

Introducing



# UNDERFLOOR HEATING

## TRADE PRODUCT LIST



Providing a Lifetime of Comfort



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**UFH**  
trade direct Ltd

# Leading the Way in Underfloor Heating

Hetta specialises in state-of-the-art underfloor heating (UFH) for all floor construction types and finishes.

Underfloor heating will provide you with consistent room temperatures – as well as improved air quality, more usable room space, total temperature control and energy savings of up to 30% compared to traditional heating systems.

## Underfloor Heating CAD Design Service

- The design team at Hetta are at hand to assist with all aspects of your underfloor heating requirements
- Utilising the latest software, we can accurately design and specify the correct underfloor heating solution for your chosen project. This includes heat loss calculations, flow rate settings, pipe layout diagrams and manifold positioning
- Fully indemnified and conforming to BS EN 12831 & BS EN1264

## Technical Support and Customer Service

- All products from the Hetta range are backed by a comprehensive technical advisory service, available to provide advice and guidance on all aspects of application, design and installation

Hetta Design, CAD & Technical Support Team: 01925 571 999

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Product warranties:

PE-RT Alu PE-RT pipe = 50 years / thermostats and wiring centres = 2 Years / manifolds = 5 years

# Benefits of Underfloor Heating

## Heating Efficiency

- Hetta underfloor heating is much more energy efficient than traditional central heating systems
- Operating at much lower temperatures, underfloor heating provides a constant, even desired heat to the designated areas, as and when required
- State of the art heating controls allows multi programmable settings whilst remaining completely user friendly

## Radiant Heat

- Hetta underfloor heating disperses heat evenly across the floor area, eliminating cold spots and draft areas
- Much of the heat produced by traditional central heating systems is lost, whilst underfloor heating provides an extremely comfortable living environment as the heat produced warms from the base upwards

## Design Freedom

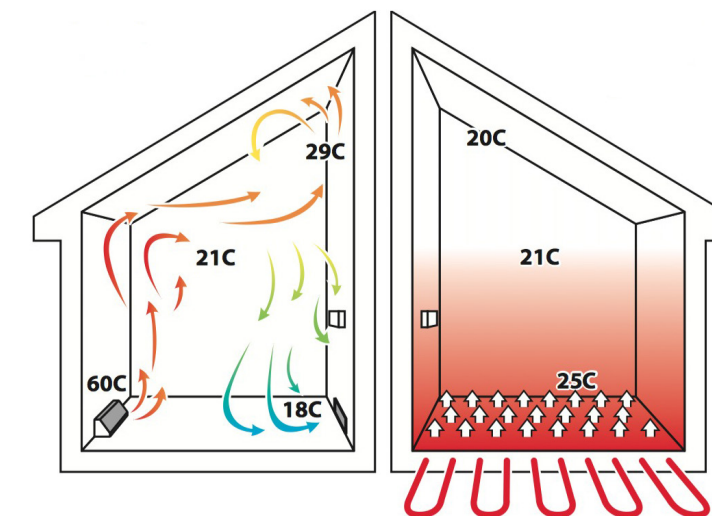
- No more unsightly wall hung radiators, means you can place your furniture where you want
- Hetta underfloor heating is completely invisible and is near to silent during operation

## Suitable for Every Project Type

- Hetta offers a diverse product range allowing for underfloor heating to be installed during new build or refurbishment
- Whether it is a full house project or a single room application, regardless of floor construction material, Hetta offers a solution
- You can easily integrate our underfloor heating systems with any existing heat source including renewable sources

## Maintenance Free

- Hetta underfloor heating is produced to the highest specification, providing our customers with a lifetime of comfort
- Other than thermostat control there is virtually zero maintenance required with underfloor heating
- Once fitted, you can relax and enjoy the benefits. Hetta underfloor heating pipe comes with a 50 year manufacturer's warranty



Traditional central heating system

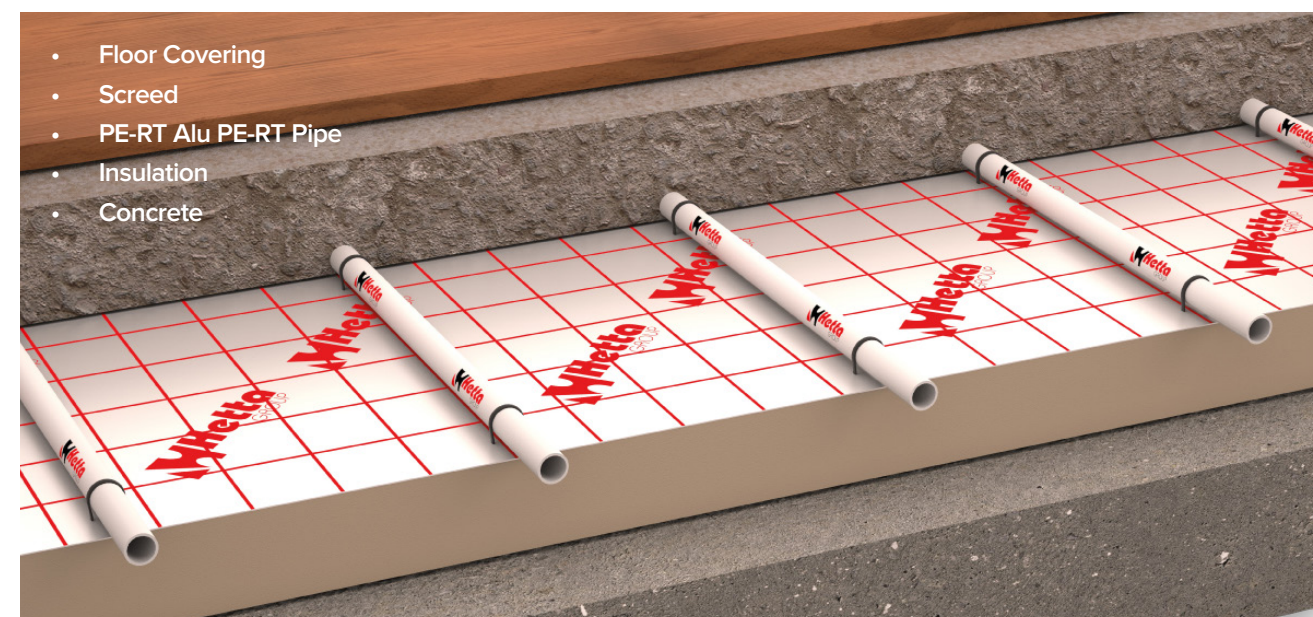
Hetta underfloor heating system



# Solid Floor Construction

For solid floors the underfloor heating system is laid onto an insulation layer before the screed is poured, neatly containing all of the pipe work within the floor structure.

This system has the added advantage of maintaining the floor structure depth exactly the same as it would be without the heating system.



- Excellent outputs achievable
- Most cost effective

## Pipe Staples

HSMP540 (qty 200)

Barbed 40mm manual pipe staples used to manually fix underfloor heating pipe to high-density insulation panels.

HSTTPC60 (qty 300)

60mm pipe fixing staples used with the Hetta universal aluminium staple gun (see page 11 - HSPCIN01)



## Alternative Fixings:

1200 x 820 x 30mm (1m<sup>2</sup>) Wet Screed Panel

HSWSP01

Made from 100% recycled high impact plastic. 100mm centres ensure accurate pipe spacing and even heat distribution. Each panel overlaps to form one continuous grid, reducing installation time.



1000mm Self Adhesive Pipe Rail

HSCR01

Self-adhesive plastic clip rail providing easy installation and ready made spacing. Ideal for applications where staples cannot be fixed.



25m x 150mm x 8mm Edge Insulation

HSEIN25

For use with screed applications eliminating heat loss

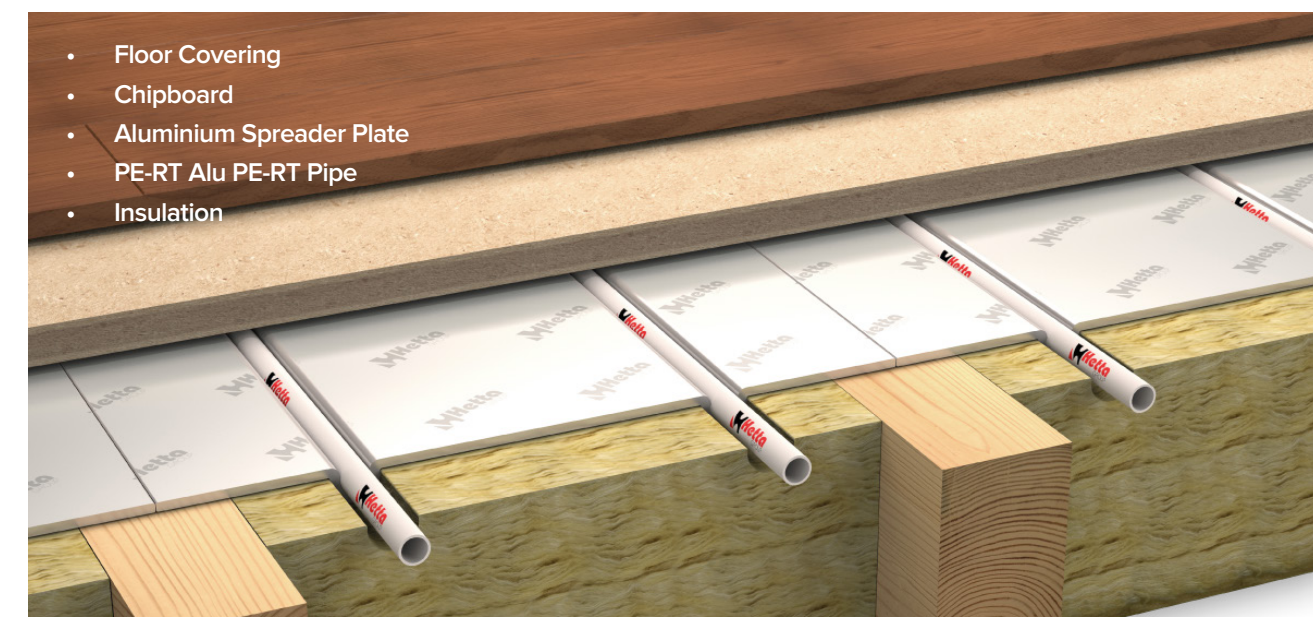


# Suspended Floor Construction

Suspended floor systems include joisted floors as well as solid floors with battens fixed to the floor.

Hetta aluminium spreader plates are ideal for underfloor heating applications on suspended floor constructions.

The floor void must be insulated with either loose fill insulation, or mineral wool insulation, and it is advised to minimise airflow to reduce the possibility of heat loss. For irregular joist widths cut the plates to fit.



- Easy installation system
- Lightweight with excellent thermal conduction
- Suitable for standard joist sizes of 400mm

## 1000 x 390mm Aluminium Spreader Plates

HSATP02

Twin Spreader Plate (200mm spacing)

HSATP03

Triple Spreader Plate (150mm spacing)



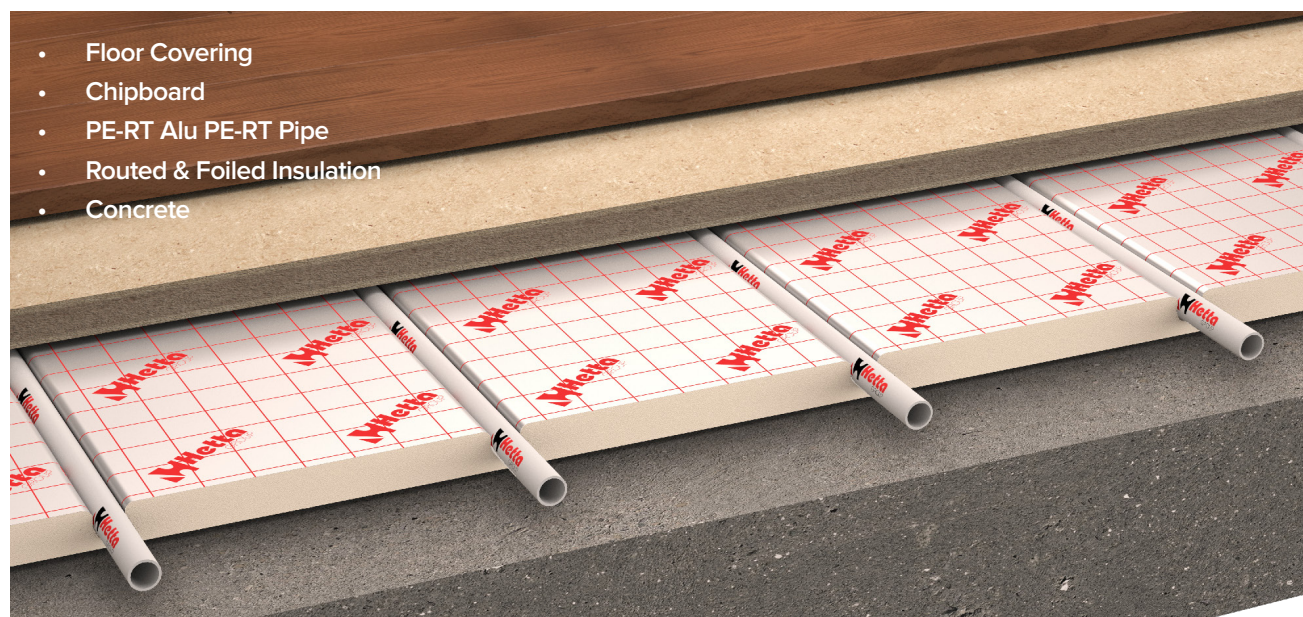


# Existing/Floating Floor Construction

The Hetta floating floor system has been uniquely developed to meet the increasing demand for clients requiring underfloor heating as a retro fit solution to existing floor areas.

The extruded polystyrene panels are foil coated and have a low thermal mass and consequently have a swift response time to changes in temperature.

The grooves in the insulation securely retain the underfloor heating pipe-work in the correct position eliminating the need for supplementary fixings.



- No need for screed, only raises floor by 25mm, no waiting for screed to dry, greatly reduced fitting costs
- Available with pipe spacing at 200mm and 150mm if greater heat output is required
- Lightweight & easy to cut
- Lay directly on existing floor
- Panels include radius return for complete and easy install

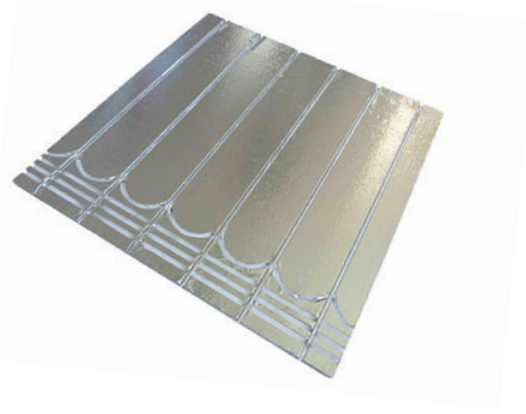
1200 x 1200 x 25mm (1.44m<sup>2</sup>) Polystyrene

HSRFP150

150mm Insulation Panel (8 grooves)

HSRFP200

200mm Insulation Panel (6 grooves)



# Hetta Underfloor Heating Pipe

Hetta multi-layer underfloor heating pipe, made from a 5 layer composite material using PE-RT (Polyethylene of Raised Temperature resistance) as the inner and outer layers coupled with a 0.2 mm thick aluminium core with butt welded construction.

Maximum operating pressure 10bar; maximum operating temperature 70°C.

Highly energy efficient due to the aluminium inner core technology.

Easy to install and holds it's shape once positioned.

Specification:

- 16mm x 2.0mm
- Available in 100m, 150m, 200m, 500m coils
- Metre increments
- Lightweight
- Flexible



50 YEAR  
MANUFACTURER  
WARRANTY

## PE-RT Alu PE-RT Pipe

HSPAP100	100m Coil
HSPAP150	150m Coil
HSPAP200	200m Coil
HSPAP500	500m Coil



## Pipe Conduit

HSPC50	22mm x 25m Coil
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## 90° Pipe Support Bend

HSPS90	Accepts 15mm to 20mm Pipe
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# Manifolds and Actuators

## Manifolds (pre-assembled)

- Hetta nickel plated pre-assembled distribution manifold
- Comes complete with isolating ball valves, adjustable flow meters, fill and drain points, automatic air vents and pipe connectors for 16mm pipe. (15mm connectors available)
- Accepts manifold control pump pack

Manifolds	
HSMAN02	2 Port Manifold
HSMAN03	3 Port Manifold
HSMAN04	4 Port Manifold
HSMAN05	5 Port Manifold
HSMAN06	6 Port Manifold
HSMAN07	7 Port Manifold
HSMAN08	8 Port Manifold
HSMAN09	9 Port Manifold
HSMAN10	10 Port Manifold
HSMAN11	11 Port Manifold
HSMAN12	12 Port Manifold



## Actuators

- Hetta 230 volt actuator 2 wire, 3/4 " thread to manifold, normally closed
- The energy-saving LED diode signals system operation when the thermostat calls for heat

Actuators	
HSEANC02	2 Wire Actuator Valve



# Manifold Options

## Manifold Control Pack

- Provides controlled mixed temperature water to underfloor heating systems with a heat output up to 14kW
- Lightweight and compact in order to connect directly onto a standard manifold without the need for extra brackets or support
- The control pack consists of; mixing valve, A rated high efficiency Grundfos circulating pump, return elbow, manifold adaptor and all necessary seals
- Used in conjunction with 2-12 port manifolds, see page 08 for details

### Specification:

- Compact bolt on unit providing quick and simple installation
- Easy set up within the adjustable range of 35°C to 65°C
- Controls flow temperature to +/- 2°C even with changing boiler flow and return temperatures
- Manufactured to BS EN 1264-4

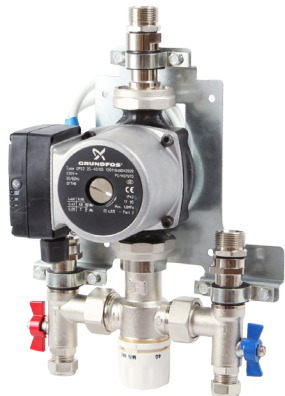


## Single Zone Control Pack

- Provides controlled mixed temperature water to underfloor heating systems with a heat output up to 3kW
- Pre-assembled on fixing plate
- The control pack consists of; mixing valve, A rated high efficiency Grundfos circulating pump

### Specification:

- Easy set up within the adjustable range of 35°C to 65°C
- Controls flow temperature to +/- 2°C even with changing boiler flow and return temperatures
- Manufactured to BS EN 1264-4



Manifold Control Packs	
HSMZCP01	Manifold Control Pack
HSSZCP01	Single Zone Control Pack

## Additional Components

				
Manifold Adaptor	3/4" Manifold Blank Cap	16mm Comp Coupling	16mm Comp Elbow	16mm x 1/2" Male Elbow
HSMC15 (15mm) HSMC16 (16mm)	HSBE01	HSSC16	HSEC16	HSECM16



# Complete Underfloor Heating Packs

The Hetta complete underfloor heating single zone pack contains everything required to install an underfloor heating solution to your chosen floor area.

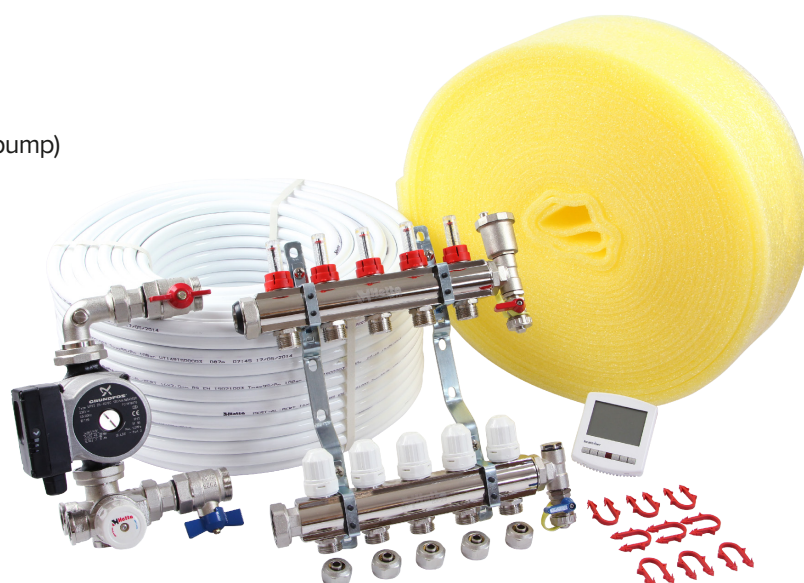
These packs are only suitable for floor areas where one zone (thermostat) control is required.

Complete UFH packs have sufficient pipe supply for the specified floor area, based upon 200mm pipe centres, assuming the manifold is centrally located.

Manifolds are pre-assembled and include isolating ball valves, adjustable flow meters, fill and drain points, automatic air vents and pipe connectors for 16mm pipe (15mm connectors available).

## Each pack includes the following:

- Hetta PE-RT Alu PE-RT pipe
- Manifold control pack (Grundfos A rated pump)
- Ported manifold & pipe connectors
- Edge insulation
- Pipe staples
- Programmable room thermostat (PRT)
- Installation guide



\* image for illustration puposes only

### Complete Underfloor Heating Packs

KIT20HP	20m² UFH Room Pack
KIT30HP	30m² UFH Room Pack
KIT40HP	40m² UFH Room Pack
KIT50HP	50m² UFH Room Pack
KIT60HP	60m² UFH Room Pack
KIT70HP	70m² UFH Room Pack
KIT80HP	80m² UFH Room Pack
KIT90HP	90m² UFH Room Pack
KIT100HP	100m² UFH Room Pack
KIT120HP	120m² UFH Room Pack
KIT140HP	140m² UFH Room Pack
KIT160HP	160m² UFH Room Pack

# Tools

### Ratchet Pipe Cutter

HSPCT01

£CALL

Professional grade ratchet pipe cutting tool, cleanly cuts all types of underfloor heating pipe.



### Pipe Decoiler

HSPD01

Hetta pipe decoiler facilitates the uncoiling of underfloor heating pipe.

A pipe coil is placed on the decoiler allowing automatic pipe uncoiling while subsequent pipe sections are laid.

Can be used with all types and diameters of underfloor heating pipe.



### Pipe Reaming Tool

HSPRT16

Reaming tool that re-rounds underfloor heating pipe prior to connection to the manifold or valve.



### Aluminium 60mm Staple Fixing Gun

HSPCIN01

Provides a quick and easy method of fixing pipe staples to secure underfloor heating pipe into an insulated surface. It replaces the requirement for manual fitting and provides improved working comfort.



# Controls and Wiring Centres

Controlling your underfloor heating could not be simpler with the wide range of mains wired, wireless and Wi-Fi thermostats and controls Hetta has to offer.

Mains Wired Digital



Wireless Touchscreen



## Mains Wired

Ideal choice if you are the build stage of a project and wires can be hidden or the installation does not lend itself to wireless or Wi-Fi technology.

## Wireless

The ideal choice if installing at the end of a project. Reduces installation costs. Using touchscreen thermostats allows you to place the thermostats in any area as they come with their own stand.

## Wi-Fi

Hard wired, but allows complete remote control of your heating system via your smart phone or tablet.



# Mains Wired System

- Hard wired 230v thermostats requiring 3 core cable
- Programmable thermostats are available with additional control for hot water
- For multiple room/zone control a compatible wiring centre is required

## Manual Dial Thermostat

DS1

DS1 Manual Dial Stat



## Digital Programmable Thermostat

PRT

PRT Digital Programmable Thermostat

PRTHW

PRTHW Prog Stat C/W Hot Water Func.



## Touchscreen Programmable Thermostat

PRTTS

PRTTS Touch Prog Stat

PRTHWTS

PRTHWTS Touch Prog Stat C/W Hot Water Func.



## Wiring Centres

UH2

UH2 4 Zone Wiring Centre

UH3

UH3 8 Zone Wiring Centre



# Wireless System

- Wireless controlled thermostats for simple installation, ideal for existing walls
- Digital and touchscreen models are both surface wall mounting
- Touchscreen model also includes table stand
- Programmable thermostats are available with additional control for hot water

## Wireless Digital Programmable Thermostat

PRT-W PRT-W Wireless Digital Programmable Thermostat  
 PRTHW-W PRTHW-W Wireless Prog Stat C/W Hot Water Func.



## Wireless Touchscreen Programmable Thermostat

PRTUWTS PRTUWTS Wireless Touchscreen Programmable Stat  
 PRTHWUWTS PRTHWUWTS Wireless Touchscreen Prog Stat C/W Hot Water Func.



## Wireless Wiring Centre

UH1-W UH1-W 8 Zone Wireless Wiring Centre



# Wi-Fi System NEW!

- Simply download the free app to control individual zones using your smart phone or tablet
- No technical computer knowledge required
- Wi-Fi control is enabled with the NEOHUB which is included in NEOKIT1 and NEOKIT2
- NEOHUB requires ethernet connection to broadband router
- For 2 or more zones a UH2 or UH3 wiring centre is required plus additional NEOSTATW thermostat(s)
- NEOKIT2 is required for hot water control
- NEOSTATW Thermostats and hot water unit are mains wired



## NEOKIT1

NEOKIT1 Single Zone Pack



## NEOKIT2

NEOKIT2 Single Zone Pack C/W Hot Water Unit



## NEO Thermostats

NEOSTATW NEOSTATW Neostat Programmable Thermostat



## Wiring Centres

UH2 UH2 4 Zone Wiring Centre  
 UH3 UH3 8 Zone Wiring Centre





Tech Support: 01925 747737

## Underfloor Heating Requirements

Heat Source	Central Heating Boiler Ground Source Heat Pump Air Source Heat Pump
Floor Construction	Solid Concrete Joists Existing
Insulation Level	Adequate Poor
Room Size(s)	
No. of Zoned Areas	
Manifold Location	
Wiring Option: Mains - Thermostat Option	Manual Dial Digital Programmable Digital Programmable C/W Hot Water Function Touchscreen Programmable Touchscreen Programmable C/W Hot Water Function
Wireless - Thermostat Option	Digital Programmable Digital Programmable C/W Hot Water Function Touchscreen Programmable Touchscreen Programmable C/W Hot Water Function
Wi- Fi - Thermostat	Kit 1 Hub & Digital Soft Touch Thermostat Kit 2 Hub & Digital Soft Touch Stat C/W Hot Water Function Digital Soft Touch Thermostat

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