

# UHMA

THE TRADE ASSOCIATION FOR SURFACE HEATING & COOLING

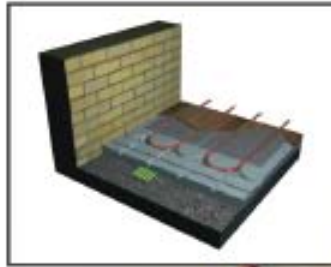


Energy efficient by design

SPONSORED BY  
**Uponor**  
[www.uponor.co.uk](http://www.uponor.co.uk)

# The other Italian Job

Twisting and turning below the surface is fine, when you've the right means. Ask the thousands of specifiers across the world who trust Giacomini to see the job swiftly done. Often putting the whole system into our safe hands, from design to completion.



- We manufacture it, design it and then install it
- Single point responsibility for the whole system
- Pipework guaranteed for 50 years
- Brass components guaranteed for 10 years
- Full technical assistance at every stage

So for truly complete installations put yourself in the driving seat with Giacomini.



Set off in the right direction at our **NEW updated website** [www.giacomini.co.uk](http://www.giacomini.co.uk) or call 01454 311012 for an information pack

**GIACOMINI**   
*Technology in Comfort*

T O T A L   U N D E R F L O O R   H E A T I N G   S O L U T I O N S

# UHMA: RAISING THE STANDARD

Underfloor Heating is now accepted as part of the mainstream of the UK Building Services industry and is a standard solution for many types of project. In the commercial and public sectors this includes offices, hospitals and schools while in the domestic market success with self-builders is now matched by a healthy demand from developers, builders and installers working on all types of homes.

Demand has been accelerated by the new emphasis on designing low carbon heating systems many of which depend on renewable energy sources.

# UHMA

THE TRADE ASSOCIATION FOR  
SURFACE HEATING & COOLING

Whatever the heat source – be it heat pump, bio-mass boiler or conventional condensing boiler – one thing is certain; systems now have to function efficiently at lower temperatures. Underfloor heating offers the only practical form of low temperature heat emitter for all applications from individual homes to schools and offices, hospitals and other large public buildings.

Underfloor heating is but one branch of the low temperature radiant technology which is now extending into cooling.

## Highest standards

But how are you to select the right system? How do you pick out reliable products from a bewildering array of types – and prices?

UHMA was formed in 1996 to promote the highest possible standards of materials and system design and application.

The aims of UHMA are clear and simple, the Association seeks to ensure that the underfloor heating industry is technically sound, with systems based on field proven

materials and professional standards of design and installation.

Full Membership of UHMA is open to organisations, which manufacture and distribute radiant floor heating systems and components. There's an obvious and powerful advantage in bringing together system creators with the suppliers of the products that combine to make them.

Insisting on UHMA branded products will give you quality you can rely on today and tomorrow.

At the end of 2009 UHMA adopted a new name UHMA: The Trade Association for Surface Heating and Cooling – to reflect the evolving world of energy efficiency.

In anticipation of changes still to come UHMA has an active voice in the committees that draft new British and European Standards affecting the design, materials and installation of surface heating and cooling systems. Through our links with Eu-Ray (our European equivalent) we play a similar role on the international scene. If there are changes in the pipeline UHMA members will be the first to know.

UHMA has established working links with other key trade bodies including the Heat Pump Association, The Ground Source Heat Pump Association, the



Chris Ingram,  
Chairman  
UHMA

Builders Merchants' Federation and the Heating and Hot Water Industry Council.

We've also taken steps to ensure that the demand for training in underfloor heating design and installation is finally being satisfied. Already well over 200 trainees have taken the special two-day course, which was developed under the auspices of BPEC in liaison with SummitSkills and UHMA.

Less visible, but just as vital is the work done by our information service. Every year we deal with hundreds of calls from professionals to home owners – consulting engineers to housewives – all looking for some advice and guidance.

UHMA is now the nation's first port of call for information on this technology.

## MEMBERSHIP OF UHMA

Membership of UHMA is open to any company, organisation or individual that is involved in surface heating and cooling subject to meeting the criteria for each relevant membership category.

**Full Member.** For companies that are involved in one or more of the following, and meet the relevant criteria: manufacturing, component supply, system design, system supply, installation, training provider.

**Associate Member.** For companies or organisations that do not have a direct involvement in the industry, but who wish to be associated with

UHMA, for example other Trade Associations.

**Recognised Installer / Designer.** Two separate categories for individuals who have successfully completed a UHMA Approved training course.

**Honorary Life Member.** For individuals that UHMA wish to recognise for their contribution to UHMA or the industry in general.

The criteria for membership have been designed to ensure that, by using a UHMA member, buyers and specifiers will have the peace-of-mind assurance that they are dealing with reputable companies and individuals.

# Independent Merchants Can Provide a Specialist Underfloor Heating Service.

*By Keith Westcott, Managing Director Evenheat Ltd*

I first experienced the benefits of dealing with a local independent merchant when I was a young plumbing and heating apprentice. During the seven years that I spent "on the tools", the helpful staff at the local trade counter came to my rescue on many occasions. They also sympathised with my complaints that the most awkward jobs were always in the most inaccessible places, often at the back of an airing cupboard! After I'd retrieved the lady of the house's lost smalls from the fluff ball behind the cylinder, I'd be left with tricky problems to solve like connecting to the existing lead or galvanised pipe.

At the trade counter they knew what I was likely to need by way of a concoction of imperial and metric fittings to join new parts to old systems, and took the time to explain some tricks of the trade that I might find useful.



There was a time when underfloor heating was less widely adopted and something that you had to seek out from a specialist supplier - a bit like the position that renewable energy sources are in today. Now that underfloor heating is becoming more main stream, it is something that all merchants need to have available through their trade counters. Provided that they are backed by a specialist supplier to undertake the system



Calling on that same merchant today, now in my capacity as the M.D. of Evenheat (one of the longest established independent underfloor heating specialists), I still see some of the same faces that I grew up with in the industry. However, these days the old counter staff have become managers and some of my fellow apprentices are successfully running their own heating businesses. Through all the changes, the trade counter still remains a vital hub for the local plumbing and heating businesses. This is one of the reasons behind my decision to merge Comfort Zone, a merchant based business with 15 years underfloor heating experience with Evenheat to form one of the most experienced Merchant Only underfloor heating companies in the UK.

design and provide technical support direct to installer, then the friendly local trade counter should be considered as a great place to go for underfloor heating supplies.

***Why not "keep it local" and support your independent merchant?***

 **evenheat°**

**Evenheat Ltd**

Compton House, Wildmere Road, Banbury, Oxon OX16 3JU

Tel: 01295 277881 Fax: 01295 277556

e-mail: [enquiries@evenheat.info](mailto:enquiries@evenheat.info)

website: [www.evenheat.info](http://www.evenheat.info)

# TRAINING FOR THE FUTURE

The UK market for underfloor heating continues to grow and demand for professionals with the necessary design and installation skills has never been higher.

The UHMA approved SummitSkills training course in underfloor heating design and installation which was developed under the auspices of BPEC in liaison with SummitSkills is already a major success.

## Professionals

Designed for professionals who already have NVQ2/ NVQ3 level skills in plumbing and heating, the new course comprises two modules based around wet systems to EN1264. Total time for both design and installation modules is three days.



Now a second training course has been specially developed by Logic Certification.

“Logic Certification is a leading training provider within the building services sector.



UHMA has monitored development of the programme’s technical content.

The new course reflects their experience and quality approach and we look forward to seeing it rolled out across the country.”

Announcing official recognition of the resulting course UHMA Chairman Chris Ingram welcomed a valuable addition to the industry’s training options.

The 2-3 day course developed by Logic Certification offers heating engineers a chance to add to their underfloor heating skills with modules covering installation and commissioning and the key issue of design.

## A COMMON PATH TO TECHNICAL EXCELLENCE

UHMA’s technical committee absorbs inputs from a wide range of sources to develop a common solution to many frequent queries such as the best way to combine underfloor heating with heat pumps, or whether pipe joints beneath the floor are acceptable.

From time to time the Association also carries our research into technical matters affecting the whole industry.

For example, a UHMA-devised test programme carried out by BSRIA on the effect of carpets established, once and for all, that the old 1.5 Tog maximum is too low. In fact, carpets and underlays with a combined Tog rating of 2.5 can be safely used without impairing heating efficiency.

Some combinations - such as high quality Axminsters and sponge rubber underlays - will perform perfectly well, despite having even higher Tog ratings.

Now analysed and collated, the test results provide UHMA Members with vital design data.

### Most exhaustive research

The tests - which constitute the most

exhaustive research into the subject ever - were carried out in liaison with The Carpet Foundation and BSRIA engineers in a test room built to the requirements of BS EN 442-2:1997. An underfloor heating system topped with a 22mm floating chipboard deck was constructed in the room with sensors and measuring devices configured in such a way as to effectively create “single-plate” test conditions.



## Raising the profile

UHMA plays an active role in raising the profile of surface heating and cooling. It’s our mission to lobby government at local and national level to ensure recognition of the huge part this technology can play in cutting the nation’s carbon bill.

Earlier in 2010 UHMA Chairman Chris Ingram spoke at the Builders Merchants’ Conference about a major new UHMA initiative aimed at training all counter staff in making the most of renewable energy in association with underfloor heating.

February saw UHMA’s first every exhibition display at the HEVAR Show in Manchester, with the Association also running the UK’s first major seminar on underfloor heating.

In the Spring UHMA is to host a visit by Professor Bjarne Olesen, widely acknowledged as one of the world’s leading experts on underfloor heating and the man who claims it offers the “best solution in every case.”

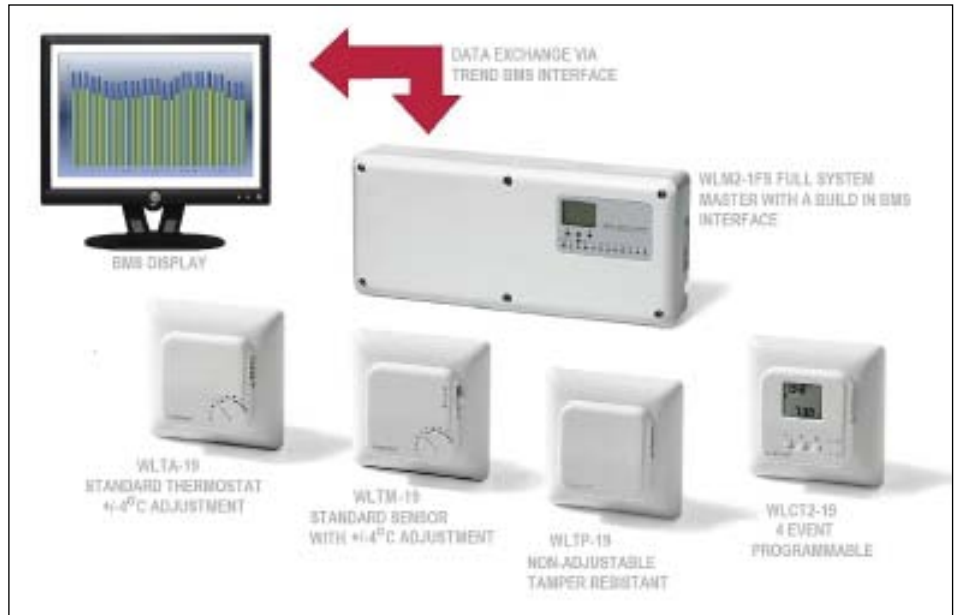
# 'Underfloor Heating Control the OJ ELECTRONICS Way.....'

Not so long ago underfloor heating was deemed a luxury and commanded a premium price, today underfloor heating becomes an available option to us all. The OJ controls system allows a cost effective solution coupled with reliability, intuitive design and quality second to none.

OJ Electronics have a wealth of knowledge in the industry for providing not only a heating solution but a heating & cooling solution to the customer.

With over 40 years of experience in manufacturing OJ Electronics A/S based in Sonderborg Denmark has a superb hi-tech manufacturing facility that provides direction and focus to market. Combine this with a dedicated team of research & development engineers for constant product design and development we ensure a customer satisfied solution.

OJ Electronics over the years have moved towards providing a cost effective solution to the supply of



used to optimise the key areas for precise temperature control at the most economical and optimised solution with minimum energy requirement. Having the data relayed back to a computer front

end system where not only can we view the data of the underfloor heating control and sensor values we can write to the associated controller with new and or changed data as per the room requirements dictate at the time – hence cost savings can be made by reducing a non occupied space by several degrees at the touch of a key stroke. This obviously results in a lower demand

for energy and efficiency can be maximised.

### Sensors With Synergy and Style

The sensors manufactured by OJ Electronics Denmark has a level of accuracy to +/- 0.5 deg C. Combine this with the intelligent Waterline WLM2 Hydronic controller that has proportional & integral control

philosophy we maximise control accuracy and minimise energy demand.

### Wiring is So Simple ....

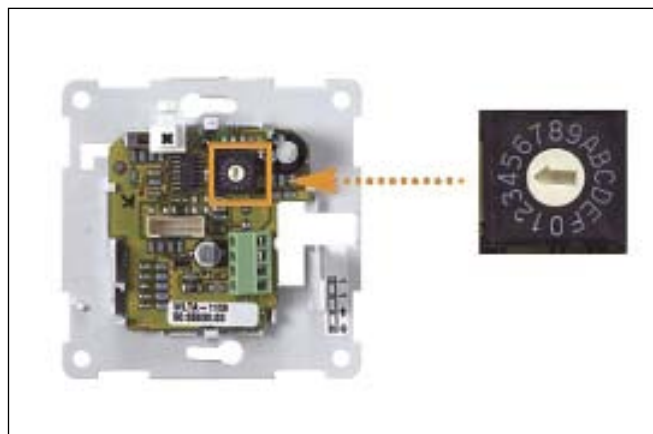
All sensors are networked onto a +5v Bus system. This means that by using a CAT5 cable linking from one sensor to another its ease of wiring is a breeze and maximises cost savings on cable and installation time.

### Commissioning & Setup - Simplicity Itself

The design of the controller from a basic master to an add on extension module to a Full BMS master controller the system setup and commissioning could not be easier. The setting up of each sensor via a simple rotary base mount PCB switch to the dedicated output on the controller keeps everything simple.

### OJ Deliver The Whole Process On Controls

The whole process from design, manufacture, delivery, technical support, training, quality, installation, commissioning and handover is the whole process of our product not just the product itself.



underfloor heating controls both Hydronic and electric to the UK and world wide market.

### The Waterline Hydronic Controller Has a Voice ....

With the key focus on having a green solution in this age of energy efficiency we direct our attention to a control system that can interface with the technology of today, Building management systems. OJ Electronics have the intelligent underfloor controller for buildings of today.

### OJ Electronics Talks To Trend ....

OJ Electronics have the solution. Our WLM2 Hydronic controller and associated sensors can interface with an onsite BMS system. This will allow graphs to be plotted of how the room is performing against its relevant set point. This level of constant monitoring can be

**FOR AN OPTIMISED ENERGY EFFICIENT HEATING & COOLING SOLUTION THE WAY FORWARD WITH UNDERFLOOR CONTROLS IS WITH OJ ELECTRONICS – TAKING COMFORT FURTHER WE UNDERSTAND YOUR NEEDS.**



**OJ Electronics Ltd**  
 Crusader House, Crusader Park  
 Warminster, Wiltshire. BA12 8SP  
 Tel : +44 (0)1985 213003  
 www.ojuk.co.uk  
 www.sales@ojuk.co.uk

# Robbens Systems - Underfloor Heating

## *The name you know and trust*



### Long Established and Experienced

Robbens Systems have been at the forefront of the UK underfloor heating market for more than 15 years, developing state of the art design methods and products to add to their high levels of function and reliability. Through supplying thousands of domestic and commercial projects, Robbens have gained an intimate knowledge of building methods and the information/service needs of clients, matching their services to these specific needs. Through excellent products, high levels of customer service and responsible trading, Robbens have continued to delight their customers.

Since the year 2004 Robbens Systems has been a part of FRÄNKISCHE, a leading European manufacturer of domestic and industrial pipes. Robbens attach great importance in offering a high quality multi layer pipe for all of their warm water underfloor heating systems.



### High Quality Multi-layer Pipes

Multi-layer composite pipes consist of five layers. The inside and outside layers are made of plastic tightly bonded with special adhesive to the mid-layer of an aluminum core.

The benefits are obvious: Multi-layer composite pipes feature excellent flow properties, are 100 % oxygen tight and are highly resistant to incrustation, thanks to their superior chemical resistance. Furthermore, FRÄNKISCHE has only manufactured butt-welded pipes since they began manufacturing multi-layer composite pipes. If this production method is applied, the thickness of the aluminum layer is almost the same at any point on the diameter of the pipe and there is no seam thickening. When the pipe is bent, the same forces exist consistently throughout the pipe.

The pipes for Robbens underfloor heating systems are made to the highest performance standard under exacting quality control regimes. When dealing with Robbens Systems, you can trust in the knowledge that the pipe used is from a trusted source and carries no risk of supply chain breakdown.

### Heating Comfort and Geo Thermal

Robbens offers systems for all floor construction methods and floor finishes – including solid and timber. Solid floors are suitable for a wide range of floor coverings and give the greatest output. Timber Floor Systems are lightweight construction methods that have been developed for first floor and refurbishment uses, as well as for timber floor finishes.

With board mounted, pre-assembled manifolds, customized installation manuals and detailed pipe layout drawings, any heating engineer or practical person can install one of the systems. The Robbens attention to detail extends to their System Controls which are easy to install and wire up, as well as easy to set and use. The control system ensures maximum fuel efficiency, controls the system water temperature and operates heat source as needed.

Heat pumps, solar energy, condensing boilers and thermal stores can easily be integrated giving optimum energy efficiency. Preassembled bespoke manifolds are designed in house to provide the underfloor heating with separate water temperatures, ideal for projects with multiple floor structures or renewable energies.

### Customer Care and Support

Through excellent products, high level of customer service, and responsible trading, Robbens will continue to



make and maintain lasting customer relationships. Proven technology together with highly qualified staff and top quality service will make your project now and in the future a resounding success.

---

#### Robbens Systems Ltd

69 Castleham Road, St. Leonards-on-Sea,  
East Sussex, TN38 9NU

Phone: 01424 851111 Fax: 01424 851135

Email: [robbens@underfloorheating.co.uk](mailto:robbens@underfloorheating.co.uk)

Web: [www.underfloorheating.co.uk](http://www.underfloorheating.co.uk)

# UHMA Members



**Begetube UK Limited**  
9 Carsegate Road South, Inverness, IV3 8LL  
Tel: 01463 246600 Fax: 01463 246624  
e-mail: info@begetube.co.uk  
website: www.begetube.co.uk



**Capricorn Sp z.o.o.**  
Cierne 11, 58-160 Swiebodzice, Poland  
Tel: +48 74 8503 554 Fax: +48 74 8503 535  
e-mail: sales@capricorn.pl  
website: www.capricorn.pl



**Continental Underfloor Heating**  
Continental House, Kings Hill, Bude, Cornwall, EX23 0LU  
Tel: 0845 108 7001 Fax: 0845 108 7011  
e-mail: info@continental-ufh.co.uk  
website: www.continental-ufh.co.uk

**Continental are known for their friendly expert advice and attention to detail (proven in over 10,000 designs), making it easy for plumbers and builders. Detailed quotes can be provided within 72 hours, and systems are supplied on a next-day basis. Continental systems use AluPex or PEX pipe, well-proven manifolds, and a wide range of controls from simple rotary-dial to fully fledged BMS systems. The Continental Training programme offers a range of fully-accredited courses nationwide.**



**Eco Hometec (UK) Ltd.**  
Unit 11E Cadcroft Enterprise Park, Carcroft, Doncaster South Yorkshire DN6 8DD  
Tel: 01302 722266 Fax: 01302 728634  
e-mail: sales@eco-hometec.co.uk  
website: www.eco-hometec.co.uk



**Emmeti (UK) Limited**  
6 Tannery Yard, Witney Street, Burford, Oxon, OX18 4DW  
Tel: 01993 824 900 Fax: 01993 824 990  
e-mail: sales@emmeti.co.uk  
website: www.emmeti.co.uk



**Encompas Limited**  
Warwick Mill Business Centre, Warwick Bridge, Carlisle, Cumbria, CA4 8RR  
Tel: 0845 6313000 Fax: 0845 6313333  
e-mail: info@encompas.co.uk  
website: www.encompas.co.uk

**Encompas Limited offers the complete package of design, supply and if required installation of quality underfloor heating, heat pumps and solar panel systems as well as insulation and screed.**

**From concept to commission, Encompas delivers an unrivalled level of expertise and after-care service assuring their clients of best practice in energy efficiency and cost savings from their system.**

**Our accreditations include the Microgeneration Certification Scheme (MCS), members of the Heat Pump Association (HPA) and the Underfloor Heating Manufacturers Association (UHMA)**



**Evenheat Limited**  
Compton House, Wildmere Road, Banbury, Oxon, OX16 3JU  
Tel: 01295 277881 Fax: 01295 277556  
e-mail: enquiries@evenheat.info  
website: www.evenheat.info



**Flexel International Limited**  
Flemington Road, Queensway Industrial Estate, Glenrothes, Fife, KY7 5QF  
Tel: 01592 757 313 Fax: 1592 754 535  
e-mail: sales@flexel.co.uk  
website: www.flexel.co.uk



**Flowcrete UK Limited**  
Flowcrete Technology Centre, Booth Lane, Moston, Sandbach, Cheshire, CW11 3QF  
Tel: 01270 753 753 Fax: 01270 753333  
e-mail: isowarm@flowcrete.com  
website: www.flowcrete.com



**Flowmax Group Limited**  
Claremont House, 70-72 Alma Road, Windsor, Berks, SL4 3EZ  
Tel: 01753 867012 Fax: 01753 830855  
e-mail: enquiries@flowmax.co.uk  
website: www.flowmax.co.uk



**Giacomini Sales (UK) Limited**  
Unit 3 Goodrich Close, Westerleigh Business Park, Yate, South Gloucestershire, BS37 5YS  
Tel: 01454-311012 Fax: 01454-316345  
e-mail: enquiries@giacomini.co.uk  
website: www.giacomini.co.uk



**ITT Lowara**

**ITT Lowara UK Limited**  
Millwey Rise Industrial Estate, Axminster, Devon EX13 5HU  
Tel: 01297 630230 Fax: 01297 630270  
e-mail: lowarauk@itt.com  
website: www.lowara.co.uk



**John Guest Speedfit Limited**  
Horton Road, West Drayton, Middlesex, UB7 8JR  
Tel: 01249 766910 Fax: 01249 766929  
e-mail: ufh@johnguest.co.uk  
website: www.johnguest.com



**Kestrin Limited**  
Landmark House, 75 Station Road, Horsham, West Sussex, RH13 5EX  
Tel: 01403 756777 Fax: 01403 756888  
e-mail: info@kestrin.co.uk  
website: www.kestrin.co.uk



**Maincor Limited**  
Leicester Road, Lutterworth, Leicester, Leicestershire, LE17 4NJ  
Tel: 01455 555930 Fax: 01455 555931  
e-mail: enquiries@maincor.co.uk  
website: www.maincor.co.uk

**Maincor manufacture high quality underfloor heating systems in both multilayer and simple plastic pipes. It offers systems for a whole range of projects from small residential to large commercial and industrial.**

**Maincor Ltd is part of the Maincor Plastics and Plastic Machinery Group; listed as one of Germany's top 100 innovators.**

**Maincor also manufactures and distributes a range of innovative plumbing and radiator connection systems to compliment its underfloor heating.**

**Maincor: Pipe Systems, Design Service, Technical Support, First Class Supply Chain**



**Myson Underfloor**  
Eastern Avenue, Team Valley, Gateshead, Tyne & Wear, NE11 0PG  
Tel: 0191 4917596 Fax: 0191 4917465  
e-mail: underfloor@myson.co.uk  
website: www.myson.co.uk



**Nu-Heat UK Limited**  
Heathpark House, Devonshire Road, Heathpark Ind Est, Honiton, Devon, EX14 1SD  
Tel: 01404 549770 Fax: 01404 549771  
e-mail: info@nu-heat.co.uk  
website: www.nu-heat.co.uk



**OJ Electronics Limited**  
Crusader House, Crusader Business Park, Roman Way, Warminster, Wilts BA12 8SP  
Tel: 01985 213 003 Fax: 01985 213 310  
e-mail: sales@ojuk.co.uk  
website: www.ojuk.co.uk



**Pipe 2000 Limited**  
3 Kelvin Road, Manor Trading Estate, Benfleet, Essex, SS7 4QB  
Tel: 01268 759567 Fax: 01268 569932  
e-mail: pipe@pipe2000.co.uk  
website: www.pipe2000.co.uk



**Polypipe Limited**  
Broomhouse Lane, Edlington, Doncaster, DN12 1ES  
Tel: 01709 770000 Fax: 01709 770001  
website: www.ufch.com





**Rehau Limited**  
Hill Court, Walford, Ross-on-Wye,  
Herefordshire HR9 5QN  
Tel: 01989 762600 Fax: 01989 762601  
e-mail: enquiries@rehau.com  
website: www.rehau.co.uk

**REHAU's Underfloor heating and cooling system offers complete peace of mind for installers, contractors and clients, proven across both public and private sectors.**

**Full traceability of pipe, a permanent DZR leak-free joint system and fully consequential warranty make it the preferred choice where quality and long term durability really matter.**

**Now with BMS plug and play capability from REHAU's "Intelligent controls", we have the range and scope of products you need.**

**Speak to us to learn why we are the perfect partner for energy efficient building solutions.**



**Reliance Water Controls Limited**  
Worcester Road, Evesham,  
Worcestershire, WR11 4RA  
Tel: 01386 47148 Fax: 0800 389 5932  
e-mail: sales@rwc.co.uk  
website: www.rwc.co.uk



**Robbens Systems Limited**  
69 Castleham Road, St. Leonards-on-sea,  
East Sussex, TN38 9NU  
Tel: 01424 851111 Fax: 01424 851135  
e-mail: robbens@underfloorheating.co.uk  
website: www.underfloorheating.co.uk

**Outstanding underfloor heating systems and unrivalled support for Installers and Home Builders. Robbens offers systems for all floor construction methods and floor finishes – including timber. The system components perform to the highest standards of life and function and are simple to install.**

**Proven technology together with more than 15 year experience in the UK underfloor heating market, high qualified staff and top quality service make your project to a resounding success. Packages include free quotations, technical support, manuals, layout drawings and wiring diagrams.**



**Schluter-Systems Limited**  
Units 4-6 Bardon 22, Beveridge Lane,  
Coalville, Leics LE67 1TE  
Tel: 01530 813396 Fax: 01530 813376  
e-mail: bekotec-therm@schluter.co.uk  
website: www.bekotec-therm.co.uk

**Schlüter®-BEKOTEC-THERM is a fully guaranteed modular heating system, which offers quick reacting radiant heated floors with an even distribution of low temperature heat. Low construction height offers savings of material and weight, quicker regulation of the floor temperature, shorter construction times and a screed construction with low tension. Traditional problems usually associated with radiant heated assemblies are prevented due to the unique design of the modular screed system. We provide a complete service from design through to after sales support.**



**Thermoboard**  
The Dart Building, Grenadier Road,  
Exeter Business Park, Exeter, Devon, EX1 3QF  
Tel: 01392 444122 Fax: 01392 444135  
e-mail: info@osmaufh.co.uk  
website: www.osmaufh.co.uk

**Thermoboard offers a range of underfloor heating (UFH) solutions to suit a wide range of project requirements and all types of floor construction. Our products have been designed to provide the highest possible heating performance while using materials that will last throughout the life of the building.**

**Thermoboard is supported by a dedicated team of UFH specialists. Instant on-line quotes for straight-forward projects via Thermoboard QuickCalc are available as well as support for more complex projects with Thermoboard FullSpec, including a dedicated project manager at the end of the phone.**

**Thermoboard is a brand of Wavin.**



**UK.Thermocable FE Limited**  
Pasture Lane, Clayton, Bradford,  
West Yorkshire, BD14 6LU  
Tel: 01274 882359 Fax: 01274 882229  
e-mail: info@thermocable.com  
website: www.thermocable.com



**UFH-direct.co.uk**  
Thorn Farm, Kings Hill, Bude  
Cornwall EX23 0LU  
Tel: 0845 009 2135 Fax: 0845 009 3796  
Email: info@ufh-direct.co.uk  
Web: www.ufh-direct.co.uk



**Underfloor Heating Supplies Limited**  
Unit 24/25 Rowland Way, Hoo Farm Ind. Est.,  
Kidderminster, Worcs., DX11 7RA  
Tel: 01562 825555 Fax: 01562 825571  
e-mail: ufh@komfort-ufh.co.uk  
website: www.komfort-ufh.co.uk



**Uponor Limited**  
Snapethorpe House, Rugby Road, Lutterworth,  
Leicestershire, LE17 4HN  
Tel: 01455 550355 Fax: 01455 550366  
e-mail: enquiries.uk@uponor.com  
website: www.uponor.co.uk

**Uponor is a leading international provider of plumbing and indoor climate systems for the residential and commercial building markets, designing systems for over 25 years. Its solutions play an important role in people's lives by providing products that create a comfortable setting for living, work and leisure.**

**Uponor offer a broad variety of radiant heating, cooling and flexible plumbing solutions, providing maximum comfort for the user, high energy-efficiency, and the best possibilities for taking advantage of environmentally sound renewable energies.**



**Warmafloor (GB) Limited**  
Concorde House, Concorde Way  
Segensworth North, Southampton,  
Hants PO15 5RL  
Tel: 01489 581787 Fax: 01489 576444  
e-mail: sales@warmafloor.co.uk  
website: http://www.warmafloor.co.uk

**Warmafloor GB limited is Britain's leading Underfloor Heating and Cooling Specialist with a track record spanning over 20 years. The company's systems provide energy efficient solutions to many of the country's high profile buildings from major industrial and leisure installations, to government offices, museums, schools and luxury homes.**

**The company's systems benefit from extensive development work undertaken in association with leading independent consultants and research facilities, to deliver reliable, cost effective solutions that reflect today's demand for sustainable construction.**

**The company has unrivalled experiences with modern renewable low energy systems**



**Warmup Plc**  
702 Tudor Estate, Abbey Road,  
London, NW10 7UW  
Tel: 0845 345 2288 Fax: 0845 345 2299  
e-mail: uk@warmup.com  
website: www.warmup.co.uk



**Watts Industries UH Limited**  
Enterprise Way, Evesham, Worcs WR11 1GA  
Tel: 01386 446997 Fax: 01386 41923  
e-mail: sales@wattsindustries.co.uk  
website: www.wattsindustries.com

*Information correct at the time of going to press.  
For a full listing of UHMA Membership go to  
www.uhma.org.uk*

# Heating Made Simple<sup>®</sup>



**C**ontinental Underfloor Heating design and supply warm-water underfloor heating systems across the UK for projects ranging from house extensions to large-scale commercial projects. The company's motto is "Heating made simple", and that is exactly what their customers get.

## Expert advice on hand

A quick phone call to Continental or a click on their website (0845 108 7001) is all it takes to get friendly expert advice from what is probably the largest team of trained Technical Sales Advisors in the industry. Whether the question is about retro-fitting a system into a Victorian terrace house, or how to integrate the system with a heat pump, the team at Continental will be able to provide the answer.

## Your choice

Continental has the largest range of systems in the UK. If you want AluPEX pipe, they have it. If you prefer PEX pipe they have that too. The manifolds and mixers come in a range of configurations to suit any project, and the controls can be as complicated or as simple as you or your customer want – fully-fledged remote internet control or simple rotary dial room thermostats.

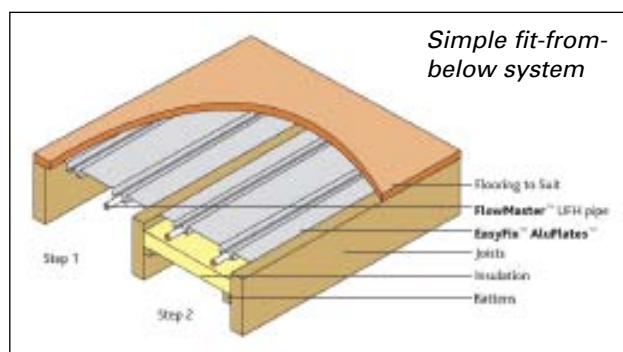
through to 100mm centres for high-output with heat pumps. All available for fit-from-above or fit-from-below.



Continental's BPEC accredited training

No matter what the floor construction, Continental have a system to suit, from solid floors with screed, through to plated systems for floating floors or where minimal height increase is possible.

And to avoid time-consuming cutting of aluminium panels on-site, all our plates are supplied with the patented QuickSnap™ feature, so all it takes is seconds to reduce the size of the plate.



## First floor solutions

First floors are where most problems with UFH occur, with difficult and expensive to fit systems usually being proposed. At Continental we have a wide range of

And when the installer is on-site, fitting the system, a quick call is all it takes to solve any problems: no waiting in a call-handling system, no answer phones, and no promises of a "call back" that never happens.

first floor system, for fitting from above or below.

Our aluminium plate systems offer the widest choice of pipe spacings from 200mm centres for "normal" boilers,

## Training

Continental leads the industry in providing training across the whole of the UK. In 2010 over 150 courses are available at locations in most major towns and cities, with our BPEC accredited trainers and mobile training rig delivering a mix of courses including a 1-day accredited "conversion" course for those who want to get their experience recognized, through to the full blown 2-day BPEC Installation course and the Continental registered Installer programme.

## Heating made simple®

With such an extensive product range, accessible training, and a commitment to the best in customer service it's no wonder that Continental customers come back time and time again (over 80% of sales are to repeat customers), and that 96% of our customers rate us as Good or excellent in all aspects of what we do, whether pre-sale advice, on-site help, clear instructions, or our training.

To find out why more and more plumbers and builders are choosing Continental systems just send us a set of plans, and we hope you will be impressed with our fast response and support.



Continental's HeatMax™ range of UFH controls

## Continental Underfloor Heating

Continental House, Kings Hill, Bude  
Cornwall EX23 0LU

Tel: 0845 108 7001 Fax: 0845 108 7011

e-mail: info@continental-ufh.co.uk

Website: www.continental-ufh.co.uk

# A Panel Decision

In a move to break with traditional thinking on under floor heating systems, Polypipe has launched two new panel based systems that are as simple to install as conventional radiator based heating systems and tick all the boxes on sustainability.

The two systems – Overlay Lite and Modular Heating Panels (MHP) – both incorporate lightweight panels that are designed for simple installation in situations where traditional under floor heating systems cannot easily be used. Overlay Lite is an addition to the existing Overlay system designed especially for use with lightweight floor coverings. MHP addresses the problems of installing under floor heating in upper floors in both new build and renovation projects.

## Overlay Lite

Traditionally, the installation of under floor heating in an existing building meant expensive and time-consuming excavation of the old floor, or the raising of the old floor to an acceptable level. The Overlay system changed all that. Measuring just 18mm in depth the system is designed for installation over an existing floor, saving time, labour and money.



New Overlay Lite is a high compressive strength, lightweight insulated panel ideal for retro-fit installations where lightweight floor coverings such as laminates, carpets and engineered woods are to be used. It complements the original system which is ideal for use with heavyweight floor coverings. Overlay Lite is easy to cut and jointing is simple, making it great for use in larger and multiple room applications.

Both Overlay Lite and Overlay systems ensure excellent response times and reliable heat output compared with traditional built-in under floor heating systems.

### Installer training

Members of the Polypipe Registered Installer Network receive free training – on site if needed – together with a technical assistance hotline. They also receive all the support they need to sell the entire range of Polypipe floor heating systems, including

price lists, installation guides, consumer brochures, product guides, van stickers and key rings.

Installer support is also available at [www.ufch.com](http://www.ufch.com) and Polypipe also operate a dedicated consumer site at [www.freeyourwalls.com](http://www.freeyourwalls.com)



## Modular Heating Panels

In new build and renovation projects, fitting under floor heating into the upper stories can be very tricky. Suspended floors mean awkward, labour-intensive fitting of pipe, plates and insulation within the supporting floor joists. MHP has been developed to make installation into suspended floors in both new build and renovation projects fast and easy. The biggest advantage of the MHP concept is the ease and speed with which the pre-configured panels can be fitted into existing joist voids and then connected to a standard heat source. MHPs can be fitted from above or below, and can accommodate both traditional and engineered joists.

When it comes to under floor heating, most conventional suspended floor systems consist of a single section of pipe contained within another part of the system structure, such as spreader plates and the system will also require insulation. The Polypipe MHP system provides installers with the convenience of a pre-configured solution, with all of the floor heating elements supplied fitted within complete panels. Costly installation time is therefore significantly reduced.

## Sustainability

MHPs deliver high output at relatively low flow temperatures, providing maximum heat efficiency and lower energy consumption. These panels are designed to work like 'under floor radiators', delivering heat only to those areas which require it and consuming just enough energy to maintain a comfortable room temperature.

## Panel sizes

To accommodate any installation project, MHPs are available in two lengths (1.3 and 2.0m) and two widths (380 and 490mm). Each panel is covered in heat diffusing foil, and features pre-installed pipe circuitry and 30mm of insulation. The pipe circuitry is based on 10mm diameter pipe, while a 500mm length of pipe extends from each panel to allow for connection to the flow and return pipe work from an under floor heating manifold.

For extra installation convenience, up to three MHPs can be connected together, with the recommended maximum room area per circuit being 20m<sup>2</sup>.



## Polypipe Ltd

Broomhouse Lane, Edlington, Doncaster, DN12 1ES  
Tel : 01709 770000 Fax: 01709 770001  
[www.ufch.com](http://www.ufch.com)

# Underfloor Heating and Heat Pumps - Perfect Partners



The design of highly efficient, integrated low carbon solutions is all in a day's work for Nu-Heat Underfloor and Renewables says *Adrian Troop, Nu-Heat's Sales and Marketing Director.*



**A**lthough there are many factors to take into consideration when combining underfloor heating with heat pump technology, the finished system offers considerable energy savings in comparison with traditional heating options; as much as 30% with a ground source heat pump and 20% with an air source heat pump, impressive figures reported by Eu Ray (European Radiant Floor Heating Association).

The low flow temperatures associated with underfloor heating are ideal for heat pumps as they enable the maximum efficiency of the units to be achieved. When underfloor heating systems are specifically designed to be fed by a heat pump, additional tubing and more efficient floor constructions can be used to allow even lower flow temperatures, typically 35°C – 45°C, whilst still achieving the required air temperature inside the property.

## Considerations

Insulation is critical to efficient operation. With adequate levels of floor insulation, heat pumps operate at a higher Coefficient of Performance (CoP). A ground source heat pump, for example, can attain a CoP of 4 – 5, providing 4 to 5 kilowatts of free energy for every 1 kilowatt of electricity used to power it. In general it is more cost effective to increase insulation levels than it is to install a larger heat pump.

The performance of underfloor heating when used with a heat pump is affected by three key variables; temperature of the heating water, quantity of tube in the floor and thermal resistance of the floor covering. As a design and supply company, Nu-Heat takes care of the complex heat loss calculations and determines what tube spacing is required to achieve the necessary heat outputs. Our floating floor panel TriPanel™ offers three centres – 115mm, 175mm and 230mm – and allows the most suitable tube density to be selected for appropriate flow rates. Screeded floors offer the greatest flexibility.

## Nu-Heat's range

From ground source to air source and exhaust air, Nu-Heat's wide range of Stiebel Eltron, NIBE and Hitachi heat pumps allows us to specify the correct model for a particular project. Our offer also includes a comprehensive choice of cylinders and buffer tanks to suit the individual system configuration.

Nu-Heat's complete packages are supplied ready for installation and backed up with award-winning manuals, bespoke design layouts and electrical diagrams detailing the whole system.

## Service and support

Nu-Heat's commitment exists for the life of the heating system. Our wealth of experience of both UFH and its integration with energy-efficient technologies ensures complete product support for any installer considering them for the first time. Our technical support team is only a phone call away, and we offer on-site and commissioning support on the entire range of heat pumps.

## Project compatibility

Nu-Heat's online heat pump tool helps determine whether heat pump technology is suitable for a project. A series of questions such as the age and approximate insulation levels



of a property assesses whether a heat pump is likely to deliver the heating and domestic hot water needs of the property. Visit [www.nu-heat.co.uk/HP/HeatPumpTool.html](http://www.nu-heat.co.uk/HP/HeatPumpTool.html) for more information.

## Our reputation

Nu-Heat provides a service that is not widely available in the marketplace. Not only do we offer a wide range of low carbon and renewable products, we also give a complete, integrated solution and comprehensive support to every project, however large or small. This includes offering NICEIC approved courses at our training centre – recently the recipient of a National Training Award – an award that recognizes organisations 'that have achieved really outstanding business and personal success through

## Nu-Heat UK Ltd

Heathpark House, Devonshire Road, Heathpark Ind Est, Honiton, Devon EX14 1SD

Tel: 01404 549770 Fax: 01404 549771

e-mail: [info@nu-heat.co.uk](mailto:info@nu-heat.co.uk) Website: [www.nu-heat.co.uk](http://www.nu-heat.co.uk)



# WARMTH FOR THE SOLE

**B**usinesses and homeowners in the UK have just experienced the worst winter since 1981-1982. Amidst the stories of blocked roads, dangerous streets, and the cost to the economy, two main topics have risen to the top of the agenda: how high are our resultant fuel bills likely to be, and does this winter act as more evidence of climate change?

Let's deal with the first of these – heating our homes and business premises. Fuel bills for this winter are set to explode, coming in at double, triple or even higher than what might have been necessary or expected before the deep snows fell. This is a time to look at heating alternatives or simply resign ourselves to perpetually rising fuel costs.

For a long time the use of radiators (high temperature convectors) in the UK has been the accepted way of providing warmth. Now though, advancements in technology have increased our capacity to provide a more economical and natural warmth for homes and business premises. **Underfloor heating** is going through a rapid surge growth for a number of reasons, not least of these being the fact it is a far superior way to heat your home or business offices.

You might be thinking of replacing your heating system, undertaking renovations, or delivering a new-build. If so, you need to know there are several advantages to underfloor heating:

- It gives a very even temperature with few cold spots as it does not 'heat the air' like radiators try to do
- It runs more efficiently as it heats a whole room for longer whereas a conventional radiator heats the air closest to it
- So not only can you save energy, you can run the system at lower temperatures, thus also saving money

In a nutshell? Underfloor heating is more efficient, cost and heat-effective, as well as being consequently more planet-friendly.



Here at **Begetube UK** we can say all of this because we've spent the last decade, and longer, creating and installing underfloor heating for customers all over the UK. We've developed the skills, experience and knowledge needed to provide

If you prefer less efficient heating, paying more for the privilege and you're not interested in the 'greener' use of energy then good luck with that, we can highly recommend some providers of thermal underwear, you're going to need it!



responsive systems which bring warmth to the sole (the fact that our customers can feel good about the side-benefits for the environment is the kind of 'by-product' we like).

Our *promise* is to match the highest quality components with the most advanced controls. In effect, that our excellent service and goods will continue to result in achieving our ultimate goal....*happy customers*.

But if you think you've no more heat and money to lose with radiator heating, we believe you have *everything to gain* with underfloor heating. Learn more at [www.begetube.co.uk](http://www.begetube.co.uk) about how we can help, and think of all those soles you'll be saving!

**Begetube UK:**  
01463 246600;  
[info@begetube.co.uk](mailto:info@begetube.co.uk)



# Underfloor Heating – *It's time to put it at the heart of energy efficient heating policy*

By Rod Hickmott - a director of Maincor.



**O**ur industry is in danger of being marginalised by government energy policy. Building regulations have become the written form of our politicians' ambitions to reduce carbon and energy and the Domestic Heating Compliance Guide is the Government convening the industry to bring it into compliance with those ambitions.

The overwhelming output from government is about energy generation – wind, solar or heat pumps, or some other technology that's waiting in the wings. In the end this is nonsense, as the answer is fully integrated systems that make best use of these technologies to deliver comfort and hot water in our buildings. So why does the Government only grant-aid the generation, why doesn't it recognise that one form of heating is going to be more efficient than another and back it? The parallels with underfloor heating are clear. The underfloor heating industry used to be in the hands of just a few specialist distributor contractors but now underfloor heating is overwhelmingly commissioned by heating engineers. The pipe might be laid by the screeder, the self builder or whoever, the science is in connecting to a boiler, controlling and commissioning; by the time it reaches that stage a heating engineer has his hand in the process.

The mantra that underfloor heating was too complicated for plumbers and heating engineers – "leave it to the professionals" meant for a while the market was strangled. It was only when the penny dropped and heating engineers remembered that they are the professionals that they got themselves trained and took back their industry! They need to do the same with Renewable energy Technologies.



What will also help to open up the industry is the business of grants:-

Why is it that certain renewable energy equipment attracts grants, but the complete system does not? There is good evidence that underfloor heating produces significant energy savings over traditional radiator systems – a well designed and installed system can keep a boiler in condensing mode longer and also enhance the performance of heat pumps and solar thermal, because underfloor heating makes more efficient use of the low grade hot water. The figures are out there.

If we are to use incentives and grants it must be for the whole system and if underfloor heating is more efficient than radiators then it should be grant aided as the companion package to renewables.

Simplify the process, make the right support available to the trade and we can get back to the basics the industry understands – plumbers and heating engineers calling into merchants to order the systems they need.

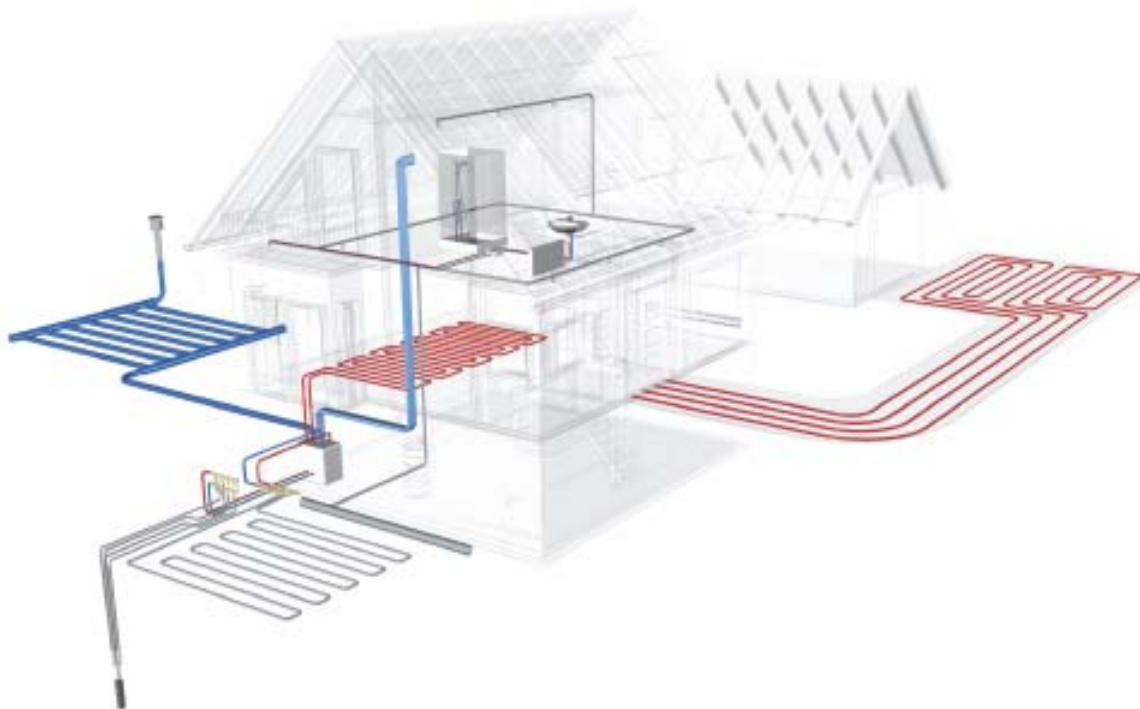


Again, underfloor heating has taught us some useful lessons – merchants learnt to use manufacturers in a different way. At first, whole systems were delivered on a pallet, manufacturer to merchant, and collected by the installer with designs, quotations and technical support coming from the manufacturer. Bit by bit, as the merchants and installers grow in confidence and experience, the process of supply is developing and maturing the same needs to happen with renewables.

The Builders Merchant Federation and UHMA has convened a process to develop renewable energy heating markets and would like to lobby Government to create the right structures to enable these new markets to grow fluently. It is to be hoped that Government will see the sense in the process and instead of waiting for the call, will actively join with the BMF and UHMA to develop the rate at which renewable energy solutions move through the market, because the rate at which we are impacting on our overall housing stock now is pitifully slow.

The UHMA has worked, not only with the BMF to market underfloor heating with renewable technologies, but also with bodies like CIBSE and BSRIA to develop the engineering integration. If Government plays its part and supports renewables, only as part of complete systems, we might actually get somewhere in developing volume, achieving energy reduction and, in the process, achieve a better way of living!

**Maincor Ltd**  
Leicester Road, Lutterworth, Leicester, Leicestershire LE17 4NJ  
Tel: 01455 555930 Fax: 01455 555931  
e-mail: [enquiries@maincor.co.uk](mailto:enquiries@maincor.co.uk)  
Website: [www.maincor.co.uk](http://www.maincor.co.uk)



## ENERGY EFFICIENT BUILDING SOLUTIONS INNOVATIVE UNDERFLOOR HEATING AND COOLING SYSTEMS

Thinking about the future, two key elements come to mind - the environment and the next generation. Our Underfloor Heating/Cooling System is one such product which has been proven time and time again in areas of high footfall, providing an environmentally conscious and sustainable solution for large and small scale projects.

Now with BMS plug and play capability from REHAU's "Intelligent controls, and with a wide selection of global custom-

ers, from sports stadia and commercial enterprises to small refurbishments and domestic installations, we are confident that we have both the range and scope of products for your needs.

The REHAU system is the perfect partner for energy efficient condensing boilers and for renewable energy solutions and has been proven across both the public and private sectors.

Our technical expertise, customer service, innovation and exacting quality

standards position us at the forefront of the industry and we are proud to have become the preferred choice in our field.

- Value
- Quality & Reliability
- Technical Support

**REHAU - a reputation for excellence**  
Visit [www.rehau.co.uk](http://www.rehau.co.uk)



# True underfloor know-how



You've always trusted OSMA products. Now, you can rely on **Thermoboard**. It's the new name for tried and tested UFH from Wavin.

We've always been dedicated to UFH, from start to finish. Our sole focus is on helping you to achieve the right solution, every time.

See that focus in the **Thermoboard** FullSpec service: committed expertise, aiding system selection and ensuring regulatory compliance. From start to finish, with a tailored, detailed layout and specification.

For help to plan and deliver exactly what you need, you can always trust **Thermoboard**.

For more information visit: [www.thermoboard.co.uk](http://www.thermoboard.co.uk) email: [info@thermoboard.co.uk](mailto:info@thermoboard.co.uk) or call: 01392 444122

