



Image by Lesko Modular



The skirting board that *heats* your home™



Benefits of using the system



True radiant heat

Minimal air movement and drafts create real comfort.



Energy efficient

Even, all-around heat uses less energy yet provides real warmth.



Fast and responsive

No under heating or over heating.



Simple installation

Installed with minimal disturbance or modification to your home.



Works with any floor finish

Carpet, laminate, timber, vinyl with equal performance.



Free up wall space

Create a more spacious and versatile environment.

The **smart** alternative to panel radiators, storage heaters and underfloor heating.



Feel
the difference...





The skirting board that *heats* your home...

Imagine a home without radiators. Imagine a home where you can decide the layout and arrange the furniture however you want. Imagine a controllable, comfortable, energy efficient heating system that responds in minutes, and works just as well with any floor covering or finish.

ThermaSkirt is a radically simple, innovative and proven radiant heating system that combines the heating into a stylish, sleek and unobtrusive skirting board. No more storage heaters, no more panel radiators and no need for underfloor heating. Available in wet and electric versions.



"Wet" or Hydronic



Direct electric

ThermaSkirt is a simple installation onto any suitable central heating system or electrical heating circuit, whether the project is a new build apartment or a refurbished manor house. Heating from low-level, and from all-around the room is a proven way to save energy without sacrificing comfort (Source: Energy Saving Trust). No drafts, no hot spots and no under-heating - whatever the floor construction or finish.

With more than **40,000** systems installed worldwide, ThermaSkirt is the No1 alternative to radiators and underfloor heating.

ThermaSkirt: The World's Smartest Heating System.



When installed by our trained engineers, ThermaSkirt will give you a no quibble 10 year parts warranty against manufacturing defect.

THE SIMPLE, SAFE AND ENERGY EFFICIENT SOLUTION



ThermaSkirt Systems have been evaluated and tested by some of the world's leading institutes for its efficiency, performance, reliability and safety.



“ The product is out of this world; it has transformed my house ”
The Jones Family, Bristol



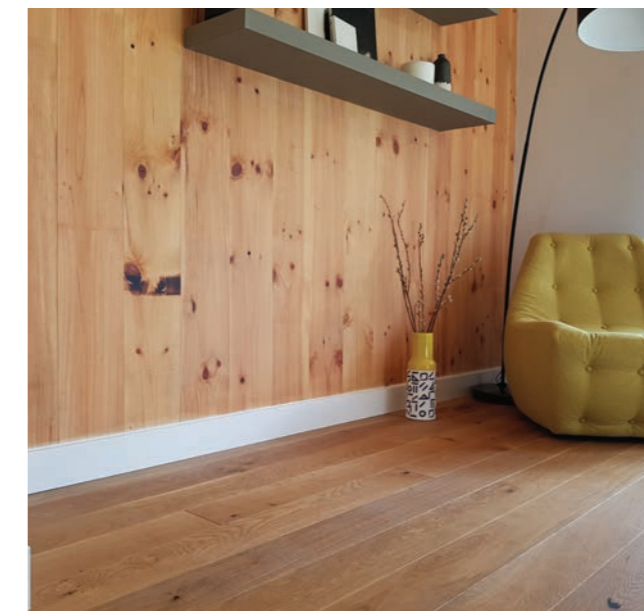
Shown: Deco BM2

“ They even heated my kitchen plinths—no more radiators and more kitchen units! ”

Mrs P Kell, Cheshire



Shown: Bm3 profile



Shown: Bme2 profile



Shown: Bm2 profile

Create the room you want and the look you desire

Whether it's a kitchen diner, bedroom, basement, living room or loft, Thermaskirt creates valuable wall space by removing the radiators – without disturbing your floors.

Just imagine; extra kitchen units or fitted bedroom furniture where the radiator used to be, a sofa where everyone can enjoy the TV, or just more space to roam around.

Saying goodbye to your bulky storage heaters or replacing your panel radiators doesn't mean you have to take up the floor coverings to install underfloor heating.

Thermaskirt can either connect straight onto any conventional plumbing system or any suitable electrical heating circuit and simultaneously provides a freshly painted new set of skirting boards that are durable, versatile and energy efficient.

ThermaSkirt h₂O is available in a wide range of profiles and colours. With integral oval pipes, ThermaSkirt h₂O will work with any primary heat source of hot water; boilers (gas, oil or LPG), wood pellet and bio mass and renewables such as heat pumps and solar assisted systems.

Thermaskirt e is available with a range of interchangeable top profiles to effortlessly change the look from room to room, project to project.

Provided as standard in a smart, modern Deco pencil round profile, Thermaskirt e can be transformed in no time at all into a traditional Torus profile, a stylish Lambs Tongue, an easy-to-clean Ovolo or a stately Ogee profile.

Special colours, sizes and top profiles are available for volume project orders.

ThermaSkirt - the advantage



Patented design gives unparalleled performance and amazing aesthetics

Only ThermaSkirt h₂O features the unique elliptical flow and return pipes to not only achieve a super slim 20mm profile, but also to maximise heat output.

Providing a profile that replicates a typical skirting board not only creates incredible aesthetics, but the increased turbulence created by the elliptical tubes ensures more heat from the water is transferred to the radiant surface. This coupled with a high quality aluminium polymer alloy ensures a high heat output per metre and an even spread of heat across the length and breadth of the system.



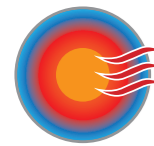
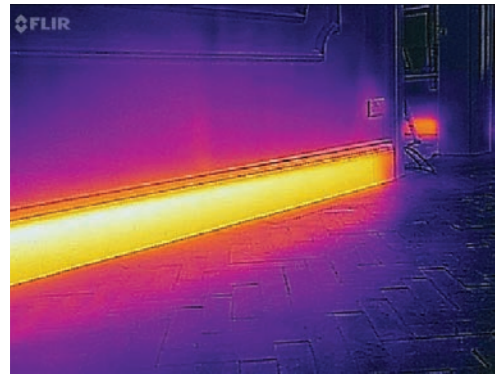
Safety designed in from the start

As well as providing the same energy saving radiant & heat distribution characteristics of the H₂O heating version, ThermaSkirt^e has another unique and important benefit – safety.

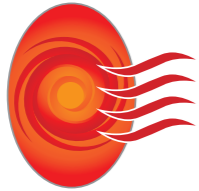
Unlike conventional electric panel or storage heaters, ThermaSkirt^e utilises a specially developed fire safe heating element that will not over heat, even if covered over by insulating materials such as books or bedding. Furthermore, the heating system continues to work wherever it is not covered over without fusing or burning itself out.

Instead, the system stops heating only wherever there is a thermal obstruction, avoiding nuisance tripping and eliminating the risk of fire.

Whenever the thermal obstruction is removed, ThermaSkirt^e naturally re-sets itself and recommences heating as normal.



A conventional round pipe creates a 'bullseye' effect whereby the hot water travels down the centre, limiting heat transfer to the surface.



ThermaSkirt's patented Oval pipe creates tremendous turbulence releasing the heat and significantly improving output per M.

ThermaSkirt - anything else is a compromise

ThermaSkirt is not only the most stylish, smartest and sophisticated radiant heating system you could choose, it's the most practical and energy efficient one as well.

ThermaSkirt Vs radiators

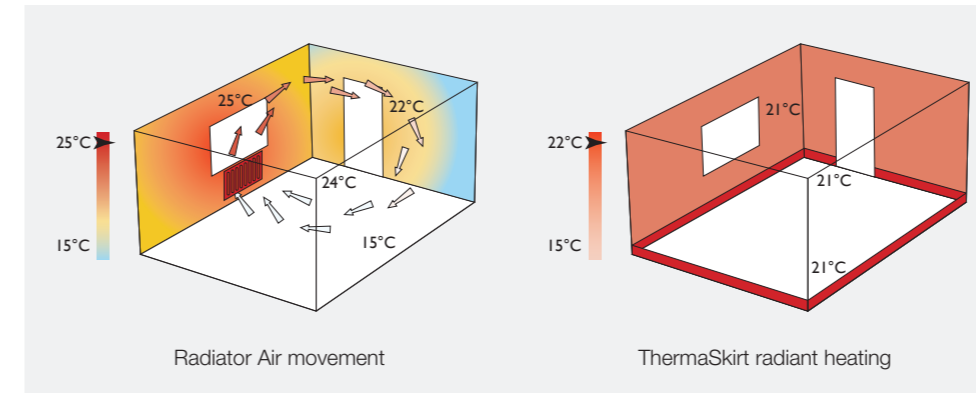
As well as stealing valuable wall and floor space, radiators also emit heat by convection – that is by moving air around. Not only does this create uncomfortable hot and cold spots it can lead to dust marks on the walls and potentially aggravate respiratory illnesses such as asthma.

ThermaSkirt on the other hand not only frees up your walls, but emits an even, gentle radiant heat from all sides, creating greater comfort for less energy (Source: BSRIA Test 53197/1).

So effective is ThermaSkirt at radiating the heat energy from the hot water that it is possible to reduce your boiler flow temperature or even use a heat pump, further increasing energy savings. Recently, ThermaSkirt won Most Innovative New Product at the National Heat Pump Awards.



Furthermore, by removing the bulky steel radiators off the wall the risk of injury through falls, trips and stumbles is eliminated. Given that there are over 27,000 radiator related injuries per year (source: RoSPA), this is a significant improvement in health and safety.



ThermaSkirt Vs underfloor heating

For some, having no radiators means only one thing – underfloor heating. But for many, UFH is impractical as it cannot be easily retrofitted without major upheaval, or is often installed under insulating surfaces such as carpet or wood, hindering performance and response times.

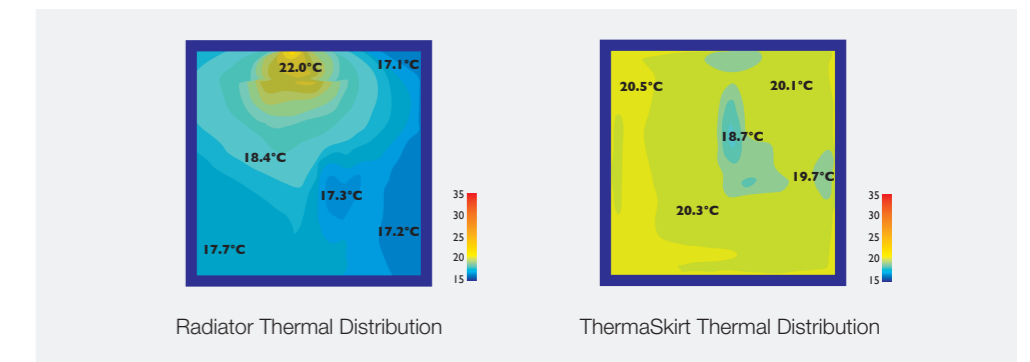
ThermaSkirt provides the benefits of UFH but with significantly less hassle.

It is simple to retrofit - often using the existing radiator pipework or electrical circuits- and floor coverings usually stay undisturbed. Doors do not need cutting down as when an overlaid UFH system is installed, and controls can be as simple or as sophisticated as you like – including wireless, Wi Fi or smart phone enabled (see page 18 for options).

In operation, ThermaSkirt responds in minutes, avoiding under and overheating, which in the long run means real energy savings (Source: Energy Saving Trust).

In addition, ThermaSkirt works just as well with any floor coverings, -timber, laminate, carpet tiles or vinyl - and is readily accessible and simple to amend in the unlikely event you ever need to.

Finally, as ThermaSkirt is a simple, radiant heating solution using standard pipework, it is perfectly possible to mix and match ThermaSkirt with other heating options: a towel radiator in an en-suite or underfloor heating in a kitchen extension for example.





Central heating skirting

A highly efficient alloy polymer composite provides exceptional radiant heating efficiency, whatever the floor construction and covering.

Fully fitted profile



Most innovative new product

KEY POINTS

Connections

1. Push fit connectors with Teflon coated poly elastomer O rings create a perfect seal with no soldering, glues or sealants, and has 10 year warranty.

Retaining clip

2. Retaining clips retain the connectors, withstanding pressures of up to 15bar

Return manifold

3. Return manifold returns the flow back to the beginning, providing even heat all along the length as well as draining and bleeding options.



Profiled start, end & indeterminate covers hide even joint.

Future proof

Flexible top gasket seal eliminates any caulking and filling and makes redecoration easy.

Easy to install

Cuts with conventional power tools and fitted 'above ground'; enables rapid and trouble free installation.

Standard external corners available in 90° and 225° - other angles are available to order

The details

Connects onto a conventional wet heating system, 15 or 16mm Feed & return. Simple to retrofit and straight forward for new design & build.

See page 18 for control options.

6m
Up to 6m in a single length for minimal joints

Colour matched internal corner cover - available in 90°, 135° and other angles are available to order

The finish

All skirting panels and covers pre finished in a tough, durable, epoxy powder coat paint finish. No painting required and no brush marks.

Versatile

Removable bottom cable cover allows discreet installation of data and AV cables and can be trimmed to suit uneven floors.

No fuss

Mounts to the wall with secure, adjustable brackets that allow for uneven walls.

The profiles



Deco BM2



Deco BM3



Deco profiles can be fitted with optional profiled cappings to suit the décor & style required. Capping height 45mm

MATERIALS

- Skirting:** Aluminium polymer alloy
- Connectors:** Reinforced glass nylon
- Paint finish:** Epoxy powder coat

APPROVALS AND WARRANTY

- CE Marked to BS EN 442-1
- Tested by BSRIA, TUV and KTH
- 10 year warranty:** Aluminium friendly inhibitor required

SPECIFICATIONS

- Operating pressure:** Typically 2-3 bar
- Max testing pressure:** Typically 10 bar
- Max operating length:** Typically 20-25m per 15/16mm feed

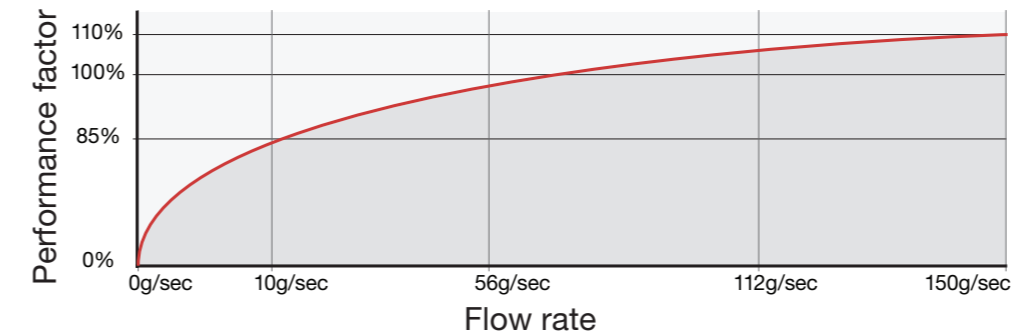
Technical specifications



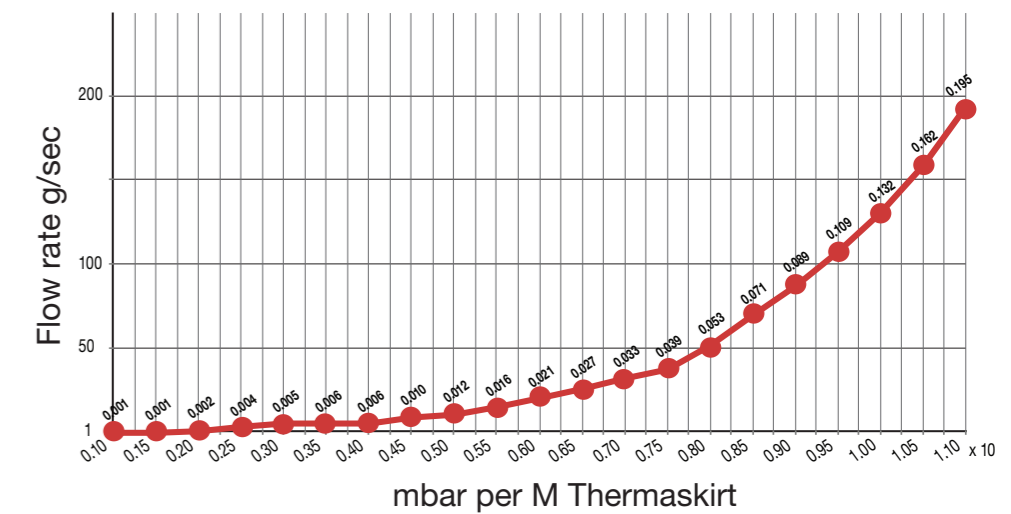
Profile	Flow rate	Flow temp Vs W/m					
		72°C (ΔT50)	45°C	50°C	55°C	65°C	75°C
			< Typical Heat Pump / Renewable Energy Source >			< Typical Boiler; Gas, oil LPG or Pellet >	
DECO BM2	56-80 gm/s	134	53	66	80	105	143
URBAN LT	56-80 gm/s	148.5	59	73	88	124	159
CLASSIC TS	56-80 gm/s	148.5	59	73	88	124	159
DECO BM3	56-80 gm/s	197	80	98	119	166	215

PERFORMANCE VS FLOW RATE

Output in Watts/m (or BTU/ft) is only slightly affected over a wide range of flow rates. Our typical test data is based on 56g/sec in accordance with the BSRIA test BS EN 442-1. Output data is given here for flow rates between 10g/sec & 112g/sec which covers the lower and upper ranges of suitable performance for central heating systems.



FLOW RATE RESISTANCE (Bm2 shown)





Electric skirting heating

Unique self regulating heating element uses less energy as the room heats up and will not overheat even if covered by insulating materials.

Fully fitted profile



As fitted in the BRE Innovation Centre, Motherwell

KEY POINTS

Flooring

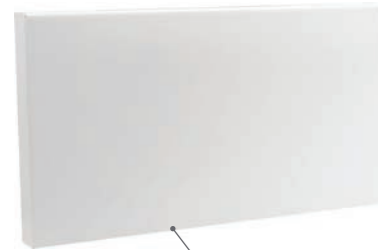
Works just as effectively and efficiently with any construction or covering. Beam & block, tiles and carpet, wood or laminate.

Electrics

32A, Type C 30mA RCBO or RCD unit is all that's needed to provide a suitable circuit.

Controls

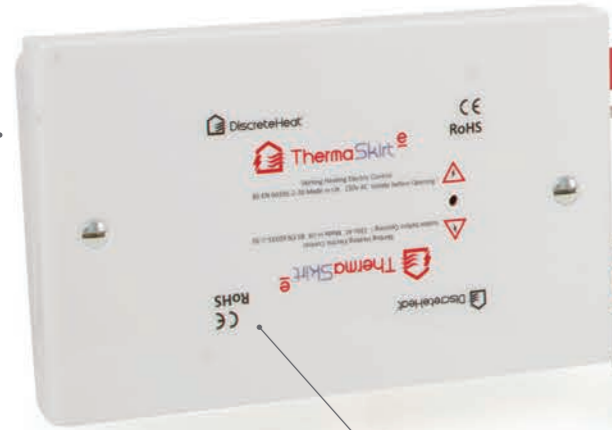
Wired, wireless and even smart phone enabled available.



Start, end and intermediate covers manufactured from sturdy stainless steel, hide any joints.

Easy to install

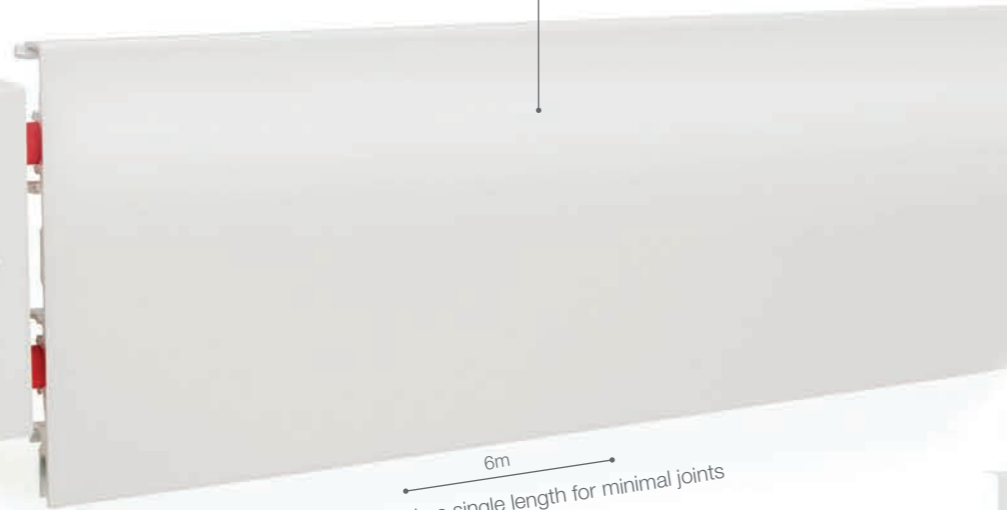
Cuts with conventional power tools and fitted 'above ground'; enables rapid and trouble free installation.



Ease of installation

PCB connection housed in standard double back box for ease of installation. Connects onto a conventional electric heating circuit and controlled room-by-room by it's own Thermostat.

See page 18 for control options.



Up to 6m in a single length for minimal joints

Colour matched internal corner cover - available in 90°, 135° and other angles are available to order



Standard external corners available in 90° and 225° - other angles are available to order



Neat finish

Flexible top gasket seal eliminates any caulking and filling and makes redecoration easy.



Minimum connections

Skirting panels available up to 6m length and heating elements up to 50m. Simply cut to size; minimal joints means aesthetic perfection.

The details

All skirting panels and covers pre finished in a tough, durable epoxy powder coat paint finish. No painting required and no brush marks.



No fuss

Mounts to the wall with secure, adjustable brackets that allow for uneven walls.

The profiles



Deco BM^e2



Deco BM^e3



Deco profiles can be fitted with optional profiled cappings to suit the décor & style required. Capping height 45mm

MATERIALS

- Skirting:** Aluminium polymer alloy
- Covers:** 316 stainless steel
- Paint finish:** Epoxy powder coat

APPROVALS

- CE Marked to Low Voltage Directive
- Tested to EN 60335-2-30 (Room Heaters)
- EMC Test Certificate No C106457

ELECTRICAL RATING

- Supply:** Supply: 220~240V
- Inrush:** Typically 1.2 A/m at 10°C
- Protection:** Type C 30mA RCBO to IEC 60898

Technical specifications

EN 60335-2-30



Deco BM^e2



Op temp 220-240vAC	Heat output 220-240vAC	Room start up temp	Recommended max. Skirting lengths (m) Vs FSU Rating				Total System @32A RCBO
			10A	13A	16A	20A	
40~45°C	50~65w/m	@10°C					100m
50~60°C	85~95w/m	@10°C					80m
60~70°C	115~130w/m	@10°C					55m

Deco BM^e3



Op temp 220-240vAC	Heat output	Room start up temp	Recommended max. Skirting lengths Vs FSU Rating				Total System Length @32A RCBO
			10A	13A	16A	20A	
40~45°C	80~95w/m	@10°C	8m	10m	13m	16m	80m
50~60°C	120~140w/m	@10°C	8m	10m	13m	16m	50m
60~70°C	160~185w/m	@10°C	8m	10m	13m	16m	40m

¹ Soft start units available for longer lengths. Details on request.

Control systems

ThermaSkirt^{H₂O} (only)



SIMPLE 'ON BOARD' TRV THERMOSTAT

- Fitted directly onto the ThermaSkirt
- Mechanical operation – uses existing pipework
- Simple thermostatic room comfort control
- Integral lock shield balancing valve



REMOTE CAPILLARY THERMOSTAT VALVE

- Connects onto standard pipework
- Mechanical operation – no electrics required
- Simple thermostatic room comfort control
- Eye-level position, ideal for assisted or retirement living



IN LINE 2 PORT VALVE (HIDDEN IN CEILING OR FLOOR VOID)

- Connects onto existing pipework
- Controlled by programmable ThermoStat (see right)
- Accurate and silent room temperature control
- Wireless option available



MANIFOLD CONTROL WITH ACTUATORS

- Ideal for major refurbishment or new build
- Up to 16 zones controlled from one central point
- Features secondary pump and balancing valves
- Wireless & Wi Fi options available

→ See right for suitable Thermostats

ThermaSkirt^e & ThermaSkirt^{H₂O}



SIMPLE DIAL TRV THERMOSTAT

- Connects onto standard/existing electrics
- Mechanical setting for room temperature
- Simple room comfort control
- Ideal for storage heater replacement



FULLY PROGRAMMABLE TIME AND TEMPERATURE CONTROL

- Touchscreen thermostat with auto dim
- Accurate control to ±0.5°C
- 6 on/off settings per day
- 5 + 2 day or 7 day week program options



SMART PHONE OR WI-FI ENABLED

- Wireless control and setting from anywhere
- Simple, instinctive programming
- Choice of colours to suit decor
- Live interactive data and updates



ELECTRIC 'WIRELESS MANIFOLD' 4 WAY ROOM CONTROLLER

- 4 way room controller
- Simple wiring to one point
- Ideal for new build or modular construction
- Wireless or Wi Fi options available



As well as our own range of DiscreteHeat control systems, ThermaSkirt h2o and e systems are fully compatible with all well-known home automation and smart control systems. These include (but not limited to) Nest by Google, Hive by British Gas, EvoHome by Honeywel, Control 4 and Heatmiser.

For more information contact your local ThermaSkirt installer or info@discreteheat.co.uk

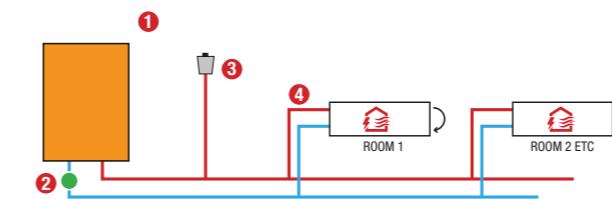
Lot 20 Compliance; From 1st January 2018, all electric room space heating systems require additional control and/ or learning functions to comply with the European ECo Design Directive.



Typical installations

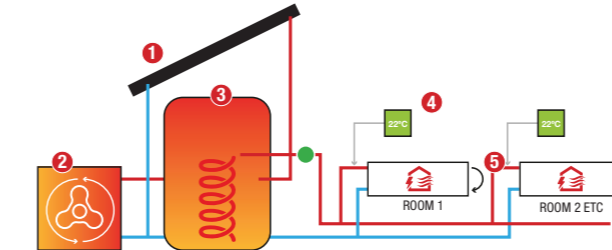
ThermaSkirt^{H₂O}

Typical radiator replacement



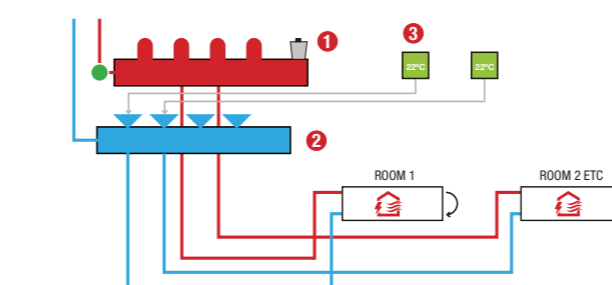
- 1 Typical boiler
- 2 Secondary pump may be required on large or complicated systems
- 3 Air vent or aerator recommended
- 4 'On board' manual TRV

Heat pump/solar assisted renewables



- 1 Solar thermal or PV & immersion
- 2 Air source or ground source heat pump
- 3 Thermal store with heat interface coil(s)
- 4 Digital or wireless room thermostat control
- 5 Remote or wireless 2 port valve (hidden)

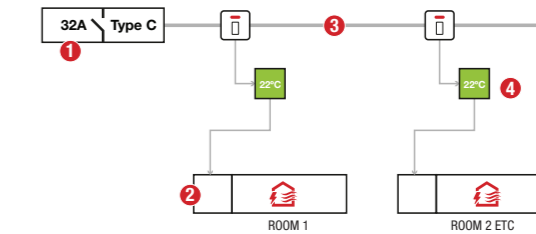
Manifold control



- 1 Balancing/check valves
- 2 Flow control valve actuated by wired or wireless thermometers
- 3 Wired, Wireless or Wifi thermostat

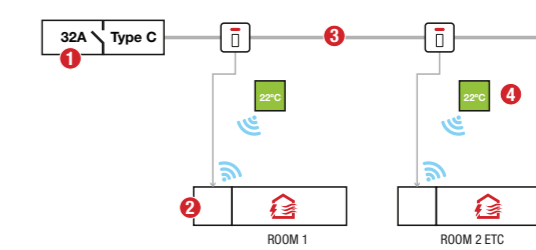
ThermaSkirt^e

Basic storage heater/panel radiator alternative



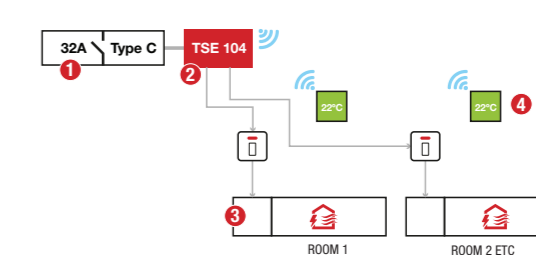
- 1 Consumer unit
- 2 PCB control unit
- 3 Ring main
- 4 Digital or wireless room thermostat control

Wireless/wifi enabled



- 1 Consumer unit
- 2 Wireless PCB control unit
- 3 Ring main
- 4 Digital or wireless room thermostat control

Central 'electric manifold' control



- 1 Consumer unit
- 2 4 way room controller
- 3 Electrical connection
- 4 Wifi or wireless room thermostat control

ThermaSkirt - versatile, innovative space saving solutions

With over 40,000 installations worldwide, there aren't many applications we haven't heated or problems we've had to overcome.. Here are just a few examples of just how versatile ThermaSkirt can be.

Bay Windows & Odd Angles

Flexible connectors and configurable covers cope with any angle.



Across Patio & Bi-fold doors

Architects and home-owners love to bring the outside-in-side with large floor to ceiling walls and doors – but where is the heating going to go?

ThermaSkirt can provide a heated 'threshold' solution to provide the heat just where it's needed most.



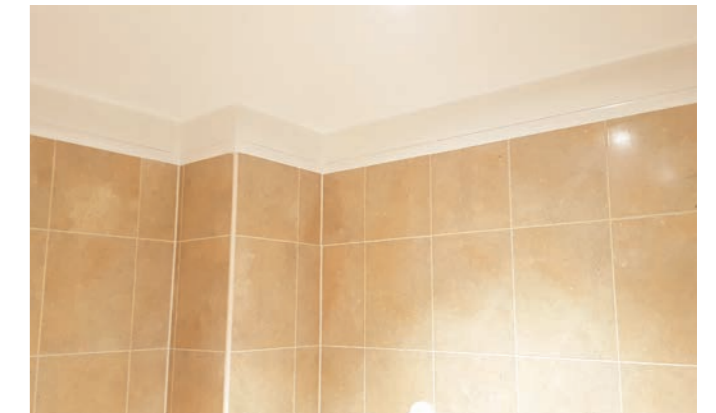
Kitchen units & fitted wardrobes

Plinth heating is a stylish way to heat your kitchen and bedroom, and free up valuable wall space. Choice of heights and colours available.



Coving Heating

No available walls? Coving heating in small spaces like en-suite bathrooms provides a smart alternative to infra red lamps or fan convectors.



Curved walls

Live in a windmill or water tower? Fancy a feature wall or a curved alcove? No problem; we simply form the ThermaSkirt to suit the shape.



Under Doorways & Openings

Sub-floor connections allow bridging of doors, archways and fireplaces with ease.



Commercial & public spaces

Double or even triple height solutions are available for larger commercial or public spaces such as gyms, meeting halls, churches, shops and libraries. See our EasyClean brochure for Healthcare and assisted living

ThermaSkirt - the 21st century heating solution

From listed buildings to modular construction, from offices to restaurants, from nurseries to assisted living, from schools to ships, ThermaSkirt is a practical, affordable and energy efficient heating solution

Listed buildings and stately homes

Renovating an existing building, especially one that is listed requires sensitive and commensurate measures; to modernise but not to mess. ThermaSkirt can add warmth and comfort to even the oldest, most prestigious buildings, without damaging the fabric or feel. Special profiles and colours are available for especially sensitive projects.



ThermaSkirt has been fitted in Several Grade I listed buildings

Modular construction

21st century construction techniques requires 21st century heating solutions. None more so than modular, where time is money and off-site construction requires everything to fit right first time. Combining the heating into the skirting saves time and money, and DiscreteHeat is working with some of the largest modular manufacturers in the world. Offering a pre-cut, pre painted room-kit solution enables manufacturers to plug'n'play when assembling their products.



Images courtesy of nHouse



ThermaSkirt – for difficult and demanding environments



Healthcare and assisted living

With an ever-ageing population, products that are designed for life are of ever increasing importance. We are working with some of the leading specialists in retirement and assisted living to provide safe, comfortable and energy efficient homes for the future.

The 'EasyClean' version of ThermaSkirt has been developed with and approved for use in the **NHS** in some of the most difficult and challenging environments. Ask about our EasyClean range for for healthcare and assisted living applications

Schools, student living and public buildings

Schools and places of learning require responsive, controllable, quiet and comfortable heating systems to create an environment conducive to learning.

Versions of ThermaSkirt have been installed in student living, primary and secondary schools (both mainstream and special educational learning) as well as nurseries and playschools all over the UK and Europe.



Image courtesy of the Iris Murdoch Dementia Centre, and the BRE Dementia Friendly Home

For free design and advice, contact our Commercial Sales Team today - 01942 88 00 66

Your authorised distributor/installer



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