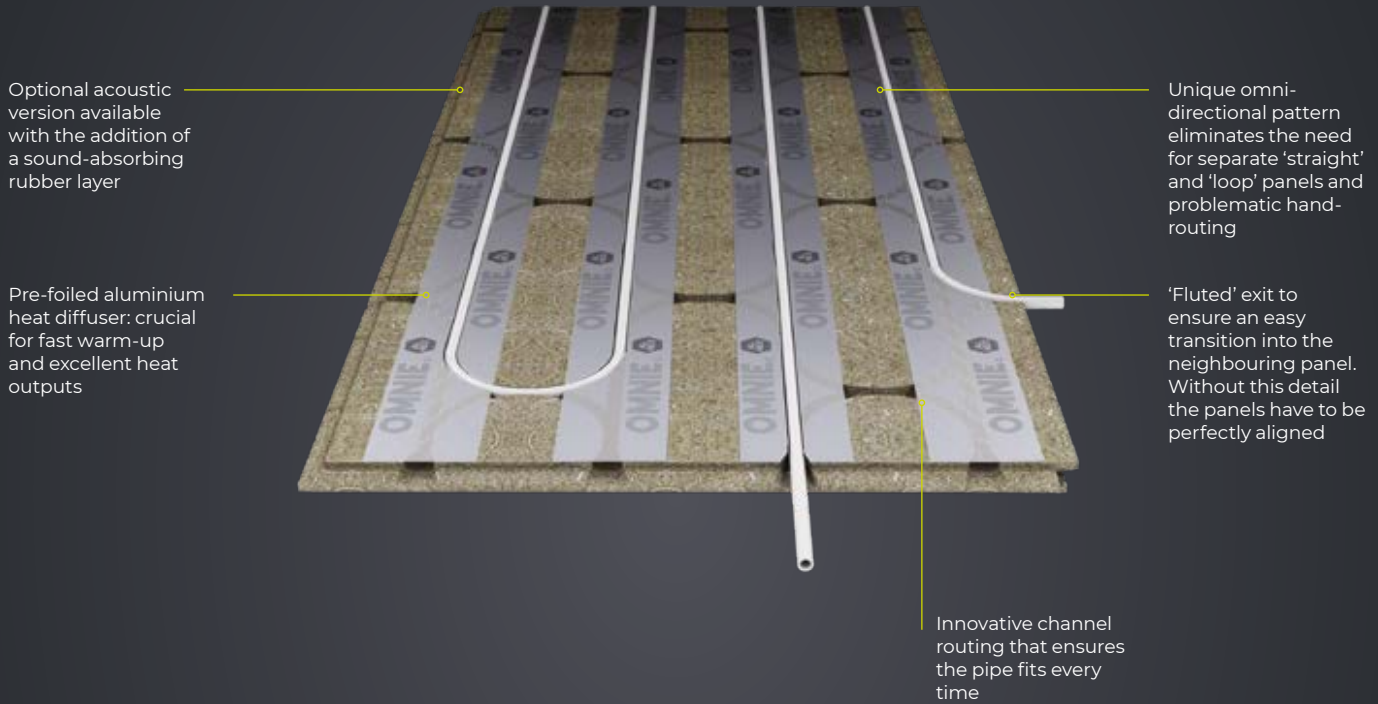
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UFH 07 Datasheet
IG 07 Install guide



Batten Floors

TorFloor®

TorFloor® is the market-leading underfloor heated flooring panel, and is the only panel to be independently tested at TRADA for structural performance. The 22mm TorFloor® panel, manufactured by OMNIE, has a unique omni-directional panel which means the panels are laid in the same way as conventional chipboard without the need for separate 'straight' and 'loop' panels, and the need for hand-routing channels – which weakens the floor. The pipe channels are spaced at 150mm centres for fast warm-up and high heat output. A 6mm ply layer is bonded and screwed to the panel to complete the floor.

Did you know?

TorFloor® is more energy efficient than aluminium diffuser plates. TorFloor® uses a lower water temperature, so running costs and carbon footprint are reduced, especially with a heat pump.

Key features



Perfect for heat pumps



Omni-directional pipe channels



Floor & heating system in one

12mm PE-RT pipe

TorFloor® panel

Timber joist

Foil diffuser

Heating performance

71 W/m^2

Heat output in W/m^2
at flow water
temperature at 50°C

42 $^\circ\text{C}$

Flow water
temperature for a heat
output of 50 W/m^2

Specifications

Panel thickness:
22mm (+6mm ply*)

Weight with water:
 18.9kg/m^2 (inc. 6mm)

Suitable for:
Batten floors

Pipe centres:
150mm using 12mm pipe

Dimensions:
2400 x 600mm

*Not supplied



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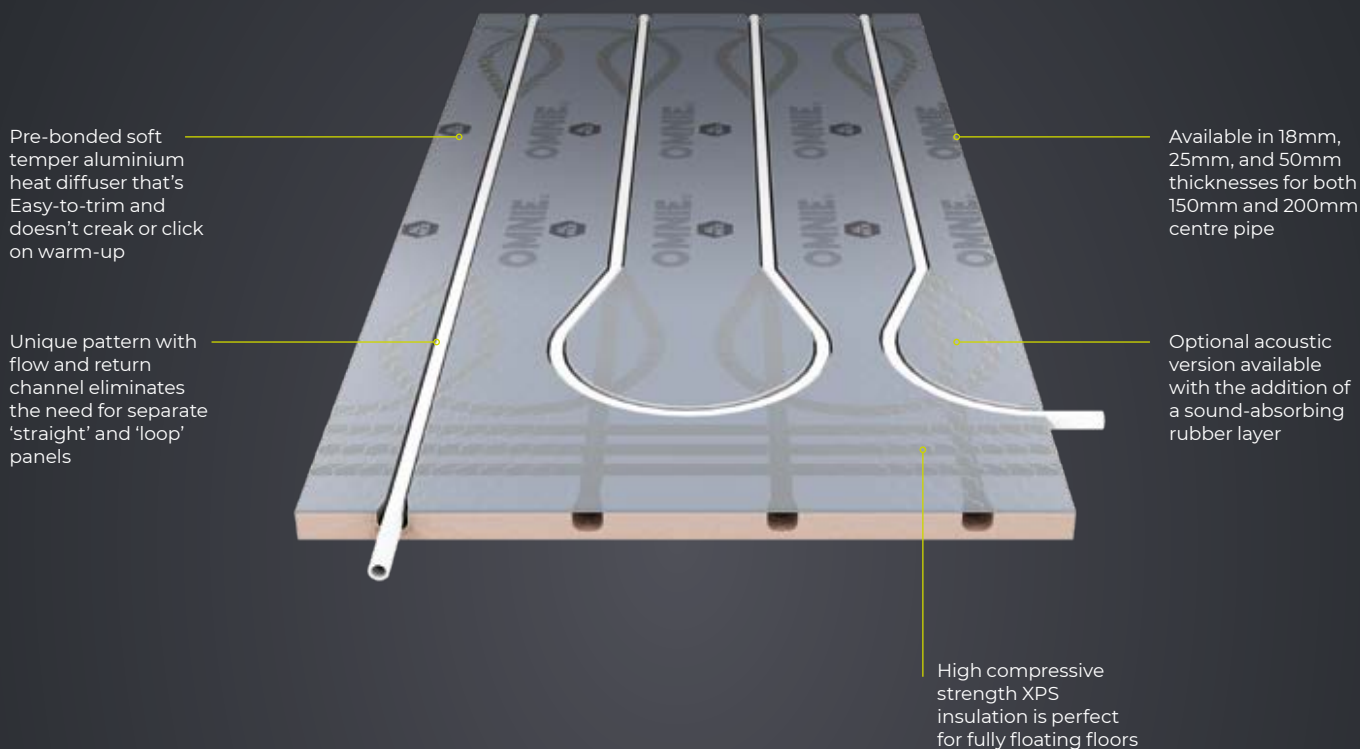


UFH 03 Datasheet
IG 03 Install guide



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Floating

FoilFloat

FoilFloat from OMNIE is an underfloor heating panel for fully floating floors. Manufactured by OMNIE, the panel is made from extruded polystyrene (XPS) which has a high compressive strength making it perfect to support the tongue and groove floor deck that is laid over. The FoilFloat panel has soft temper aluminium heat diffusers pre-bonded to the panel making it easier to trim than rigid diffusers as well as removing the clicking and creaking that comes from rigid plates when they warm-up and cool down.

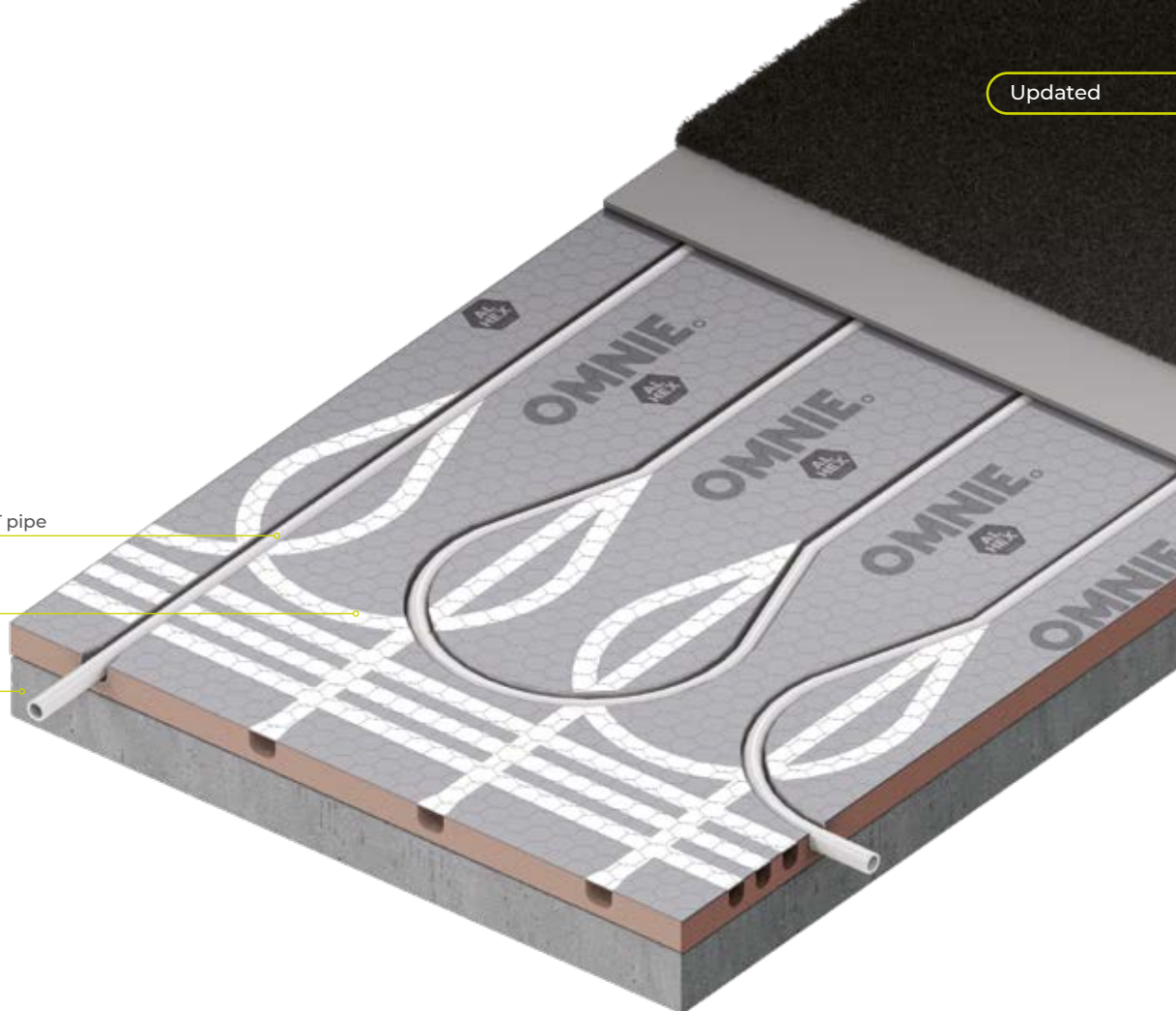
Key features

-  No noise on warm-up or cool down
-  Omni-directional pipe channels
-  Easy-to-trim panels on site

16.5mm or 12mm PE-RT pipe

FoilFloat panel

Concrete subfloor



OMNIE MultiTop

This product can be used with OMNIE MultiTop. MultiTop is a 4mm sheet that is glued to the underfloor heating product using RS-Bond.

- Replaces the tongue and groove floor and the decoupling layer (stress-reducing underlay) if tiles are being laid over (timber laminates can be laid over also).
- More conductive than cement boards or chipboard it has a higher output and faster warm-up than when using those thicker coverings with tiles.
- Less dust created from cutting – cut with saw or knife.
- Much lighter and easier to handle than cement boards or chipboard.
- Tiles and flexible tile adhesive can be used directly over the MultiTop.
- Reduces noise impact.
- Environmental credentials – very low emission – EC1.

Heating performance

82 W/m^2 40 $^{\circ}\text{C}$

Heat output in W/m^2
at flow water
temperature at 50 $^{\circ}\text{C}$

Flow water
temperature for a heat
output of 50 W/m^2

Specifications

Panel thickness:
18mm/25mm/35mm/50mm

Weight with water:
1.5kg/ m^2 (50mm)

Suitable for:
Floating Floors

Pipe centres:
150mm (12mm / 16.5mm pipe)

Dimensions:
1200 x 600mm



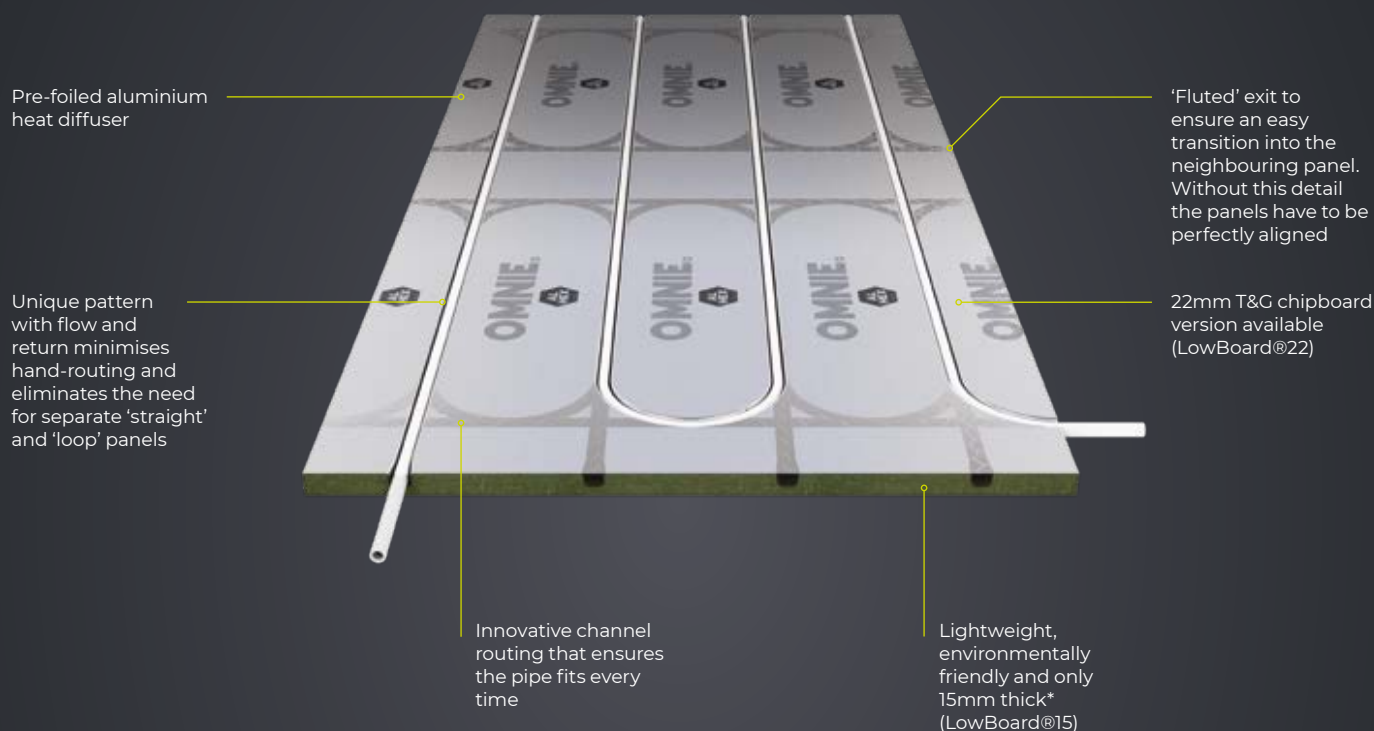
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UFH 06 Datasheet
IG 06 Install guide



Low Build-up / Overlay

LowBoard®

LowBoard®, manufactured by OMNIE, is a low build-up underfloor heating system laid over an existing floor. The system provides a way for underfloor heating to be installed in the lowest possible build-up, minimising the impact on floor-to-ceiling height. Once installed, a covering layer is laid over, such as 6mm ply or a laminate or wood floor as the finish. The pipe channels are at 150mm pipe spacings for fast warm-up and high heat output. Tiling is possible over LowBoard® but we recommend the OMNIE Ultimate low build-up system which provides a cementitious floor for tiling over.

Key features



**Omni-directional
pipe channels**



**Low build-up/
perfect for retrofit**

12mm PE-RT pipe

LowBoard® panel

Concrete subfloor



OMNIE MultiTop

This product can be used with OMNIE MultiTop. MultiTop is a 4mm sheet that is glued to the underfloor heating product using RS-Bond.

- Replaces the tongue and groove floor and the decoupling layer (stress-reducing underlay) if tiles are being laid over (timber laminates can be laid over also).
- More conductive than cement boards or chipboard it has a higher output and faster warm-up than when using those thicker coverings with tiles.
- Less dust created from cutting – cut with saw or knife.
- Much lighter and easier to handle than cement boards or chipboard.
- Tiles and flexible tile adhesive can be used directly over the MultiTop.
- Reduces noise impact.
- Environmental credentials – very low emission – EC1.

Heating performance

69 W/m^2

Heat output in W/m^2
at flow water
temperature at 50°C

43 $^\circ\text{C}$

Flow water
temperature for a heat
output of 50 W/m^2

Specifications

Panel thickness:

15mm/22mm

Weight with water:

12kg/m² (LowBoard®15)

Suitable for:

Low build-up & floating floors

Pipe centres:

150mm (12mm pipe)

Dimensions:

1200 x 600mm (15)

2400 x 600mm (22)



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UFH 01 Datasheet

IG 01 Install guide

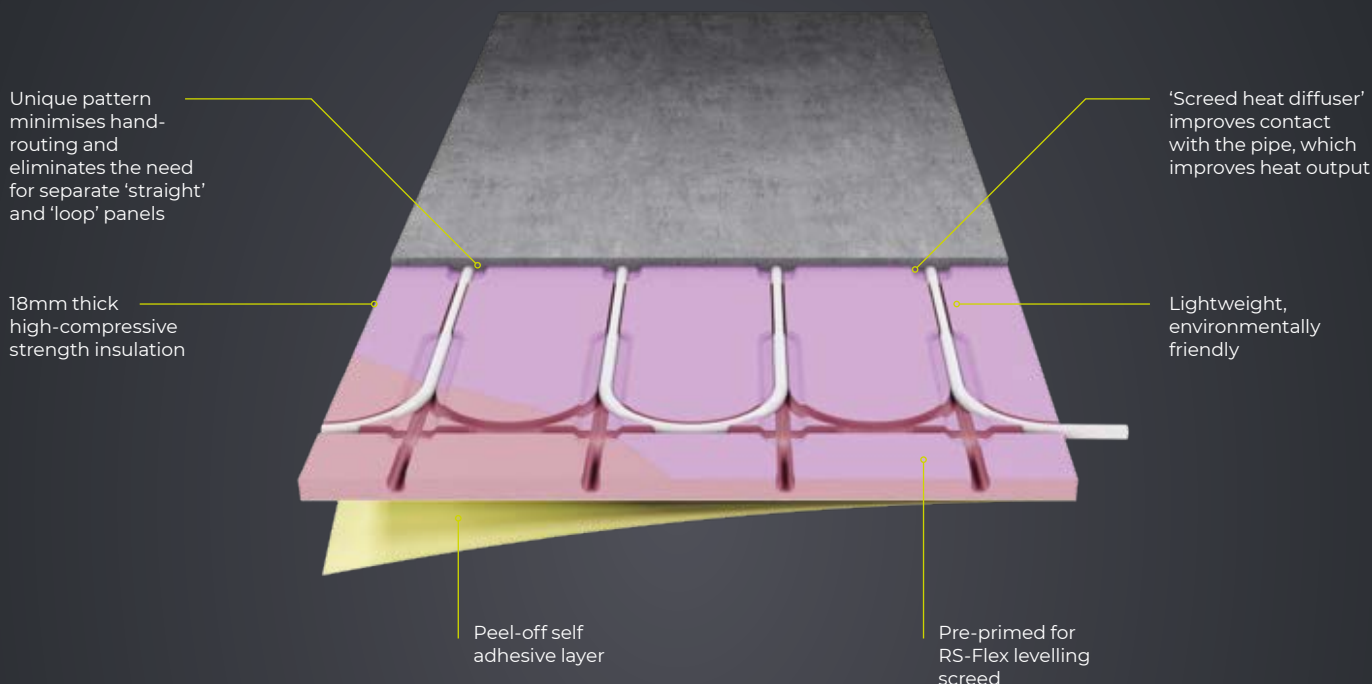
UFH 02 Datasheet (22mm)

IG 02 Install guide (22mm)



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Low Build-up / Overlay

Ultimate 2

Ultimate 2 is the new low build-up screed system from OMNIE that, due to the insulation and unique diffusers, has a higher heat output and faster warm-up than typical low build-up castellated screed systems, as well as minimising thermal striping. The high compressive strength insulation provides an excellent substrate for the 9mm thin levelling screed, giving an overall system height of just 27mm – including insulation.

The 18mm panel uniquely comes pre-primed for the RS-Flex levelling screed and has a peel-off self-adhesive layer on the underside so it can be bonded directly with the subfloor. Just stick the panel down and pour the levelling screed over making it up to 50% faster to install than alternative thin screed systems, and reducing the system cost up to 35%.

Key features



Perfect for heat pumps



Omni-directional pipe channels



Low build-up/
perfect for retrofit



12mm PE-RT pipe

Ultimate 2 panel

Concrete subfloor

Heating performance

87 W/m^2 **38** $^{\circ}\text{C}$

Heat output in W/m^2
at flow water
temperature at 50°C

Flow water
temperature for a heat
output of 50 W/m^2

Specifications

Panel thickness:
18mm (+9mm screed)

Suitable for:
Solid and timber floors

Pipe centres:
150mm (12mm pipe)

Dimensions:
1200 x 600mm



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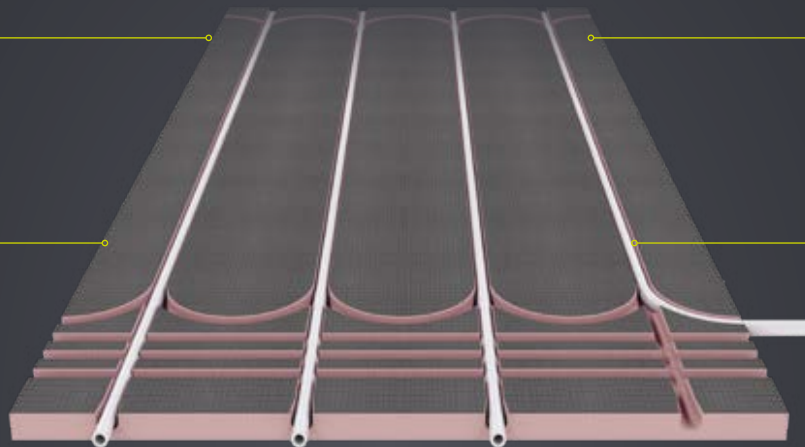
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UFH 21 Datasheet
IG 21 Install guide

20mm cement
faced XPS insulation
(300kpa)

OMNIE-Tile panels
bonded or fixed
to subfloor with
adhesive



Tile adhesive and tiles
laid over

12mm channels for
underfloor heating
pipe

Low Build-up / Overlay

OMNIE-Tile

OMNIE-Tile is a low build-up UFH product manufactured by OMNIE. Using 20mm extruded polystyrene insulation (XPS) faced with cementitious material, the tiles can be laid with confidence on a firm tried and fully tested floor build-up.

The OMNIE-Tile panels are routed with 12mm channels with loops at either end of the board to make installation easy to manage with the minimal amount of cutting.

The panels are simply fixed or bonded to the subfloor and, in turn, tiles are adhered to the board. As the tiles and adhesive are conductive the heat output and warm-up are sufficient without needing an aluminium diffuser, however, high water temperatures should be avoided as this will lead to noticeable cold spots on the tiled floor where there is no pipe. The product cannot be used with any other floor finish.

Key features



Perfect for heat
pumps



Omni-directional
pipe channels



Low build-up/
perfect for retrofit



12mm PE-RT pipe

OMNIE-Tile panel

Concrete subfloor

Heating performance

77 W/m^2

Heat output in W/m^2
at flow water
temperature at 50°C

41 $^\circ\text{C}$

Flow water
temperature for a heat
output of 50 W/m^2

Specifications

Panel thickness:

20mm

Weight with water:

1–5kg/m²

Suitable for:

Solid and timber floors

Pipe centres:

150mm (12mm pipe)

Dimensions:

1250 x 600mm



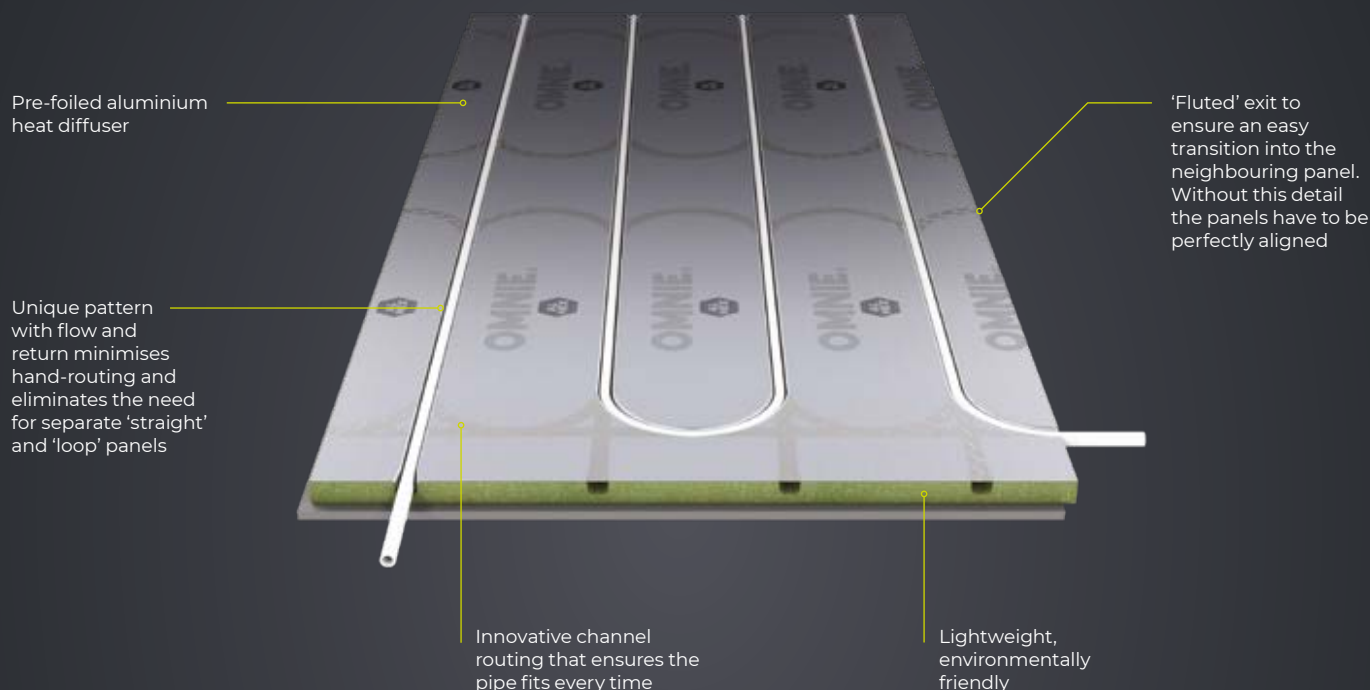
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UFH 26 Datasheet
IG 26 Install guide







Acoustic & Specialist

LowBoard® RdB

LowBoard® RdB is a low build-up underfloor heating system and acoustic separation in one. It is designed to dampen vibration and attenuate impact and airborne sound passing through floors with minimum loss of floor height. The system can be laid on solid or timber floors and is supplied with edge isolation strip.

The LowBoard® RdB panels comprise a 15mm moisture resistant high-density wood board combined with an 8mm acoustic rubber offset to provide a lap joint. As per our standard LowBoard® 15 product, the wood board layer has grooves routed to accept 12mm pipe and an aluminium layer bonded to the top which acts to spread the heat through the floor. The panels are laid in a brick pattern with the pipe installed by piercing through the soft temper aluminium diffuser into the multi directional channels. A finished floor deck or 6mm ply, MDF or similar is floated or mechanically fixed over the LowBoard® RdB panels to complete the floor.

Key features

-  Perfect for heat pumps
-  Omni-directional pipe channels
-  Low build-up/ perfect for retrofit
-  Acoustic insulation

12mm PE-RT pipe

LowBoard RdB panel

Concrete subfloor



Heating performance

69 W/m^2

Heat output in W/m^2
at flow water
temperature at 50°C

43 $^\circ\text{C}$

Flow water
temperature for a heat
output of 50 W/m^2

Specifications

Panel thickness:

23mm

Weight with water:

14kg/m²

Suitable for:

Solid and timber floors

Pipe centres:

150mm (12mm pipe)

Dimensions:

1200 x 600mm



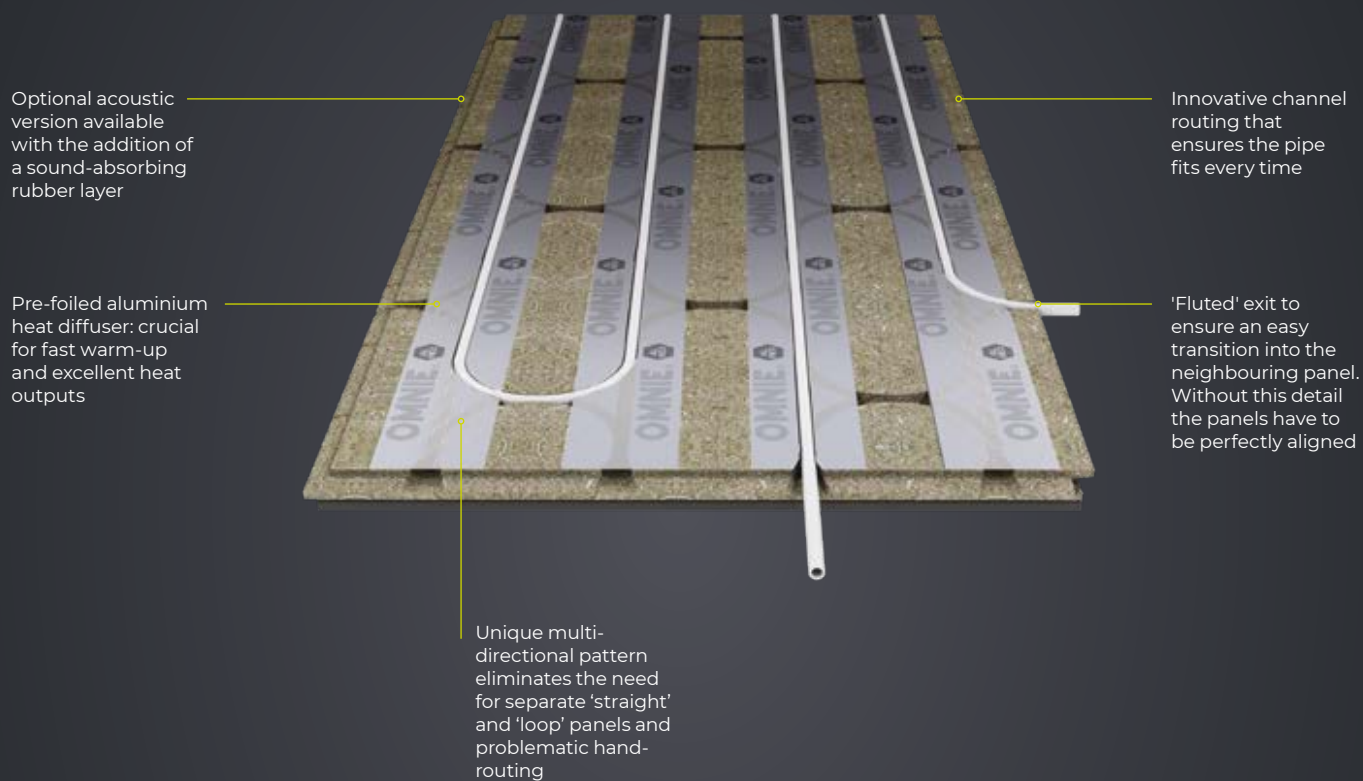
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Combine with our heat pumps for
effective cooling performance



UFH 20 Datasheet
IG 20 Install guide







Acoustic & Specialist

TorFloor® RdB

The TorFloor® RdB system is, in principle, the same as the standard TorFloor® system but the TorFloor® RdB panel has an additional layer bonded to the underside to reduce vibration, and attenuate airborne and impact noise passing through floors.

Key features

-  Perfect for heat pumps
-  Omni-directional pipe channels
-  Floor & heating system in one
-  Acoustic insulation



12mm PE-RT pipe

Torfloor RdB panel

Timber joist

Heating performance

71 W/m^2

Heat output in W/m^2
at flow water
temperature at 50°C

42 $^\circ\text{C}$

Flow water
temperature for a heat
output of 50 W/m^2

Specifications

Panel thickness:
30mm (+6mm ply*)

Weight with water:
 26kg/m^2

Suitable for:
Suspended floors

Pipe centres:
Standard: 150mm (12mm pipe)

Dimensions:
2400 x 600mm

*not supplied



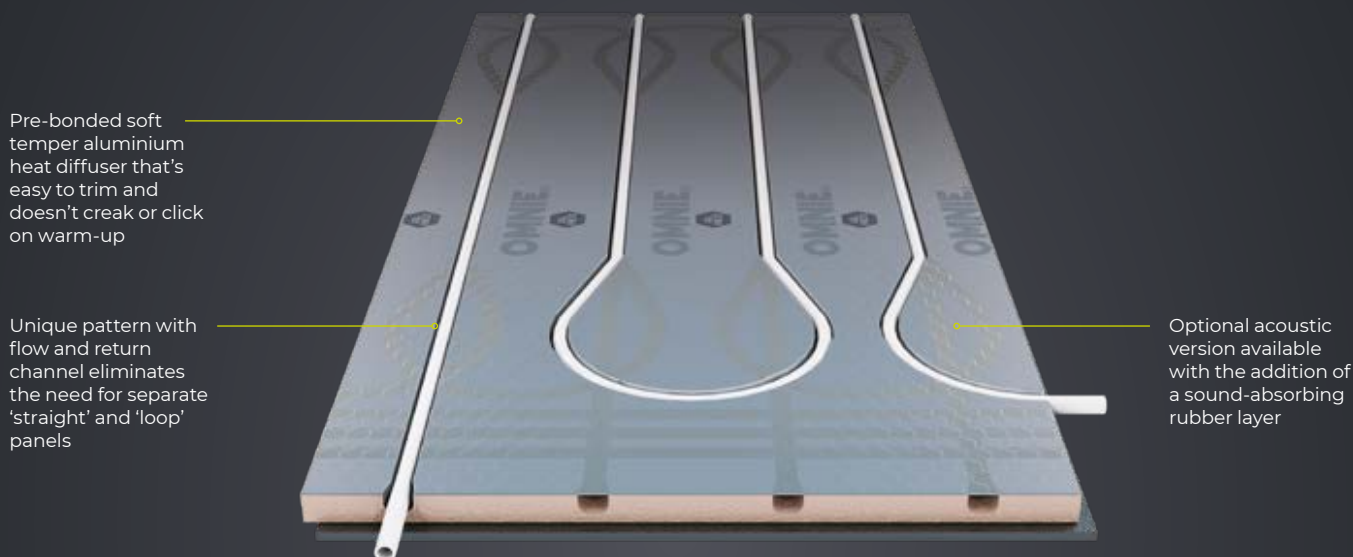
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UFH 05 Datasheet
IG 05 Install guide







Acoustic & Specialist

FoilFloat RdB

Integrated insulation and underfloor heating system for timber floors. The panels are manufactured from high-quality extruded polystyrene (XPS) insulation with a pre-bonded soft temper aluminium heat diffuser.

Key features

-  Perfect for heat pumps
-  Omni-directional pipe channels
-  Low build-up/
perfect for retrofit
-  Acoustic insulation

16.5mm PE-RT pipe

FoilFloat RdB panel

Concrete subfloor



Heating performance

82_{W/m²} 40^{°C}

Heat output in W/m²
at flow water
temperature at 50°C

Flow water
temperature for a heat
output of 50 W/m²

Specifications

Panel thickness:

25mm (+8mm)

Suitable for:

Solid and timber floors

Pipe centres:

150mm (16.5mm pipe)



Visit our resources
finder to download
datasheets and
install guides.



Combine with our heat pumps for
effective cooling performance



UFH 06 Datasheet
IG 06 Install guide

Pipe wall PE-RT

Polycarbonate layer to
improve strength and ensure
good push-fit properties

EVOH oxygen barrier
layer to ensure high
degree of oxygen tightness

Further polycarbonate
layer to add strength
and reduce deforming

Protective layer of
PE-RT to prevent
damage

5 times the pipe

Our pipes aren't just pipes, they have superior molecular structure that ensures very good thermal stability and exceptional mechanical strength.

The five-layer structured pipe achieves a high degree of oxygen tightness. The entire range is backed by decades of experience in plastics processing. A specially modified polyethylene of medium density is used for the underfloor heating pipe, the molecular structure and composition of which ensures very good thermal stability and superior mechanical strength.

The pipe is manufactured by means of extrusion in one single process. The EVOH layer provides a very good oxygen barrier while the outer PE-RT layer protects the entire structure against damage. Only the best quality materials from renowned manufacturers are used.

Thickness range:
12mm & 16.5mm

DIN
4721

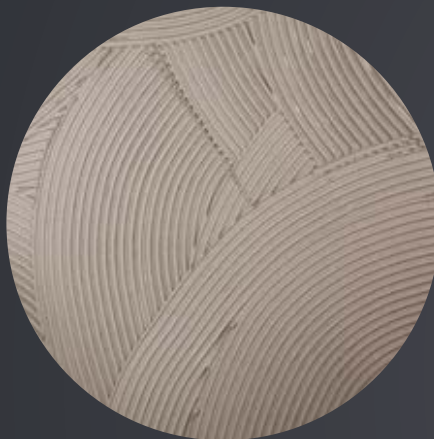
MAX
60°C

MAX
6bar

Floor finishes and underfloor heating

Underfloor heating has a floor surface temperature of approximately 26°C for most applications. However, some systems, where the building heat loss is high, will require a surface temperature up to 29°C.

This is dependent on the floor finish manufacturer's instructions as they may stipulate a maximum floor temperature. The underfloor heating system should be designed to suit these requirements, although this may mean a reduction in heat output.



Adhesives

Our products have been designed and tested to work effectively with a tiled or decorative floor finish using adhesive and anti-fracture matting. Supplied by OMNIE, these products have been specifically tested to provide a secure and flexible bond that will not deteriorate, break or lead to an uneven floor finish once tiles have been applied.



Engineered wood floors and timber

OMNIE has long experience of how UFH is the best way of caring for a hardwood floor. Timber changes dimension due to changes in its moisture content, and this varies naturally throughout the year. The challenge is to keep the moisture content of the upper and lower surfaces of the timber the same. If they do, the timber floor will stay perfectly flat. If they don't, it will crown or cup.

The first step is to lay the timber floor with a moisture content of 8–10%. The second is to ensure the UFH turns on gradually at the beginning of each heating season, which can be assured by using programmable room thermostats and leaving the heating on.



Ceramic and stone

These materials have a low thermal resistance that makes them very suitable for underfloor heating. Consideration must be given to expansion gaps and the suitability of adhesives used to bond the tiles to the subfloor.

Underfloor heating is suitable for use under any ceramic or natural stone floor tiles, including slate, marble, porcelain, terracotta and limestone. Ceramic tiles and stone finishes are both good conductors of heat and as a result are very well suited to underfloor heating. Care must be taken when laying over suspended or batten floors. The tiles should be properly supported and the tile manufacturer's instructions must be followed.



Carpets

Our general advice is to avoid carpets and underlay having thermal resistance greater than 1.5 Tog.

Underfloor heating is more effective when used with carpets and underlay with lower combined Tog values. This enables heat to be transferred to the emitting surface of the carpet more easily. The higher the Tog value of the carpet and underlay, the greater the reduction in output from the underfloor heating system.

If your intended finish is greater than 1.5 Tog then please call us and we will check the performance of your underfloor heating system.



Linoleum and vinyl tiles or sheet

Vinyl is usually suitable for underfloor heating, although this is dependent on thickness. Thick rubber tiles may inhibit heat output.

Advice should be sought from the manufacturer on the maximum surface temperature the vinyl can reach.

Precision-Flo High-Performance Manifold

The central point of any OMNIE underfloor heating system

The manifold distributes the primary warm water into each underfloor heating circuit. It is the central point for the underfloor heating system and brings together the warm water feed from a heat source, the pipe work from the floor and the thermostat wiring.

A manifold can serve areas up to 200m² but installation is easier if a manifold is installed in an accessible central location on each floor. The size of the manifold depends on the area it is serving.






Manifold with mixing unit and circulator:


The manifold is supplied with a mixing unit and circulator to ensure the water temperature entering the floor does not exceed the design temperature. This manifold configuration is essential if the heat source is able to supply high temperature water.

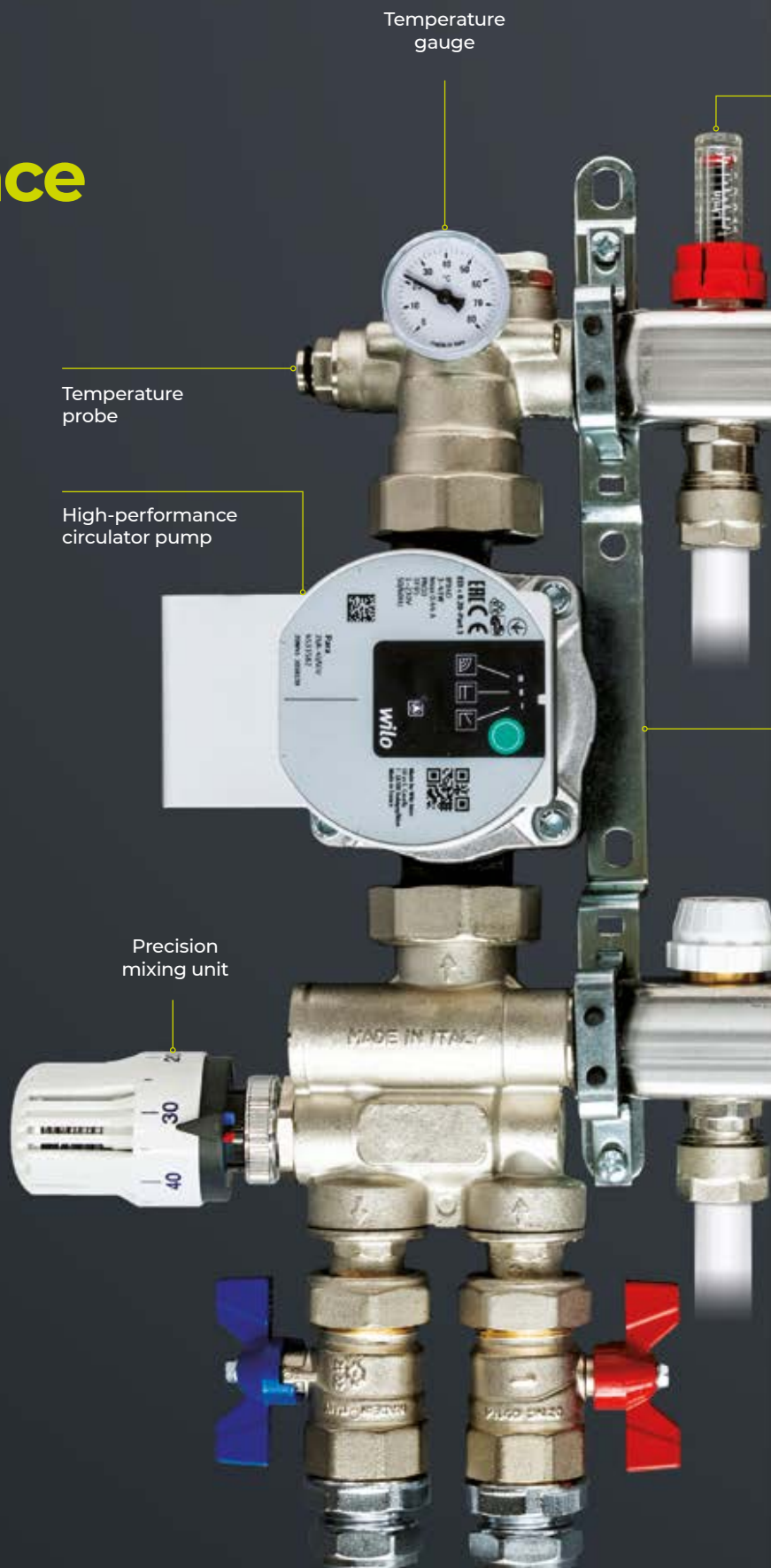
'Branch' manifold:

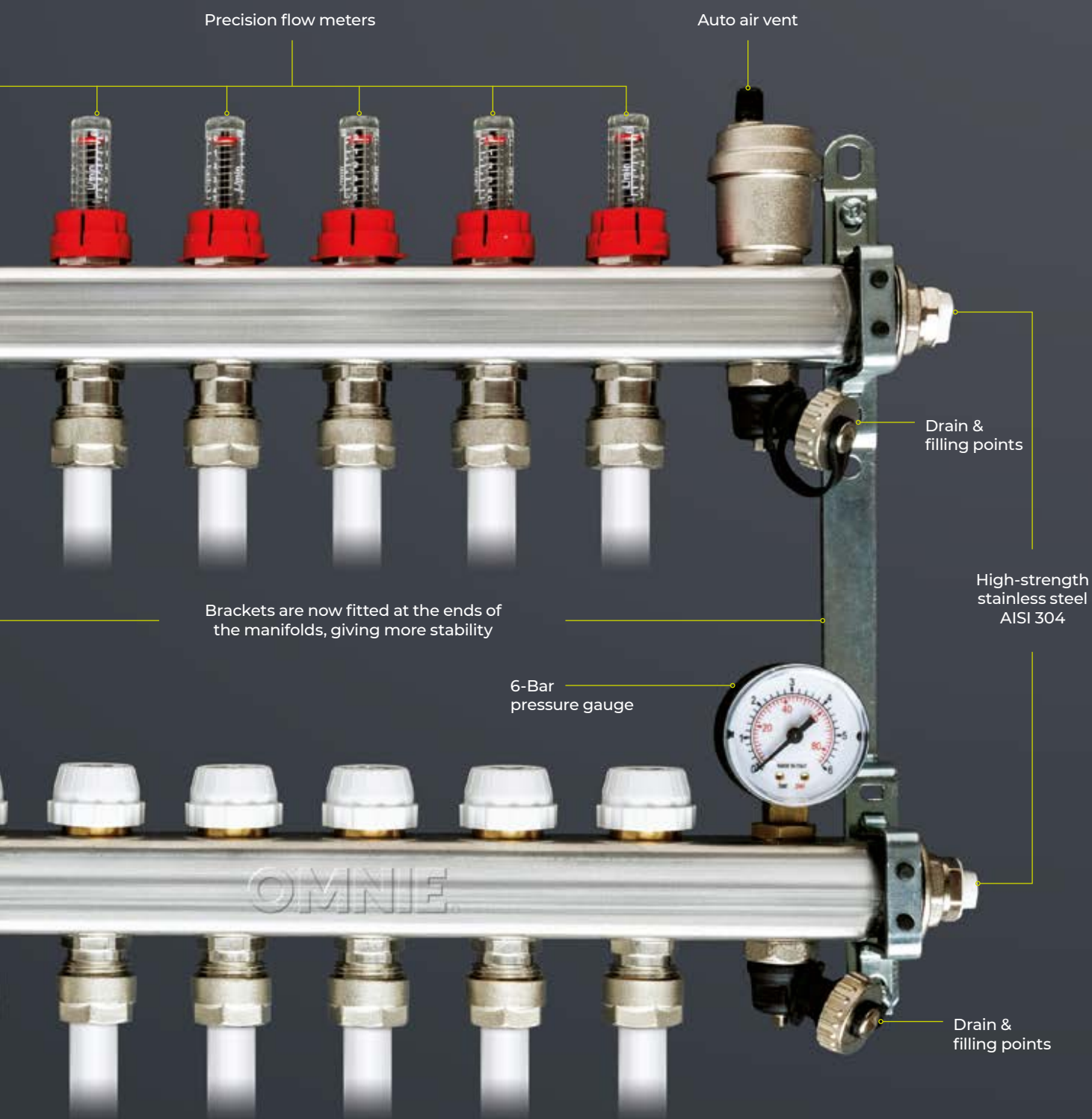
If the water is supplied at the correct temperature then the mixing valve is unnecessary. Also, if there is a primary circulator installed then this can be removed from the manifold assembly too.

Key Features

-  Auto air vents
-  Drain and filling point
-  Flow meters
-  Isolating valves
-  6 Bar pressure gauge

 **UFH 17** Datasheet
IG 17 Install guide





Specification

Sizes available: 2 to 12 Port
Suitable for: Water, Water/Glycol mixtures
Temperature range: -10°C to +95°C
Max system pressure: 6 bar
Electrical supply: 200-240 Volt,
50/60 Hertz

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Warm in the winter Cool in the summer

Perfectly designed for heat pumps, OMNIE underfloor heating can reduce running costs and work at low water temperatures.

Reduce your running costs

Low temperature OMNIE underfloor heating works well with ground and air source heat pumps. Not only will a system that is designed to work at low temperatures reduce running costs, but also will benefit from increased Renewable Heat Incentive (RHI) payments*. The range of underfloor heating products from OMNIE are designed to minimise the temperature of the water needed for your home.

**The RHI scheme is set to end in March 2022*

Designed to be future-proof

It is important that any heating system should be designed with the future in mind. If you install a heating system which depends on high water temperatures it is impractical to change in the future to a heat source which provides water at low temperatures. Every heating system should now be designed to enable the homeowner to retrofit renewable technologies in the future. This involves designing the system for the lowest possible water temperature.



Make savings on energy costs and improve performance with our heat pumps

Why buy from OMNIE?

Air-to-water heat pumps are becoming increasingly more popular across the UK and are being looked at as an alternative to traditional fossil-fuel central heating systems, due to their running cost savings, lower carbon emissions and precise temperature control.

Quality engineering

The heat pumps we supply are manufactured by a range of brands. Our heat pumps have a reputation for high standards of engineering performance, making them both efficient and extremely durable heat pumps.

Design

OMNIE have an experienced technical team who are on hand to provide comprehensive technical support, ensuring that the heat pump meets the project requirements.

For our LG heat pumps, remote access can be setup through the LG ThinQ app. This enables weekly scheduling, control of water temperature, heating emergency operation and a silent operation mode.

Why heat pumps?

Renewable energy

A heat pump takes energy from the ground even at sub-zero temperatures. The absorbed energy is then transferred, at higher temperatures, to the home's heating and hot water system. The energy taken from the air or the ground is then replaced by energy from the sun.

Saving money

Although some electricity is needed to run a heat pump, it is up to five times more efficient than fossil-fuel systems. This saves money on running costs and reduces greenhouse gas emissions.

Cooling

Where cooling is needed, a heat pump can work in reverse cycle to produce chilled water. The chilled water can be used in conjunction with the UFH or chilled ceiling panels to provide mechanical cooling.

Incentives

Heat pumps also benefit from the Renewable Heat Incentive (RHI) which is a guaranteed payment for the amount of renewable energy produced for seven years for the domestic installation.

Our range

LG

THERMA V is an air-to-water heat pump system – simply an alternative heating system to a fossil-fuel gas or oil central heating boiler. Therma V is the commercial name given to LG's air-to-water heat pump range.

Designed to create incomparable customer values such as energy saving, perfect comfort, easy control and superior services. By applying advanced LG technologies (like LG's own designed and manufactured Inverter Scroll Compressor, which is at the heart of the heat pump system), Therma V provides excellent energy efficiency.

Our LG Heat Pumps come with up to a seven year warranty.

Other Manufacturers

In order to optimise the efficiency and required heat outputs for your project, we can supply heat pumps from other manufacturers such as Mitsubishi and Ecoforest.



Renewable rewards

Heat pumps not only present big savings on energy usage, they are also eligible for the Renewable Heat Incentive

Renewable Heating Incentive

The rate payable is dependent on the efficiency of the system, specifically the water temperature needed by the heat emitter.

Using lower temperature water in an OMNIE underfloor heating system increases the amount of RHI that can be claimed.

To be able to claim the RHI it is necessary to provide room-by-room heat loss calculations and to then demonstrate that the chosen heat emitter will meet those losses. The RHI benefits installations smaller than 45kW for refurbishments, retro-fit and self builders.

Running costs

The running costs of a heat pump will, of course, depend on the heat loss of the building, just like a conventional boiler would. In addition the efficiency is improved and the running costs reduced with low temperature OMNIE underfloor heating.

Efficient

The average efficiency of the heat pump over the year is called the Seasonal Performance Factor (SPF) and is important in determining the RHI payment.

Heat Source	Cost per unit of fuel (p/kWh)	Efficiency (%)	Cost per unit of heat (p/kWh)	Relative cost
Ground Source	12p*	340%	3.5p*	-
Air Source	12p*	270%	4.4p*	+26%
Gas	4p*	85%	4.7p*	+34%
Oil	4.5p*	85%	5.3p*	+51%
Biomass	5.5p*	85%	6.5p*	+86%
LPG	6p*	85%	7.1p*	+103%

**Heat source efficiency and fuel cost will vary.*





Therma V Monobloc

THERMA V R32 Monobloc provides reliable and powerful heating for the indoor environment. It can operate even at extremely cold weather like -25°C . Moreover, it can offer leaving water temperature of 65°C at maximum.

THERMA V R32 Monobloc is equipped with the Revolutionary Scroll Compressor. This advanced compressor especially improves the tilting motion of scroll, increasing overall efficiency and reliability. Furthermore, compressor operation ranges are improved to perform from 10 Hz to 135 Hz.

For installers

- All-in-one heating solution with built-in main components allows easy installation without additional refrigerant piping work. Installers can easily check and provide service just by removing 3 pieces of screw. Moreover, clip type water strainers are installed

for easy access to strainer without the need for extra tools.

- Based on installation site information, installers can prepare presetting with LG THERMA V Configurator and save data into memory card from their office. At the site, then, installers can simply insert memory card at the back of remote controller to activate configuration data. This allows easy and quick commissioning for installers.

For end users

- Low cost unit
- Easy to use
- LG Smart Heating Control
- Domestic hot water heating
- Connect with LG SmartThinQ
- MCS approved





Therma V Monobloc Twin

- Outside installation
- Optional cooling package
- Heat pump module
- Flow temperature up to +65°C possible
- Can be combined with Solar Thermal
- Heating capacity/supply voltage
5-16kW (230V)

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Personalise your heating with ease and precision from anywhere

High-performance controls specifically developed by OMNIE for underfloor heating systems.

Latest in product design

Touch is specifically developed for underfloor heating

Heating & hot water

Fully programmable heating and hot water systems

Remote sensors

Add an optional remote sensor to measure temperature across the home including partner zones, ideal for bathrooms, wet rooms and en suites

Zone control

Up to 64 unique heating zones with partner zone options. Group zones into useful spaces and even homes and buildings

Mains powered

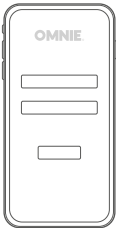
Mains powered 4" full colour touchscreen for every zone and hard wiring to standard wiring centre

Full control

With the Touch app you can access and control your heating system from anywhere with a smartphone

OMNIE Home smart controls

Our new OMNIE Home smartphone app allows you to organise and control your home heating system from anywhere. You can easily setup different homes, zones and programmes to effortlessly take control of your at-home environment. The app works both whilst you are at home and also anywhere in the world where your phone or tablet can connect to the internet.



Gateway



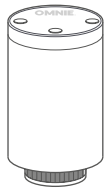
UFH Zone
Thermostat
(up to 64 zones)



Optional wifi with
battery-powered
thermostats



UFH
Wiring Centre
(Can be wireless)



Radiator
SmartTwist TRV





Smart Thermostat

Super slim profile

The OMNIE Home smart thermostat has a super slim profile, to seamlessly fit in with contemporary living. Thinner than a light switch, our smart thermostat doesn't protrude off the wall like others do.

Wireless connectivity

The OMNIE Home can connect wirelessly to our OMNIE Home Wiring Centre (to control underfloor heating, radiators and hot water). This means there is no need for bulky cables running from your manifold to every thermostat and allows you to easily retrofit the OMNIE Home system into an existing house. Moreover, you can easily extend the system, for example, into an extension, very easily.

Mains & battery powered

The OMNIE Home smart thermostat is available in both mains-powered and battery-powered versions.

Smart Switch

Also available with OMNIE Home is our Smart Switch – this allows you to wirelessly switch connected appliances on and off using the OMNIE Home App for your smartphone or tablet.



Smart Switch



Temperature Sensor



Gateway

The OMNIE Home Gateway connects your thermostats at home to your smartphone on the go. The gateway plugs into your home router and wirelessly communicates with the OMNIE Home smart thermostats and remote switches so you can control each one from the OMNIE Home App.



Smart Twist TRV

The OMNIE Home SmartTwist TRV simply replaces existing radiator TRVs so that you can control each radiator from the OMNIE Home App on your smartphone. These can be setup as zones and labelled as rooms to make controlling the temperature easy and convenient.

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Why compromise?

Air matters

Good air quality in the home is essential for your long-term health, especially when you consider an average person spends 90% of their time indoors, and 75% of this time at home.

A recent report stated that poor air quality was linked to more than 40,000 premature deaths in the UK every year. This is likely to affect people who live in built-up areas who experience higher levels of road traffic and subsequently harmful air pollutants. More of us are living in areas of the country which are highly polluted and will have a higher proportion of lung disease and cardiovascular problems. In addition to man-made pollutants, other particles such as bacteria, fungi and pollen can cause lung irritation and respiratory problems, especially in younger and older occupants.

Our homes offer some protection from the elements, however, we are still reliant on fresh air coming into the building through infiltration in the fabric. This approach provides limited control of the air and its quality. With this in mind, pollutants are part of our built-up environment and we need to make decisions as to how we reduce the risks within our homes and how to control the air quality.

How OMNIE can help...

Maintaining good air quality is achievable with an OMNIE comfort air system which utilises Mechanical Ventilation and Heat Recovery (MVHR). The OMNIE MVHR system has the ability to filter pollen and dust as standard, in addition to this, we have the options to provide some protection against harmful air pollutants.

The Heat Recovery Unit provides a countdown to when the filters need to be checked, ensuring that high levels of filtration are maintained. Even though the OMNIE MVHR offers some protection from pollutants and will improve air quality, no solution can provide 100% control and guarantees on air quality and prevent the associated health risks.

Humidity

With an average family producing 18 litres of water every day, regulating this humidity is possible through the OMNIE MVHR system. High levels of humidity can lead to health issues if mould occurs on cold surfaces and there is poor ventilation. One of the main benefits of the OMNIE solution is that it will extract more moisture over a longer period when compared with a conventional intermittent ventilation system.

OMNIE Ventilation system main features

- Up to 90% efficient at heat recovery
- Ability to control humidity levels within the building
- Improves air quality and reduction in some pollutants
- Regulates comfort level and provides some cooling effect with greater air movement and modulating summer bypass
- MVHR essential for low-energy building design



Benefits to end user

- Control from your smartphone
- Remote monitoring
- Easy maintenance
- Cooling option available
- Demand-based ventilation sensors

Benefits to installers

- Step-by-step start-up wizard
- Simply type in the required airflow rates
- Right and left handing can be modified on-site easily
- Simple installation process

- Outside air
- Supply air
- Extract air
- Exhaust air





How it works

Supply of fresh air

Fresh air is fed into the system via an external wall vent. The fresh outside air can optionally flow through a sub-soil heat exchanger beforehand which uses geothermal energy to pre-temper the outside air.

Ventilation unit

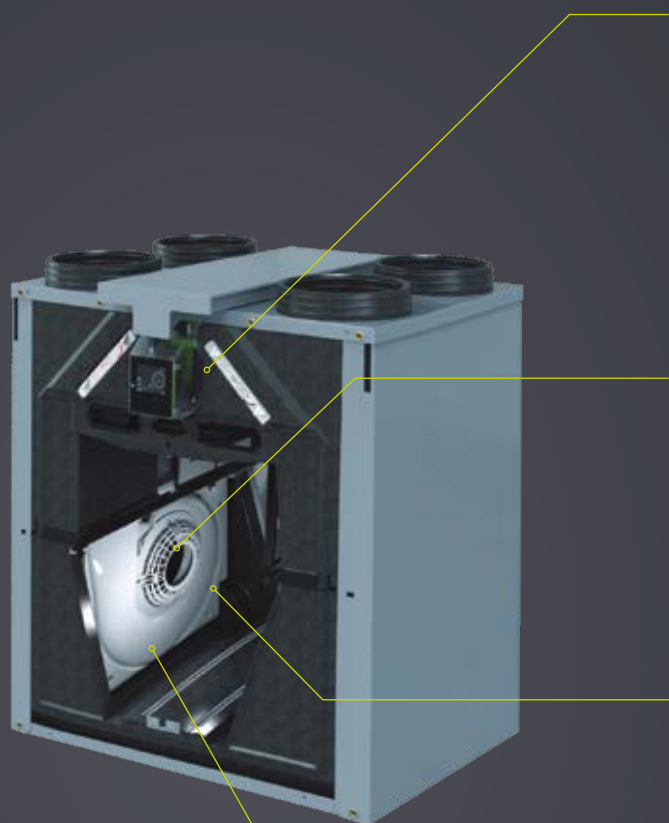
Up to 96% of the heat is recovered from the extracted air and transferred to the fresh air. This can be humidified, dehumidified, heated and cooled using optional components.

Air distribution

The air distribution system channels fresh air at the right temperature to individual rooms as needed and vents the extracted air to the outside. The air volume can be individually adjusted for each room.

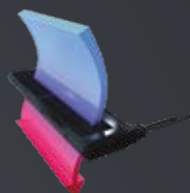
Understanding the mechanics

Heat Recovery Performance is an important factor in unit specification as it has a direct impact on the heating load and offers savings to the homeowner. When comparing two MVHR units with 87% and 94% heat recovery efficiency you can achieve up to a 25% reduction in heating costs (from ventilation loss) when selecting the higher performing unit.



25%

reduction in heating costs (from ventilation loss) when selecting the higher performing unit.



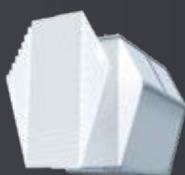
Temperature Control

The pre-heater adapts its operation taking into consideration temperature, air flow and humidity to ensure consistent supply air temperature is achieved no matter what is going on outside. Thanks to its large surface and delta shape, the level of pressure loss is negligible – and that also reduces the power consumption.



Air Volume Balancing

Innovative sensor technology Automatically ensures balanced supply air and extract air volumes. This flow control guarantees maximum heat recovery. What's more, you save time during commissioning because there is no need to adjust the speed manually and the air volumes are balanced automatically.



Heat Exchanger

The unique diamond heat exchanger features an especially large surface, which allows it to achieve a higher level of efficiency. Variable channel heights ensure a constant flow and lower pressure loss. As a result, less energy is required to overcome the air resistance.



Fan Technology

The flow grid, scroll housing and impeller ensure the best possible air flow. This guarantees not only extremely quiet operation, but also particularly low power consumption. A high-quality, future-proof solution, based on tried-and-tested technology.

Optimum indoor ventilation

The ComfoAir Q from OMNIE is the NEW generation of heat recovery ventilation units, with state-of-the-art design and intelligent technology. Regardless of whether you are working on a new-build or an old building, with OMNIE comfortable ventilation you have an innovative, tried and tested complete system.

OMNIE ventilation systems' innovative technology make for less complexity, increased heat recovery efficiency, lower specific fan power and significant noise reduction.

A perfect combination of outstanding technical performance and excellent features makes ComfoAir Q the best in class achieving top efficiency ratings.

- 3 models available – 350m³/hr, 450m³/hr and 600m³/hr
- Suitable for medium and large size properties
- All units have been certified as an official Passive House Component by the Passive House Institute
- Left- or right-hand unit configuration combined in one device for installation flexibility
- Wall mounted or free standing on mount options
- All units – dimensions 850mm (h) x 725mm (w) x 570mm (d)



Installation wizard facilitates ease of set-up

The start-up wizard guides you step by step through the set-up process including an automatic self-test. Using the design drawings you can simply type in the required airflow rates for low, medium and boost, and the system automatically sets these across the installed system.



On-site interchangeable orientation

Right and left handing can be modified on-site easily when required helping save time and money on-site and reducing risk of incorrect installations.

Outside today



Ensuring an optimum room temperature – at all times

The most important feel-good factor is comfort, through regulation of temperature and humidity. OMNIE ComfoAir Q's intelligent temperature control factors-in the varying outdoor temperature at different times of the year, to ensure ideal comfort conditions indoors.

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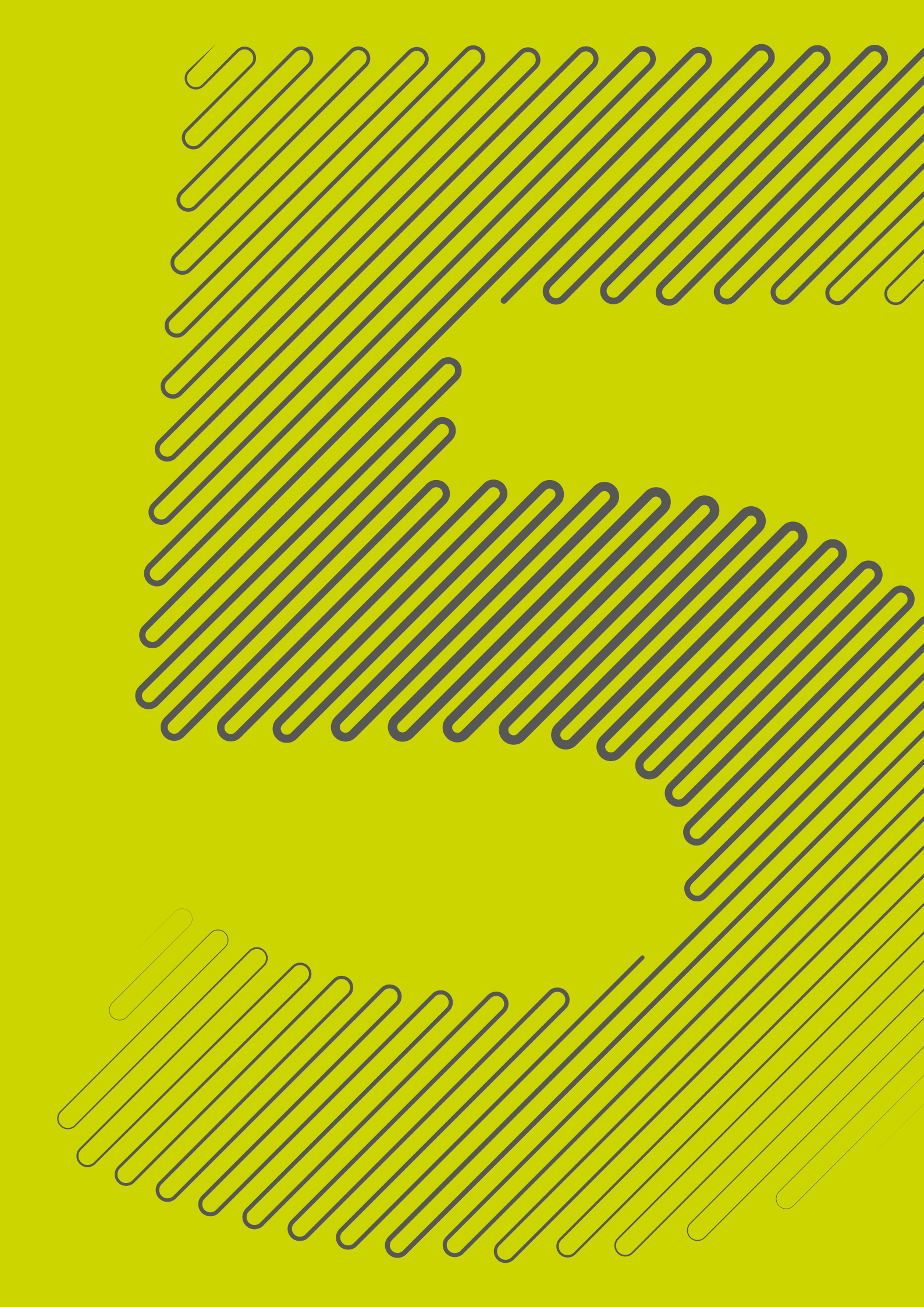
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Hot & cold made simple

Hot and cold water that is distributed from a manifold improves installation time, reduces dependency on fittings and allows easy isolation of independent systems.

Manifold distribution of hot and cold water improves installation time, long-term reliability and maintenance.

A distribution manifold allows isolation of different parts of the system whilst the rest remains operational, reducing disruption for installation and maintenance.

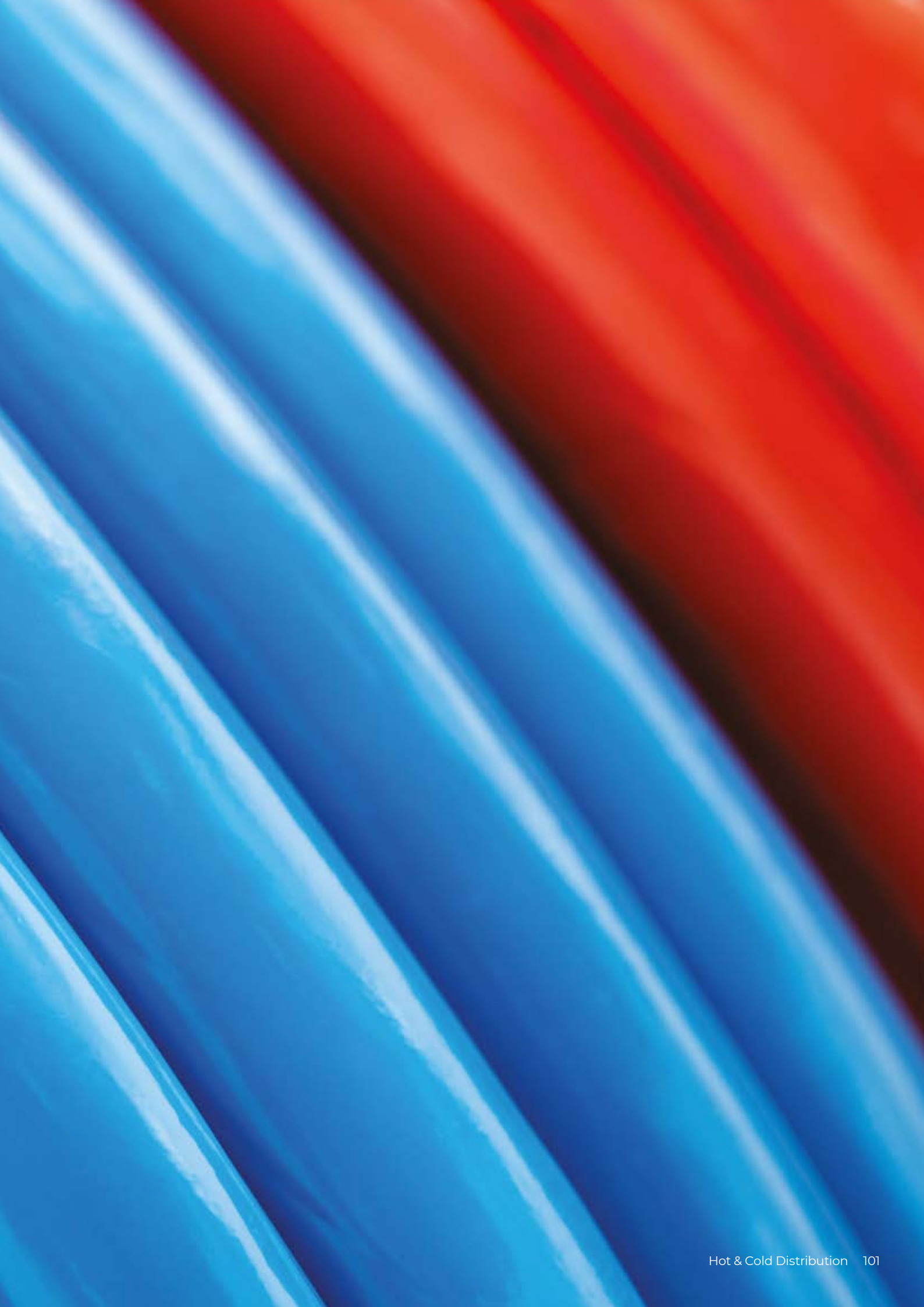
Reduced installation time of between 30%–40% can be achieved due to fewer fittings required. Virtual elimination of tees and elbows is easily achieved, therefore the chance of leaks both during and post installation is greatly reduced.

Using this type of hot and cold distribution ensures good accessibility in the event of a problem by limiting the points at which a leak could occur to the point of use and the manifold, significantly reducing the time for fault finding. All joints are above ground and are easily accessible.

Furthermore, monoblocco connectors allow you to tailor the outlet sizes for different pipe sizes going to different outlets. Optimisation of the system can be achieved by using different pipe sizes for different parts of the system, for example showers can have larger supply pipes than toilets and sinks.

Our manifolds allow the adjustment of the flow rates to individual outlets, further improving the reliability of connected fittings and eliminating the need for further fittings at point of distribution.

For maintenance purposes, an easier understanding of water system schematics is achieved. This will ensure future maintenance and repair can be carried out with minimum disruption.





Every detail engineered



Isolation and maintenance

Manifold distribution provides total or individual isolation to all hot water and cold water points in the building, with the ability to isolate parts of the system whilst the rest remains operational, therefore reducing disruption for installation and maintenance.

Manifolds can be installed in a convenient, accessible location(s).

Distribution manifolds

Nickel-plated extruded brass manifold with colour-coded isolating valves designed for plumbing systems to minimise joints and leaks.

Available in 3/4" single rails from 2 ways to 12 ways and can isolate individual circuits.

Can be mounted offset one above the other, or side by side using single or double mounting brackets or slider rail plug-in system.

Can be surface mounted or concealed in a purpose-designed plastic cabinet.

Red and blue outlet identification labels are supplied which can be marked to indicate which outlet they are serving for ease of maintenance.

The manifolds are supplied as single rails for flexibility in mounting and installation with a slider rail system, enabling the rails to be mounted either offset above one another or side by side. Pipes are connected using monoblocco fittings.

Maximum operating pressure: 10 bar
Maximum operating temperature: 110°C

Pre-insulated pipe

The pipe comes fully insulated and colour coded (red for hot, blue for cold). This padding will also reduce the risk of noise from the water supply network.

Pipe routes can be planned in advance and once securely fastened in place they are basically maintenance-free, no intermediate fittings to worry about, only fittings at either end which remain accessible with the pipe runs being fully insulated. The water is also protected against temperature loss for the hot and gain for the cold.

- WRAS approved.
- Cross-linked polyethylene inner pipe (PE-Xb).
- Bonding layer connecting the inner pipe to the aluminium pipe.
- Butt-welded aluminium pipe, thickness min 0.2mm.
- Bonding layer connecting the outer pipe to the aluminium pipe.
- Cross-linked polyethylene outer pipe (PE-Xb).



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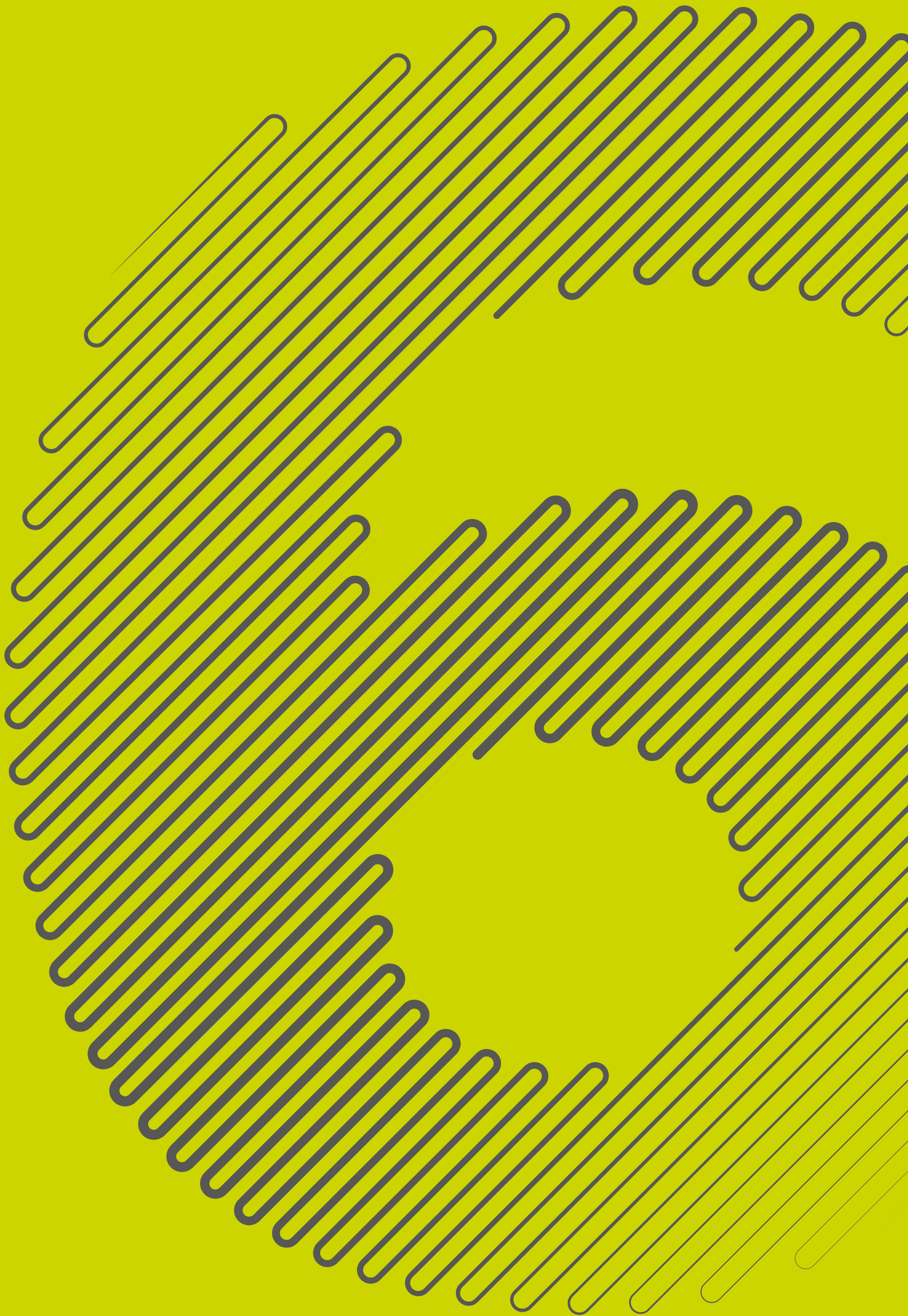
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Contact your local expert

Our local area managers are happy to help with any aspects of your project, whether you are new to underfloor heating or looking to use our products across multiple homes and buildings.

To get a quote please visit OMNIE.co.uk/quote and enter your postcode.

01392 36 36 05
projects@OMNIE.co.uk
OMNIE.co.uk

For technical help and support please call us on the number above or speak directly to your project manager or area manager.

For Developers

If you are a developer and thinking about using OMNIE products in your projects please ask to speak with our specialist team, dedicated to design and specification.



Help and support

Architects & specifiers

Up-to-date information on product specification and performance is available on our website. Please visit **OMNIE.co.uk/resources** and select the appropriate product category. You can find datasheet reference numbers for each product within this guide and the information is available both electronically or as a PDF. If you require annotated images of the products for the purposes of specification, these are also available on each product datasheet.

Information on product performance and suitability can be supplied by our projects team who are available via our technical support line – 01392 36 36 05. Alternatively please speak to your local area manager who will happily talk you through our product range and also arrange for samples as you may require.

If you need information on complex constructions such as those with specific acoustic properties, or you have a specialist requirement that is not covered by our standard product range please call 01392 36 36 05.

For end users

If you are an end user and would like help using your OMNIE underfloor heating system, a range of user guides are available on our website **OMNIE.co.uk**

Alternatively please give us a call on 01392 36 36 05 and we can arrange for a guide to be sent to you.

Installers & heating professionals

We recommend that you order our products directly through us so that you obtain the most appropriate system and performance specification for the project.

To get a quote please visit [OMNIE.co.uk/quote](https://www.omnie.co.uk/quote) and enter your postcode or call 01392 36 36 05

Detailed installation instructions and a layout plan of the system is included in every system that gets dispatched to site. If you require any additional information at the time of installation we recommend you visit our resources library on our website. This can be accessed directly by visiting **OMNIE.co.uk/resources**

Simply select the product group required and view the install guide on your mobile device. You can also download and print install guides directly from the website by clicking on the download icon.

Self builders & home owners

We recommend that you order your OMNIE underfloor heating system in conjunction with an installer, heating professional or architect.

To get a quote please visit [OMNIE.co.uk/quote](https://www.omnie.co.uk/quote) and enter your postcode.

We have a range of information available to self builders and home owners who are looking to install an OMNIE underfloor heating system in their home or extension. Information on all our products including the suitability of our systems for different floor constructions can be found on our website. Alternatively, we recommend you contact your local OMNIE Expert who will be able to advise on the best system for your project.

If you have already ordered an OMNIE underfloor heating system, your system pack will include instructions on installation along with a plan of the system and details on commissioning and setting up the system. We recommend that a professional plumbing and heating engineer is appointed to fit and commission all of our underfloor heating products.

If you have hired an installer to fit an already specified system, an installation guide and manifold balancing and commissioning instructions will be included in your system pack, along with the plans for the pipe layout.

Common questions

Is my property suitable for underfloor heating?

Underfloor heating can be used in any property. Just like any other heating system, the heat output from the floor should be sufficient to satisfy the building heat losses.

How much does it cost to run an underfloor heating system?

The running costs will depend on the heat losses from the house. However, an underfloor heating system that is designed correctly – especially when used with renewables – will be cheaper to run compared to radiators.

How do I maintain my underfloor heating system?

Underfloor heating requires very little maintenance. The manifold contains all the moving parts, such as pump and zone valves, and these will need to be from time to time.

How fast does an underfloor heating system warm-up?

The speed at which an underfloor heating system works is dependent on the thermal mass of the floor and the design of the system. High thermal mass floors, such as concrete floors, will take longer to heat up. Also, if the underfloor heating system has a high heat output it will have a faster warm-up time.

Can I have underfloor heating upstairs?

Underfloor heating is straightforward in a concrete screed floor. However, timber first-floor constructions require the right products for the system to be effective. OMNIE has developed a comprehensive range of underfloor heating products for timber first floor constructions.

RIBA-approved CPD courses



Using underfloor heating effectively

The training explains the science behind how UFH and radiators work, and how this relates to new design principles. It describes the constituent elements of any UFH system and how these inter-relate.

Installer training courses

Heat Pump training courses take place at the OMNIE head office in Exeter.

Speak to an OMNIE advisor today and book your place on our next course.

Join the conversation

- facebook.com/OMNIEUFH
- twitter.com/OMNIEuk
- linkedin.com/omnie
- OMNIE.co.uk

Contact

For help & support assistance please visit OMNIE.co.uk or call us on 01392 36 36 05

- Chat online with an expert
- Browse the knowledge base
- Raise support queries

Starting your project

We can provide advice from the very beginning of the project through to after-sales care and support.

Obtaining a quote and specification

To get a quote, simply email your plans to us or use the online facility on the OMNIE website. When sending in your plans please provide details of the floor construction, the floor finishes and the type of heat source. We would also like to know the insulation levels and glazing type. If it is a new-build then simply state "built to current regs".

Placing an order

Orders can be placed through your local OMNIE expert. They will need to know when the goods are required and the site address. We will then produce a design for approval. Once agreed, the materials will be dispatched and sent to site as required.

Servicing and commissioning

Servicing can make sure an OMNIE system works as it is meant to throughout its life. Our team of engineers are available to troubleshoot or to provide regular servicing visits.

Contact an expert

Your local OMNIE expert is ready to help you start your project. To find out more, visit [OMNIE.co.uk](https://www.omnie.co.uk) and enter your postcode.

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[OMNIE.co.uk](https://www.OMNIE.co.uk)





