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# RENEWABLES

## PRODUCT GUIDE



# RENEWABLE MARKET OVERVIEW

## ENERGY TRANSITION

### WHAT'S DRIVING THE CHANGES TO RENEWABLE ENERGY

**The UK Government has set a target that all new heating systems installed in UK homes below carbon or supporting new technologies (like hydrogen ready boilers) by 2035.**

Behind transport, buildings are the second largest source of emissions in the UK.

With this ever increasing focus on reducing our carbon footprint, and with the Government's 'Net Zero' carbon target by 2050; new products will continue to emerge and offer greener options for homeowners and installers to choose from.

The evolution of new products in the UK is unlikely to be a quick one. The UK market will still rely on boilers for the lifetime of any fitted today and beyond.

However, initially in the new build and social housing sectors, these new technologies will become more readily available as legislation and technology evolve to support the reduced emissions targets.



**Whilst the facts are still unclear some common thinking is developing on where the new technologies are best placed to support the renewables roll out:**

- Heat pumps, whilst the favoured technology, will take a number of years to get close to the Government's 600,000 installation / annual target. And the grant funding available only supports 90,000 in total over 3 years. (We would anticipate the capacity to build up to 100,000 ASHP units being sold within our one off sector over the next 3 or 4 years).

**Some observations on the new technologies include:**

- Hydrogen 20% mix would be a useful first step towards the overall emission reduction target.
- Legislation will drive the market, and is being set in stages over the next few years.

- Gas boilers will continue to make up the majority of the one off / replacement sector in the short to medium term, but in the knowledge that most are already 20% hydrogen ready. Then as the boiler technology develops we will see the transition to 100% hydrogen ready boilers, albeit operating on natural gas to start with until the infrastructure is upgraded.
- "Hydrogen ready" models will allow consumers to purchase with some peace of mind. And ensure they can support the Hydrogen take up assuming the infrastructure is provided.
- The final UK marketplace is likely to be a broad mix of all the available technologies as far as anyone can sensibly forecast at this time.

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|   | Hydrogen 20% | Hydrogen 100% | Heat Pumps | Heat Pump Cylinder | Electric Boilers | Solar | Air Conditioning | HIU | Electric Underfloor | HVO | HRU |
|---|--------------|---------------|------------|--------------------|------------------|-------|------------------|-----|---------------------|-----|-----|
| Ariston   |              |               | ✓          |                    |                  |       |                  |     |                     |     |     |
| Atlantic  |              |               | ✓          |                    |                  |       |                  |     |                     |     |     |
| Baxi  | ✓            | ◆             | ✓          | ✓                  |                  |       |                  |     |                     | ✓   |     |
| Bosch   | ✓            | ◆             | ✓          |                    |                  |       | ✓                | ✓   |                     |     | ✓   |
| Heatrae Sadia   |              |               |            |                    | ✓                | ✓     |                  |     |                     |     | ✓   |
| Gledhill  |              |               |            | ✓                  |                  |       | ✓                |     |                     |     |     |
| Glowworm  | ✓            |               |            |                    |                  |       |                  |     |                     |     |     |
| Grant   |              |               | ✓          | ✓                  |                  |       | ✓                |     |                     | ✓   |     |
| Ideal Heating   | ✓            | ◆             | ✓          | ✓                  |                  |       |                  | ✓   |                     |     |     |
| Keston  | ✓            |               |            |                    |                  |       |                  |     |                     |     |     |
| Main  | ✓            |               |            |                    |                  |       |                  |     |                     |     |     |
| Vaillant  | ✓            | ◆             | ✓          | ✓                  |                  |       | ✓                |     |                     |     |     |
| Viessmann   | ✓            | ◆             | ✓          | ✓                  |                  | ✓     |                  |     | ✓                   |     |     |
| Worcester Bosch   | ✓            | ◆             | ✓          | ✓                  |                  |       | ✓                | ✓   | ✓                   | ✓   |     |
| <span style="color: green;">✓ Available</span>              |              |               |            |                    |                  |       |                  |     |                     |     |     |
| <span style="color: red;">◆ In Development / Testing</span> |              |               |            |                    |                  |       |                  |     |                     |     |     |

# HYDROGEN

## A COLOURLESS, ODOURLESS, HIGHLY FLAMMABLE GAS

With reference to heating, hydrogen is viewed as a replacement for natural gas, either completely or as a partial replacement at a 20% blend.



## 100% HYDROGEN:

A hydrogen-ready boiler is a gas-fired heating boiler which is capable of burning either natural gas or pure (100%) hydrogen. So far these boilers are still in testing and development and unlikely to hit the mass market for a few years. Why is the Government not backing a 100% Hydrogen first approach?

There are a few reasons, firstly not all Hydrogen is green:

Hydrogen, in itself, is a clean fuel.

Manufacturing hydrogen fuel, however, is energy-intensive and can have carbon byproducts.

In addition there are Safety issues and infrastructure issues (relaying pipes to ensure leak proof supply) which leads to the conclusion it could take years to reassure the market that Hydrogen is safe. That said, new build communities with bespoke and dedicated infrastructure may lend themselves well to a safe and secure Hydrogen solution.

## 20% HYDROGEN:

The UK Government is working with industry to assess the safety, technical feasibility, and cost effectiveness of mixing 20% hydrogen into the existing gas supply.

Boilers are now being marked as “20% hydrogen blend” ready to signify that when the Government starts to add hydrogen to the main gas supply, they will work as intended, no parts or conversions will be needed; This gives homeowners and installers security that the boiler they have installed today will last into the future as the rollout of 20% hydrogen isn’t expected to begin until at least 2028.

As the majority of modern boilers are able to run on a blend of 20% hydrogen they are excluded from this document.

This technology feels like a quick win. By adding 20% hydrogen to natural gas, traditional boilers can take a step to become more environmentally friendly, and they predict this could deliver a 7% emissions reduction on natural gas and by using a blend of natural gas and 20% hydrogen the UK could save six million tonnes of carbon dioxide a year.

However, testing is currently underway to check the capabilities and safety of the current infrastructure to handle this move so it is not guaranteed.

# HEAT PUMPS

A heat pump is a relatively new technology in the UK although it's widely used in Scandinavia and many parts of Europe where there is an abundance of renewably sourced electricity.

**These pumps are available in two main types, Air & Ground. The UK domestic market is likely to dominate on air sourced heat pumps but in both cases the pump takes natural heat from the surrounding air or ground and converts this natural heat.**



Heat pumps run at lower temperatures than gas boilers (50 - 55°C as opposed to 75°C+) and this has a number of implications when replacing a gas boiler for domestic use.

- A cylinder is needed to store and further heat the water for hot water use. ASHP cylinders are more powerful than standard cylinders and tend to have dual elements to allow for the temperature rise needed to serve the hot water element in the household.
- Radiators will need to be extended or replaced to ensure sufficient heating in the household (or underfloor heating will be needed to supplement or replace radiator capacity existing).
- Electric boilers may be used in addition to ASHP to support hot water supply in domestic use and these are known as "Hybrid" solutions - these are further explained below.
- A small number of manufacturers have, or are just about to release a second generation of ASHP working at 75°C and reducing the reliance on additional power for hot water/radiator upgrades.

## Types of heat pumps:

ASHP - Air source heat pumps

- Split units
- Monoblock
- GSHP - Ground source heat pump

## Air source heat pumps

Air source heat pumps offer a choice of two systems: air to air or air to water, both offering significant savings compared with a conventional heating system.

The air source heat pumps convert the free and sustainable latent energy in the air into heat, delivering green, low-cost, energy-saving heating and hot water all year round.

Air source heat pumps are intended to be the sole source of heating and hot water for the home. Air to water heat pumps use the constant energy available in the air with a refrigerant circuit which allows the temperature to be boosted to a useful level for heating or hot water for the home. An air to air heat pump is an all-in-one heating and cooling system that is designed to provide year-round comfort.

## Hybrid systems

A hybrid system is a combination of two or more technologies generating heat to provide heating and hot water to the home or building.

The most common hybrid system design is an Air source heat pump and a boiler. Typically this would be a natural gas or LPG boiler, to provide additional heat output and maximising the efficiency of both the boiler and the heat pump.

## HEAT PUMPS



| CODE             | DESCRIPTION                         | MPN     |
|------------------|-------------------------------------|---------|
| <b>HEAT PUMP</b> |                                     |         |
| <b>Hot Water</b> |                                     |         |
| 26112201         | Nuos Plus Wi-Fi 200D Direct + Kit   | 3820027 |
| 26112301         | Nuos Plus Wi-Fi 250I Indirect + Kit | 3820028 |



# atlantic

## HEAT PUMPS



| CODE             | DESCRIPTION                    | MPN      |
|------------------|--------------------------------|----------|
| <b>HEAT PUMP</b> |                                |          |
| <b>Hot Water</b> |                                |          |
| 10285197         | Calypso FS 172 Litre Heat Pump | AH876509 |
| 10285198         | Calypso FS 210 Litre Heat Pump | AH886123 |

### Hot water Heat pumps

Built directly into a cylinder, with the purpose of generating hot water only, this style of heat pump is a great choice for those with limited space. They are also an option for properties that cannot move their entire heating supply to a heat pump. Hot water heat pumps are often paired with electric panel heaters.

**HEAT PUMPS**

| CODE              | DESCRIPTION         | MPN     |
|-------------------|---------------------|---------|
| <b>AIR SOURCE</b> |                     |         |
| Monobloc          |                     |         |
| 10359401          | Baxi HP40-11-1-PHMB | 7830572 |
| 10359601          | Baxi HP40-11-3-PHMB | 7830570 |
| 10359501          | Baxi HP40-13-1-PHMB | 7830571 |
| 10359701          | Baxi HP40-13-3-PHMB | 7830568 |
| 10359001          | Baxi HP40-4-1-PHMB  | 7830576 |
| 10359101          | Baxi HP40-5-1-PHMB  | 7830575 |
| 10359201          | Baxi HP40-7-1-PHMB  | 7830574 |
| 10359301          | Baxi HP40-8-1-PHMB  | 7830573 |
| Split             |                     |         |
| 10356801          | IDU3WH 4.5-8kW      | 7776947 |
| 10356501          | ODU 4.5kW Split     | 7776522 |
| 10356601          | ODU 6kW Split       | 7776579 |
| 10356701          | ODU 8kW Split       | 7776680 |

| CODE              | DESCRIPTION                         | MPN     |
|-------------------|-------------------------------------|---------|
| <b>AIR SOURCE</b> |                                     |         |
|                   | Heat Pump Cylinder                  |         |
| 10359801          | Baxi ASHP 210 Litre Cylinder        | 7837416 |
| 10359901          | Baxi ASHP 250 Litre Cylinder        | 7837491 |
| 10360001          | Baxi ASHP 300 Litre Cylinder        | 7837562 |
| 10357401          | Baxi Assure 210 Litre ASHP Cylinder | 7736225 |
| 10361501          | Baxi Assure 210 Litre ASHP Cylinder | 7837415 |
| 10357501          | Baxi Assure 250 Litre ASHP Cylinder | 7736226 |
| 10361601          | Baxi Assure 250 Litre ASHP Cylinder | 7837492 |
| 10357601          | Baxi Assure 300 Litre ASHP Cylinder | 7736227 |
| 10361701          | Baxi Assure 300 Litre ASHP Cylinder | 7837563 |

| CODE                            | DESCRIPTION                              | MPN     |
|---------------------------------|--|---------|
| <b>SPARES AND ACCESSORIES</b>   |  |         |
| Buffer Tank                     |  |         |
| 10360401                        | 40L BUFFER VESSEL                        | 7768655 |
| <b>Feet &amp; Supports</b>      |  |         |
| 10360501                        | RUBBER FLOOR SUPPORT EH879               | 7694974 |
| <b>Filter</b>                   |  |         |
| 10360301                        | MAGNETIC FILTER                          | 7768650 |
| <b>Back-Up Heaters</b>          |  |         |
| 10360101                        | ELECTRICAL BACK UP HEATER 3kW            | 7755564 |
| 10360201                        | ELECTRICAL BACK UP HEATER 4.5k           | 7755565 |
| <b>Installation Accessories</b> |  |         |
| 10360601                        | TEMPERATURE PROBE EXTENSION              | 7750595 |
| 10356401                        | Baxi Comfort Pack For 4.5 & 6kW          | 7773305 |
| 10358001                        | Baxi Comfort Pack For Monobloc 12 & 16kW | 7773304 |
| 10357901                        | Baxi Comfort Pack For Monobloc 57 & 9kW  | 7773303 |
| 10357701                        | Baxi Reassurance Pack For Monobloc       | 7773279 |
| 10357801                        | Baxi Reassurance Pack For Monobloc       | 7773300 |
| 10356201                        | Baxi Reassurance Pack For Split 4.5 & 6  | 7773301 |
| 10356301                        | Baxi Reassurance Pack For Split 8kW      | 7773302 |



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HPID13R32 &  
HPID17R32



[grantuk.com](http://grantuk.com)

## HEAT PUMPS



| CODE              | DESCRIPTION   | MPN         |
|-------------------|---|-------------|
| <b>AIR SOURCE</b> |   |             |
| <b>Monobloc</b>   |   |             |
| 107141            | Grant Aerona 3 10kW Inverter Driven Air Source Heat Pump                | HPIID10R32  |
| 10661001          | Grant Aerona <sup>3</sup> 13kW R32 Inverter Driven Air Source Heat Pump | HPIID13R32  |
| 107142            | Grant Aerona 3 17kW R32 Inverter Driven Air Source Heat Pump            | HPIID17R32  |
| 107140            | Grant Aerona 3 6kW Inverter Driven Air Source Heat Pump                 | HPIID6R32   |
| <b>Hybrid</b>     |   |             |
| 107146            | Grant Vortex Air 21/26kW Blue Flame Boiler & 6kw Heat Pump              | HPIDAIR2R32 |

| CODE                     | DESCRIPTION                                   | MPN          |
|--------------------------|---|--------------|
| <b>INSTALLATION KITS</b> |   |              |
| 10663310                 | Grant Aerona <sup>3</sup> installation pack A | HPIDR32PACKA |
| 10663311                 | Grant Aerona <sup>3</sup> installation pack B | HPIDR32PACKB |
| 10663312                 | Grant Aerona <sup>3</sup> installation pack C | HPIDR32PACKC |
| 106992                   | Grant Aerona 12 Litre Sealed System Kit       | HPAWSSK12    |
| 107062                   | Grant How Water Boost Kit Automatic           | HPDHWBK2     |
| 10663301                 | Grant Aerona <sup>3</sup> Installation Pack 1 | HPIDR32PACK1 |
| 10663101                 | Grant Aerona <sup>3</sup> Installation Pack 2 | HPIDR32PACK2 |

| CODE                       | DESCRIPTION   | MPN        |
|----------------------------|---|------------|
| <b>HEAT PUMP CYLINDERS</b> |   |            |
| 10663316                   | Quick Recovery Cylinder Plinth                              | MB-24      |
| 10663317                   | Grant Quick Recovery Integrated Single Coil 210 Lt cylinder | QRINTSC210 |
| 10663318                   | Grant Quick Recovery Single Coil 150 Lt cylinder            | QRSC150    |
| 10663326                   | Grant Quick Recovery Single Coil Slimline 150 Lt cylinder   | QRSC150SL  |
| 10663319                   | Grant Quick Recovery Single Coil 180 Lt cylinder            | QRSC180    |
| 10663327                   | Grant Quick Recovery Single Coil Slimline 180 Lt cylinder   | QRSC180SL  |
| 10663320                   | Grant Quick Recovery Single Coil 210 Lt Cylinder            | QRSC210    |
| 10663323                   | Quick Recovery Pre-Plumbed Single Coil 210 Lt cylinder      | QRSC210PP  |
| 10663328                   | Grant Quick Recovery Single Coil Slimline 210 Lt cylinder   | QRSC210SL  |
| 10663321                   | Grant Quick Recovery Single Coil 250 Lt cylinder            | QRSC250    |
| 10663324                   | Quick Recovery Pre-Plumbed Single Coil 250 Lt cylinder      | QRSC250PP  |
| 10663322                   | Grant Quick Recovery Single Coil 300 Lt Cylinder            | QRSC300    |
| 10663325                   | Quick Recovery Pre-Plumbed Single Coil 300 Lt cylinder      | QRSC300PP  |
| 10663329                   | Grant Quick Recovery Twin Coil 210 Lt cylinder              | QRTC210    |
| 10663330                   | Grant Quick Recovery Twin Coil 250 Lt cylinder              | QRTC250    |
| 10663331                   | Grant Quick Recovery Twin Coil 300 Lt cylinder              | QRTC300    |

## HEAT PUMP CYLINDERS



| CODE                       | DESCRIPTION       | MPN        |
|----------------------------|-------------------|------------|
| <b>HEAT PUMP CYLINDERS</b> |                   |            |
| 25838511                   | HP 180 2.5SQM EE  | PLUHP180   |
| 25838513                   | HP 180 Slim EE UV | PLUHP180SL |
| 25838514                   | HP 210HP3SQM EE   | PLUHP210   |
| 25838516                   | HP 210 Slim EE UV | PLUHP210SL |
| 25838517                   | HP 250HP3SQM EE   | PLUHP250   |
| 25838519                   | HP 300HP3SQM EE   | PLUHP300   |
| 25838521                   | HP 400 4SQM EE    | PLUHP400   |

**HEAT PUMPS**


| CODE                       | DESCRIPTION                                  | MPN      |
|----------------------------|--|----------|
| <b>AIR SOURCE</b>          |  |          |
| Monobloc                   |  |          |
| 10285171                   | Ideal Logic Air 10kw Monobloc Heat Pump      | AH750667 |
| 10285169                   | Ideal Logic Air 5kW Monobloc Heat Pump       | AH750665 |
| 10285170                   | Ideal Logic Air 8kW Monobloc Heat Pump       | AH750666 |
| <b>Heat Pump Cylinders</b> |  |          |
| 10285173                   | Ideal Logic Air DHW Cyl PP 150 CBoc 1Z SL    | 236203   |
| 10285172                   | Ideal Logic Air DHW CYL PP 150 Cbox 1Z       | 236198   |
| 10285174                   | Ideal Logic Air DHW Cyl PP 180 Cbox 1Z       | 236199   |
| 10285176                   | Ideal Logic Air DHW Cyl PP 180 Cbox Buff 1Z  | 236206   |
| 10285177                   | Ideal Logic Air DHW Cyl PP 180 Cbox Buff 22  | 236207   |
| 10285180                   | Ideal Logic Air DHW Cyl PP 210 Cbox Buff 1Z  | 236208   |
| 10285181                   | Ideal Logic Air DHW Cyl PP 210 Cbox Buff 22  | 236209   |
| 10285178                   | Ideal Logic Air DHW Cyl PP 210 Cbox LL 2Z    | 236200   |
| 10285179                   | Ideal Logic Air DHW Cyl PP 210 Cbox LL 2Z SL | 236205   |
| 10285183                   | Ideal Logic Air DHW Cyl PP 250 Cbox Buff 1Z  | 236210   |
| 10285184                   | Ideal Logic Air DHW Cyl PP 250 Cbox Buff 22  | 236211   |
| 10285182                   | Ideal Logic Air DHW Cyl PP 250 Cbox LL 2Z    | 236201   |
| 10285186                   | Ideal Logic Air DHW Cyl PP 300 Cbox Buff 1Z  | 236212   |
| 10285187                   | Ideal Logic Air DHW Cyl PP 300 Cbox Buff 22  | 236213   |
| 10285185                   | Ideal Logic Air DHW Cyl PP 300 Cbox LL 2Z    | 236202   |
| 10285175                   | Ideal Logic Air DWH Cyl PP 180 Cbox 1Z SL    | 236204   |

| CODE                       | DESCRIPTION  | MPN      |
|----------------------------|--|----------|
| <b>AIR SOURCE</b>          |  |          |
| Split                      |  |          |
| 10285105                   | Ideal Alfea Excellia A.I. 11kW Heat Pump (ODU&IDU)   | AH526245 |
| 10285106                   | Ideal Alfea Excellia A.I. 14 Heat Pump (ODU&IDU)     | AH526243 |
| 10285107                   | Ideal Alfea Excellia A.I. 16 TRI Heat Pump (ODU&IDU) | AH526244 |
| 10285104                   | Ideal Alfea Extensa A.I. 10 R32 Heat Pump (ODU&IDU)  | AH526348 |
| 10285101                   | Ideal Alfea Extensa A.I. 5 R32 Heat Pump (ODU&IDU)   | AH526349 |
| 10285102                   | Ideal Alfea Extensa A.I. 6 R32 Heat Pump (ODU&IDU)   | AH526346 |
| 10285103                   | Ideal Alfea Extensa A.I. 8 R32 Heat Pump (ODU&IDU)   | AH526347 |
| <b>Heat Pump Cylinders</b> |  |          |
| 10285108                   | Ideal 180 Heat Pump DHW Cylinder                     | 219433   |
| 10285109                   | Ideal 180 Heat Pump DHW Cylinder Slim                | 219437   |
| 10285110                   | Ideal 210 Heat Pump DHW Cylinder                     | 219434   |
| 10285111                   | Ideal 210 Heat Pump DHW Cylinder Slim                | 219438   |
| 10285112                   | Ideal 250 Heat Pump DHW Cylinder                     | 219435   |
| 10285113                   | Ideal 300 Heat Pump DHW Cylinder                     | 219436   |

| CODE                            | DESCRIPTION                               | MPN      |
|---------------------------------|---|----------|
| <b>SPARES AND ACCESSORIES</b>   |   |          |
| Hose                            |   |          |
| 10285194                        | Ideal Flexible Hose 500mm                 | 236909   |
| 10285195                        | Ideal Flexible Hose 750mm                 | 236910   |
| <b>Installation accessories</b> |   |          |
| 10285120                        | Ideal High Flow Kit                       | 74077    |
| 10285121                        | Ideal Kit Master Cascade                  | 75318    |
| 10285122                        | Ideal Kit slave cascade                   | 75320    |
| 10285196                        | Ideal Logic Air Magnetic System Filter    | 236911   |
| 10285193                        | Ideal Y Strainer                          | 236740   |
| 10285192                        | Ideal Filter Ball Valve                   | 236738   |
| 10285124                        | Ideal 2 Zones Kit (extension card includ) | AH570630 |
| 10285123                        | Ideal Balancing vessel (decoupling bottl) | AH073957 |
| <b>Buffer Tanks</b>             |   |          |
| 10285118                        | Ideal Buffer Tank 25ltr                   | AH700436 |
| 10285119                        | Ideal Buffer Tank 50ltr                   | AH700437 |
| 10285125                        | Ideal Condensate collector Extensa R32 O  | AH074049 |
| <b>Pipe</b>                     |   |          |
| 10285126                        | Ideal Pre-insulated twin refrigerent pip  | 809155   |
| 10285127                        | Ideal Pre-insulated twin refrigerent pip  | 809157   |
| 10285128                        | Ideal Pre-insulated twin refrigerent pip  | 809160   |
| 10285129                        | Ideal Pre-insulated twin refrigerent pip  | 809165   |
| 10285130                        | Ideal Pre-insulated twin refrigerent pip  | 809565   |
| 10285131                        | Ideal Pre-insulated twin refrigerent pip  | 809567   |
| 10285132                        | Ideal Pre-insulated twin refrigerent pip  | 809570   |
| 10285133                        | Ideal Pre-insulated twin refrigerent pip  | 809575   |
| <b>Feet and Support</b>         |   |          |
| 10285114                        | Ideal Rubber Antivibration Feet 600mm     | AH809536 |
| 10285115                        | Ideal Wall Hung Support 560 mm            | AH875033 |
| <b>Heating Controls</b>         |   |          |
| 10285188                        | Ideal Halo Air 1-Zone                     | 234819   |
| 10285189                        | Ideal Halo Air RF 2-Zone                  | 234791   |
| 10285190                        | Ideal Halo Air Wi-Fi 1-Zone               | 234790   |
| 10285191                        | Ideal Halo Air Wi-Fi 2-Zone               | 234792   |
| 10285116                        | Ideal Navalink A59 INTER                  | AH074232 |
| 10285117                        | Ideal Navalink RF Signal Extender         | AH909197 |

## HEAT PUMPS



| CODE              | DESCRIPTION   | MPN        |
|-------------------|---|------------|
| <b>AIR SOURCE</b> |   |            |
| <b>Monobloc</b>   |   |            |
| 10595101          | Vaillant aroTHERM plus 10 kW                              | 10037214   |
| 10596101          | Vaillant aroTHERM Plus 10 kW + Hydraulic Module           | 10037209   |
| 10595601          | Vaillant aroTHERM plus 10 kW + uniTOWER                   | 10037204   |
| 10595201          | Vaillant aroTHERM plus 12 kW                              | 10037215   |
| 10596201          | Vaillant aroTHERM Plus 12 kW + Hydraulic Module           | 10037210   |
| 10595701          | Vaillant aroTHERM plus 12 kW + uniTOWER                   | 10037205   |
| 10594801          | Vaillant aroTHERM plus 3.5 kW                             | 10037211   |
| 10595801          | Vaillant aroTHERM plus 3.5 kW + Hydraulic Module          | 10037206   |
| 10595301          | Vaillant aroTHERM plus 3.5 kW + uniTOWER                  | 10037201   |
| 10594901          | Vaillant aroTHERM plus 5 kW                               | 10037212   |
| 10595901          | Vaillant aroTHERM plus 5 kW + Hydraulic Module            | 10037207   |
| 10595401          | Vaillant aroTHERM plus 5 kW + uniTOWER                    | 10037202   |
| 10595001          | Vaillant aroTHERM plus 7 kW                               | 10037213   |
| 10596001          | Vaillant aroTHERM plus 7 kW + Hydraulic Module            | 10037208   |
| 10595501          | Vaillant aroTHERM plus 7 kW + uniTOWER                    | 10037203   |
| <b>Split</b>      |   |            |
| 105158            | Vaillant aroTHERM 11kW Heat Pump                          | 20257348   |
| 105182            | Vaillant aroTHERM 5kW Air To Water Heat Pump 0020257346   | 20257346   |
| 105120            | Vaillant aroTHERM 5kW ASHP *0020196231                    | 0020196231 |
| 1051901           | Vaillant AroTherm 7kW Split                               | 10031877   |
| 105102            | Vaillant aroTHERM 8kW Air To *Water Heat Pumps 0020175478 | 0020175478 |
| 105147            | Vaillant Arotherm Heat Pump 8kW                           | 20257347   |
| 105150            | Vaillant Arotherm VWL15/2 Air To Water Heat Pump          | 20257349   |
| 105642            | Vaillant auroTHERM 11kW Kit                               | 20257352   |
| <b>Hybrid</b>     |   |            |
| 105148            | Vaillant aroTHERM 5kw Hybrid                              | 20257350   |
| 105119            | Vaillant aroTHERM 5kW Hybrid *System 0020196233           | 0010031877 |
| 10596601          | Vaillant aroTHERM plus 10 kW Hybrid                       | 10037937   |
| 10597101          | Vaillant aroTHERM plus 10 kW Hybrid For Incumbent Boiler  | 10037942   |
| 10596701          | Vaillant aroTHERM plus 12 kW Hybrid                       | 10037938   |
| 10597201          | Vaillant aroTHERM plus 12 kW Hybrid For Incumbent Boiler  | 10037943   |

| CODE                       | DESCRIPTION  | MPN      |
|----------------------------|--|----------|
| <b>AIR SOURCE</b>          |  |          |
| <b>Hybrid</b>              |  |          |
| 10596301                   | Vaillant aroTHERM plus 3.5 kW Hybrid                       | 10037934 |
| 10596801                   | Vaillant aroTHERM plus 3.5 kW Hybrid For Incumbent Boiler  | 10037939 |
| 10596401                   | Vaillant aroTHERM plus 5 kW Hybrid                         | 10037935 |
| 10596901                   | Vaillant aroTHERM plus 5kW Hybrid For Incumbent Boiler     | 10037940 |
| 10596501                   | Vaillant aroTHERM plus 7 kW Hybrid                         | 10037936 |
| 10597001                   | Vaillant aroTHERM plus 7 kW Hybrid For Incumbent Boiler    | 10037941 |
| <b>Hot Water</b>           |  |          |
| 10518301                   | aroSTOR 200L HWHP  | 10031862 |
| 10518401                   | aroSTOR 270L HWHP  | 10031863 |
| 10031863                   | Vaillant aroSTOR 270 Litre Cylinder                        | 10518401 |
| <b>Water Source</b>        |  |          |
| 10598019                   | Vaillant flexoTHERM Water Source Heat Pump 19kW            | 20257362 |
| <b>Ground Source</b>       |  |          |
| 10598201                   | Vaillant flexoTHERM 8kW Ground Source Heat Pump - 400v     | 20257364 |
| 105754                     | Vaillant flexoTHERM 11kW Grou*Source Heat Pump             | 20257360 |
| 105753                     | Vaillant Ground Source Heat *Pump 8kW(230v)                | 20221331 |
| <b>Heat Pump Cylinders</b> |  |          |
| 10524001                   | Vaillant 150 Litre Heat Pump Cylinder Pre Plumbed          | 20237129 |
| 10547601                   | Vaillant 250 Litre Heat Pump Unvented Pre-Plumbed Cylinder | 20237131 |
| 10545801                   | Vaillant 300 Litre Heat Pump Unvented Pre-Plumbed Cylinder | 20237132 |
| 10521701                   | Vaillant Heat Pump 150 Litre Cylinder                      | 20235271 |
| 10521801                   | Vaillant Heat Pump 200 Litre Cylinder                      | 20235272 |
| 10521901                   | Vaillant Heat Pump 250 Litre Cylinder                      | 20235273 |
| 10514901                   | Vaillant Unistor 210 Cylinder Heat Pump                    | 20237130 |
| 105215                     | Vaillant 550 Litre Open Vent Cylinder Twin Coil            | 10019234 |
| <b>Buffer Cylinder</b>     |  |          |
| 105137                     | Vailnt allSTOR 300 Ltr Tank & Insulation                   | 10015130 |
| 105140                     | Vaillant allSTOR 1000 Litre Tank & Insulation              | 10039301 |
| 105141                     | Vaillant allSTOR 1500 Litre Tank & Insulation              | 10039302 |
| 105142                     | Vaillant allSTOR 2000 Litre Tank & Insulation              | 10039303 |
| 105138                     | Vaillant allSTOR 500 Litre Tank & Insulation               | 10015131 |
| 105139                     | Vaillant allSTOR 800 Litre Tank & Insulation               | 10039300 |

| CODE                            | DESCRIPTION                                       | MPN                                   |
|---------------------------------|---|---------------------------------------|
| <b>SPARES AND ACCESSORIES</b>   |   |                                       |
| <b>Buffer Tank</b>              |   |                                       |
| 10511201                        | Vaillant 45 Litre Buffer                          | 0010034126<br>306787&<br>4*0010038132 |
| 105152                          | Vailnt 100 Ltr WM Buffer cyl                      | 20250167                              |
| 105757                          | Vailnt 200 Ltr Buffer cyl                         | 20250168                              |
| <b>Feet &amp; Supports</b>      |   |                                       |
| 10519001                        | Vaillant Small Set Of Rubber Feet                 | 20252091                              |
| 105114                          | Vailnt 600mm Anti-Vibration Feet (Pr)             | 20250226                              |
| <b>Installation Accessories</b> |   |                                       |
| 10512101                        | Vaillant aroTHERM Bracket                         | 20250224                              |
| 105113                          | Vailnt at Pump Flexible Ho 750mm 1 Inch           | 20165288                              |
| 10518501                        | Vaillant 90 degree Elbow D 160mm                  | 20205773                              |
| 10518701                        | Vaillant aroSTOR Twin Flue Kit VWL 290            | 20205775                              |
| 105649                          | Vaillant aroTHERM exclusiv VT*570/2 OnRoof S/P x2 | 0020078686<br>0020078686              |
| 10518601                        | Vaillant Insulated Duct D 160mm L 10m             | 20205774                              |
| 10597601                        | Vaillant uniTOWER Connection Kit On Wall          | 10027981                              |
| 10545902                        | Vaillant VR 32 B                                  | 20235465                              |
| 105756                          | Vailnt Flexotrm Right Angle Conn t                | 20212716                              |
| 10597701                        | Vaillant Mono HP Connect Kit- Ground Inst         | 10027971                              |
| 10597801                        | Vaillant Mono HP Connect Kit- Ground Inst         | 10027972                              |
| 10597901                        | Vaillant Mono HP Connect Kit-Wall Instal          | 10027974                              |
| <b>Other Accessories</b>        |   |                                       |
| 105104                          | Vaillant aroTHERM In-Line 6kW Back Up Heater      | 20222286                              |
| 10598301                        | Vaillant Brine Filling Station                    | 20106265                              |
| 105159                          | Vaillant Heat Exchange Module                     | 20222285                              |
| 10598101                        | Vaillant Snow Spacer                              | 10027984                              |
| 10597501                        | Vaillant uniTOWER Decoupling Module ( La          | 10027973                              |
| 10597401                        | Vaillant uniTOWER Decoupling Module (Sma          | 10027982                              |
| 105809                          | Vailnt Fitting Pack Add On For DN16               | 20088207                              |
| 10545701                        | Vaillant 3 Zone Distribution Manifold             | 307597                                |
| <b>Pipe</b>                     |   |                                       |
| 10598001                        | Vaillant Mono HP Connect Kit Straight Pipe        | 10027976                              |
| 10512001                        | Vaillant Twin refrigerant pipes 10m 3/8'          | 20250306                              |
| 10597301                        | Vaillant uniTOWER Connect Kit (HP Circuit)        | 10027979                              |
| 10545601                        | Vaillant VDM20 Pump Group With 6.3m H Mi          | 20191813                              |
| 10543101                        | Vaillant VDM25 Pump Group With 8m Mixer           | 20191788                              |
| 10545901                        | Vaillant 28mm Ball Filter Valve                   | 10038133                              |
| 105669                          | Vailnt Solar Discharge Vesl                       | 20145563                              |
| 10598401                        | Vaillant Flexotherm Brine                         | 20261123                              |
| 105715                          | Vailnt geoTRM Brine Conc Ground 8.25Ltr           | 307095                                |

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Poole **01202 733 510** Wakefield **01924 288 700**

**HEAT PUMPS**


| CODE              | DESCRIPTION   | MPN     |
|-------------------|---|---------|
| <b>AIR SOURCE</b> |   |         |
| <b>Monobloc</b>   |   |         |
| 11275530          | Viessmann Vitocal 100-A AWO-M-AF 101.A10                          | Z018451 |
| <b>Monobloc</b>   |   |         |
| 11275553          | Viessmann Vitocal 150-A 10kW Heat Pump                            | Z023212 |
| 11275554          | Viessmann Vitocal 150-A 13kW Heat Pump                            | Z023213 |
| 11275555          | Viessmann Vitocal 150-A 16kW Heat Pump                            | Z023214 |
| 11275550          | Viessmann Vitocal 150-A 4kW Heat Pump                             | Z026436 |
| 11275551          | Viessmann Vitocal 150-A 6kW Heat Pump                             | Z026437 |
| 11275552          | Viessmann Vitocal 150-A 8kW Heat Pump                             | Z026438 |
| <b>Monobloc</b>   |   |         |
| 11275559          | Viessmann Vitocal 151-A 10kW Heat Pump                            | Z024620 |
| 11275560          | Viessmann Vitocal 151-A 13kW Heat Pump                            | Z024621 |
| 11275561          | Viessmann Vitocal 151-A 16kW Heat Pump                            | Z024622 |
| 11275556          | Viessmann Vitocal 151-A 4kW Heat Pump                             | Z026961 |
| 11275557          | Viessmann Vitocal 151-A 6kW Heat Pump                             | Z026962 |
| 11275558          | Viessmann Vitocal 151-A 8kW Heat Pump                             | Z026963 |
| <b>Monobloc</b>   |   |         |
| 11275518          | Viessmann Vitocal 200-A Heat & Cooling (Inc. Cylinder) A04 4.2kW  | Z017309 |
| 11275519          | Viessmann Vitocal 200-A Heat & Cooling (Inc. Cylinder) A06 5.7kW  | Z017310 |
| 11275520          | Viessmann Vitocal 200-A Heat & Cooling (Inc. Cylinder) A08 7.0kW  | Z017311 |
| 11275521          | Viessmann Vitocal 200-A Heat & Cooling (Inc. Cylinder) A10 9.5kW  | Z017312 |
| 11275522          | Viessmann Vitocal 200-A Heat & Cooling (Inc. Cylinder) A13 10.3kW | Z017313 |
| 11275523          | Viessmann Vitocal 200-A Heat & Cooling (Inc. Cylinder) A16 11.8kW | Z017314 |

| CODE              | DESCRIPTION  | MPN     |
|-------------------|--|---------|
| <b>AIR SOURCE</b> |  |         |
| <b>Monobloc</b>   |  |         |
| 11275506          | Viessmann Vitocal 200-A Heat & Cooling A04 4.2kW             | Z015192 |
| 11275507          | Viessmann Vitocal 200-A Heat & Cooling A06 5.7kW             | Z015193 |
| 11275508          | Viessmann Vitocal 200-A Heat & Cooling A08 7.0kW             | Z015194 |
| 11275509          | Viessmann Vitocal 200-A Heat & Cooling A10 9.5kW             | Z015195 |
| 11275510          | Viessmann Vitocal 200-A Heat & Cooling A13 10.3kW            | Z015196 |
| 11275511          | Viessmann Vitocal 200-A Heat & Cooling A16 11.8kW            | Z015197 |
| <b>Monobloc</b>   |  |         |
| 11275513          | Viessmann Vitocal 200-A Heat Only (Inc. Cylinder) A06 5.7kW  | Z017304 |
| 11275514          | Viessmann Vitocal 200-A Heat Only (Inc. Cylinder) A08 7.0kW  | Z017305 |
| 11275515          | Viessmann Vitocal 200-A Heat Only (Inc. Cylinder) A10 9.5kW  | Z017306 |
| 11275517          | Viessmann Vitocal 200-A Heat Only (Inc. Cylinder) A16 11.8kW | Z017308 |
| <b>Monobloc</b>   |  |         |
| 11275500          | Viessmann Vitocal 200-A Heat Only A04 4.2kW                  | Z015201 |
| 11275501          | Viessmann Vitocal 200-A Heat Only A06 5.7kW                  | Z015202 |
| 11275502          | Viessmann Vitocal 200-A Heat Only A08 7.0kW                  | Z015203 |
| 11275503          | Viessmann Vitocal 200-A Heat Only A10 9.5kW                  | Z015204 |
| 11275504          | Viessmann Vitocal 200-A Heat Only A13 10.3kW                 | Z015205 |
| 11275505          | Viessmann Vitocal 200-A Heat Only A16 11.8kW                 | Z015206 |
| <b>Monobloc</b>   |  |         |
| 11275512          | Viessmann Vitocal 222-A Heat Only (Inc. Cylinder) A04 4.2kW  | Z017303 |

| CODE                          | DESCRIPTION                               | MPN     |
|-------------------------------|---|---------|
| <b>SPARES AND ACCESSORIES</b> |   |         |
| <b>Feet and Supports</b>      |   |         |
| 11275538                      | Viessmann Support for installing the out  | ZK02929 |
| <b>Installation</b>           |   |         |
| 11275547                      | Viessmann Cap set                         | ZK02933 |
| 11275546                      | Viessmann Carrying handles for outdoor u  | ZK02931 |
| 11275548                      | Viessmann Electric ribbon heater          | ZK02935 |
| 11275531                      | Viessmann Vitocell 100-E SVPA 40L (Backp) | ZK03801 |
| 11275524                      | Viessmann Vitocell 100-W SVPA 46L         | Z015310 |
| 11275527                      | Viessmann Hydraulic connection set 10m    | 7521274 |
| 11275528                      | Viessmann Hydraulic connection set 15m    | 7521275 |
| 11275529                      | Viessmann Hydraulic connection set 20m    | 7521276 |
| 11275526                      | Viessmann Hydraulic connection set 5m     | 7521273 |
| 11275535                      | Viessmann Platform for unfinished floors  | 7417925 |
| 11275539                      | Viessmann Bracket set for mounting the o  | ZK02930 |
| 11275544                      | Viessmann Floorstanding installation con  | ZK02938 |
| 11275533                      | Viessmann Heating circuit connection set  | ZK02959 |
| 11275532                      | Viessmann Heating circuit connection set  | ZK02960 |
| 11275545                      | Viessmann Wall mounting connection set    | ZK02939 |
| <b>Valves</b>                 |   |         |
| 11275534                      | Viessmann Ball valve with filter          | ZK03206 |
| <b>Water Treatment</b>        |   |         |
| 11275549                      | Viessmann Special cleaner                 | 7249305 |
| <b>Heating Controls</b>       |   |         |
| 11275536                      | Viessmann Contact thermostat              | 7452646 |
| 11275537                      | Viessmann Frost stat                      | 7179164 |

## HEAT PUMPS



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## HEAT PUMPS



| CODE               | DESCRIPTION                               | MPN        |
|--------------------|---|------------|
| <b>AIR SOURCE</b>  |   |            |
| <b>Monobloc</b>    |   |            |
| 10770001           | Worcester CS700iAW 5 Outdoor Unit         | 8738210255 |
| 10770101           | Worcester CS700iAW 7 Outdoor Unit         | 8738210256 |
| 10770201           | Worcester CS700iAW 9 Outdoor Unit         | 8738210257 |
| 10770301           | Worcester CS7000iAW 13 Outdoor Unit       | 7738602089 |
| 10770401           | Worcester CS700iAW 17 Outdoor Unit        | 7738601998 |
| <b>Monobloc</b>    |   |            |
| 10770501           | Worcester CS7400iAW 5 Outdoor Unit        | 7738602075 |
| 10770601           | Worcester CS7400iAW 7 Outdoor Unit        | 7738602076 |
| <b>Indoor Unit</b> |   |            |
| 10770701           | Worcester AWE Indoor Unit 5-9             | 7738602107 |
| 10770801           | Worcester AWE Indoor Unit 13-17           | 7738602108 |
| <b>Split</b>       |   |            |
| 10784301           | Worcester CS3400iAWS 4 OR-S               | 8750722680 |
| 10784401           | Worcester CS3400iAWS 6 OR-S               | 8750722681 |
| 10784501           | Worcester CS3400iAWS 8 OR-S               | 8750722682 |
| 10784601           | Worcester CS3400iAWS 10 OR-S              | 8750722683 |
| <b>Indoor Unit</b> |   |            |
| 10784701           | Worcester Bosch AWE 4-10                  | 7738602259 |
| <b>Hybrid</b>      |   |            |
| 10784801           | Worcester Compress Hybrid HC3400iAWS      | 8738808679 |
| 10771401           | Worcester Compress Hybrid 7000iAW AWM 5-9 | 8732948754 |

| CODE                       | DESCRIPTION  | MPN        |
|----------------------------|--|------------|
| <b>AIR SOURCE</b>          |  |            |
| <b>Monobloc</b>            |  |            |
| 10786001                   | Bosch Compress 5800i AW Heat Pump 4kW Outdoor Unit                 | 8738213464 |
| 10786101                   | Bosch Compress 5800i AW Heat Pump 5kW Outdoor Unit                 | 8738213465 |
| 10786201                   | Bosch Compress 5800i AW Heat Pump 7kW Outdoor Unit                 | 8738213466 |
| 10786301                   | Bosch Compress 5800i Wall-hung Indoor Unit                         | 8738214990 |
| <b>Heat Pump Cylinders</b> |  |            |
| 10786401                   | Bosch Compress 5800i AW 180l Slim Pre-plumbed Cylinder Indoor Unit | 7731600271 |
| 10786501                   | Bosch Compress 5800i AW 210l Pre-plumbed Cylinder Indoor Unit      | 7731600272 |
| 10786601                   | Bosch Compress 5800i AW 250l Pre-plumbed Cylinder Indoor Unit      | 7731600273 |
| 10770901                   | Worcester Green Storage WB Range Heat Pump 150                     | 7733601189 |
| 10771001                   | Worcester Green Storage WB Range Heat Pump 180                     | 7733601333 |
| 10771101                   | Worcester Green Storage WB Range Heat Pump 210                     | 7733601334 |
| 10771201                   | Worcester Green Storage WB Range Heat Pump 250                     | 7733601335 |
| 10771301                   | Worcester Green Storage WB Range Heat Pump 300                     | 7733601336 |

| CODE                          | DESCRIPTION                              | MPN        |
|-------------------------------|--|------------|
| <b>AIR SOURCE</b>             |  |            |
| <b>Monobloc</b>               |  |            |
| 10788101                      | Compress 2000 AWF 4kW                    | 7738602277 |
| 10788201                      | Compress 2000 AWF 6kW                    | 7738602278 |
| 10788301                      | Compress 2000 AWF 8kW                    | 7738602279 |
| 10788401                      | Compress 2000 AWF 10kW                   | 7738602280 |
| 10788501                      | Compress 2000 AWF 12kW                   | 7738602281 |
| 10788601                      | Compress 2000 AWF 14kW                   | 7738602282 |
| 10788701                      | Compress 2000 AWF 16kW                   | 7738602283 |
| 10788801                      | Compress 2000 AWF 18kW                   | 7738602287 |
| 10788901                      | Compress 2000 AWF 22kW                   | 7738602288 |
| 10789001                      | Compress 2000 AWF 26kW                   | 7738602289 |
| 10789101                      | Compress 2000 AWF 30kW                   | 7738602290 |
| <b>SPARES AND ACCESSORIES</b> |  |            |
| <b>Buffer Tank</b>            |  |            |
| 10771601                      | Worcester 50 Litre Buffer Tank           | 7716161061 |
| 107842                        | W/ster AW / GS 120 Ltr Buffer Tank       | 8718544081 |
| 10771501                      | Worcester 120 Litre Buffer Tank          | 7735500777 |
| <b>Cable</b>                  |  |            |
| 10772801                      | Worcester CANbus Cable 2x20x0.75mm 15m   | 8738206183 |
| 10772901                      | Worcester CANbus Cable 2x20x0.75mm 30m   | 8738206184 |
| 107836                        | W/ster Gsource Split Htg Cable Kit 5 Mtr | 7748000318 |

| CODE                            | DESCRIPTION                               | MPN        |
|---------------------------------|---|------------|
| <b>SPARES AND ACCESSORIES</b>   |   |            |
| <b>Installation Accessories</b> |   |            |
| 10751901                        | Worcester Greenstar Security Fixings      | 7733600281 |
| 107385                          | Worcester Wall Mounting Frame             | 7716192354 |
| 10772101                        | Worcester Assembly INPA Hose              | 8733716993 |
| 10772701                        | Worcester 3-Way Valve(WW28-1)             | 8738201411 |
| 108923                          | W/ster FKA4 On Roof Conn                  | 7739300439 |
| 107840                          | Canbus Cble                               | 7748000040 |
| 108983                          | W/ster Greenstore Air Compressor          | 7716192422 |
| 108984                          | W/ster Greenstore Compressor Conn Kit     | 7716181103 |
| 108982                          | W/ster Greenstore Filling Pump Ho Kit     | 7716192421 |
| 107837                          | W/ster Gsource Split DHW 3 Way Vlv/Snsr   | 7738600251 |
| 108981                          | Worcester 140 Litre Filling Bin           | 7716192420 |
| 10772601                        | Worcester 3-Way Valve(WWW22-1)            | 8738201412 |
| 10773401                        | Worcester Alarm Buzzer                    | 8738206696 |
| 10771901                        | Worcester Bracket Kit For MM100           | 8738205073 |
| 10822901                        | Worcester Branch Joint For Twin Systems   | 8733500631 |
| 10785701                        | Worcester Connect-Key Set K30             | 8750742716 |
| 10823101                        | Worcester Connection Module MC-R          | 7733701597 |
| 10772501                        | Worcester Dew Point Sensor                | 7747204698 |
| 10784901                        | Worcester DHW / Flow Sensor 4m            | 8738206017 |
| 10771801                        | Worcester Filterset                       | 7736604293 |
| 10785501                        | Worcester Floor Mounting Kit              | 7716161065 |
| 10823001                        | Worcester Gateway Connector               | 7733701951 |
| 10772201                        | Worcester Heating Cable CSC/TS 2m/30W/23  | 7719003296 |
| 10772301                        | Worcester Heating Cable CSC/TS 3m/45W/23  | 7719003297 |
| 10772401                        | Worcester Heating Cable CSC/TS 5m/75W/23  | 7719003298 |
| 10785401                        | Worcester Heating Cables                  | 7738602276 |
| 10772001                        | Worcester MM100 Mixer                     | 7738110140 |
| 10785001                        | Worcester Sensor 4m T1/T4 Nr.1133         | 7719002853 |
| 10773301                        | Worcester Sound Hood 13-17kW(Back)        | 8733709042 |
| 10773201                        | Worcester Sound Hood 13-17kW(Front)       | 8733709289 |
| 10773101                        | Worcester Sound Hood 5-9kW(Back)          | 8733709037 |
| 10773001                        | Worcester Sound Hood 5-9kW(Front)         | 8733709284 |
| 10785601                        | Worcester Wall Mounting                   | 7747222358 |
| <b>Pipe</b>                     |   |            |
| 10785101                        | Worcester Pipe Refrigerant 1/2_1/4 10m    | 7733701502 |
| 10785201                        | Worcester Pipe Refrigerant 1/2_1/4 20m    | 7733701503 |
| 10785301                        | Worcester Pipe Refrigerant 1/4_5/8 20m    | 7716842659 |
| <b>Heating Controls</b>         |   |            |
| 10763201                        | Worcester Infrared Room Controller (ARC)  | 7733700120 |
| 10763301                        | Worcester Infrared Room Controller (ARC)  | 7739832509 |
| 10763401                        | Worcester Infrared Room Controller (ARC)  | 7739832706 |
| 10759701                        | Worcester Wired Room Controller           | 7739835666 |
| 10763501                        | Worcester Wired Room Controller (ARC R-1) | 7739838309 |
| 10822701                        | Worcester Wired Room Controller(CRC R-1)  | 7733701903 |
| 107431                          | W/ster 4122 Modular Digital WM Cntr Unit  | 30008934   |
| 107430                          | W/ster 4122 Modular Digital WM Cntr Unit  | 30009078   |
| 107432                          | W/ster 4323 Modular Digital WM Cntr Unit  | 7747310525 |
| 107439                          | W/ster BFU Room Tstat & Room Htg Circuit  | 30002243   |

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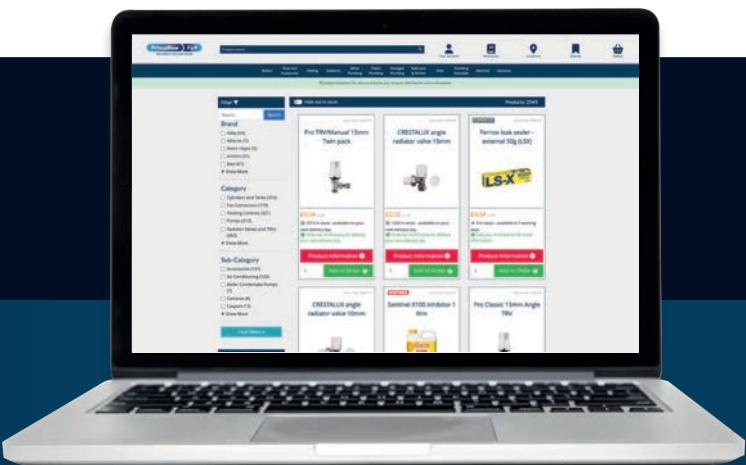
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## HEAT PUMPS



| <b>AIR SOURCE</b> |  |            |
|-------------------|--|------------|
| <b>Monobloc</b>   |  |            |
| 10824801          | Worcester Compress 3000 16kw Air To Water Heat Pump                    | 8738213956 |
| 10825601          | Worcester Compress 3000 16kW Air To Water Heat Pump With Pump          | 8738213966 |
| 10826401          | Worcester Compress 3000 16kW Air To Water Heat Pump With Pump & Vessel | 8738213976 |
| 10824901          | Worcester Compress 3000 19kw Air To Water Heat Pump                    | 8738213957 |
| 10825701          | Worcester Compress 3000 19kW Air To Water Heat Pump With Pump          | 8738213967 |
| 10826501          | Worcester Compress 3000 19kW Air To Water Heat Pump With Pump & Vessel | 8738213977 |
| 10825001          | Worcester Compress 3000 24kW Air To Water Heat Pump                    | 8738213958 |
| 10825801          | Worcester Compress 3000 24kW Air To Water Heat Pump With Pump          | 8738213968 |

| <b>AIR SOURCE</b> |   |            |
|-------------------|---|------------|
| <b>Monobloc</b>   |   |            |
| 10825101          | Worcester Compress 3000 31kW Air To Water Heat Pump           | 8738213959 |
| 10825901          | Worcester Compress 3000 31kW Air To Water Heat Pump With Pump | 8738213969 |
| 10825201          | Worcester Compress 3000 36kW Air To Water Heat Pump           | 8738213960 |
| 10826001          | Worcester Compress 3000 36kW Air To Water Heat Pump With Pump | 8738213970 |
| 10825301          | Worcester Compress 3000 41kW Air To Water Heat Pump           | 8738213961 |
| 10826101          | Worcester Compress 3000 41kW Air To Water Heat Pump With Pump | 8738213971 |
| 10826201          | Worcester Compress 3000 53kW Air To Water Heat Pump           | 8738213972 |
| 10826301          | Worcester Compress 3000 53kW Air To Water Heat Pump With Pump | 8738213973 |
| 10825401          | Worcester Compress 53kW Air To Water Heat Pump                | 8738213962 |
| 10825501          | Worcester Compress 59kW Air To Water Heat Pump                | 8738213963 |

| <b>SPARES AND ACCESSORIES</b>   |   |            |
|---------------------------------|---|------------|
| <b>Feet and Supports</b>        |   |            |
| 10787201                        | Bosch covers for floor stand small chassis                    | 8738214742 |
| 10787101                        | Floor stand small chassis (4kW - 7kW)                         | 8738214741 |
| <b>Hose</b>                     |   |            |
| 10787001                        | INPA hose long (500mm - 1000mm)                               | 8738214740 |
| 10786901                        | INPA hose short (200mm - 400mm)                               | 8738214739 |
| 10789201                        | Hose kit 1" (4-6kW)   | 7738602359 |
| 10789301                        | Hose kit 1 1/4" (8-30kW)                                      | 7738602360 |
| <b>Installation Accessories</b> |   |            |
| 10787401                        | Condensate pipe heating cable 2.5m                            | 8738214748 |
| 10787501                        | Condensate pipe heating cable 3.5m                            | 8738214749 |
| 10787601                        | Condensate pipe heating cable 5.5m                            | 8738214750 |
| 10787301                        | Wall-mounting bracket for small chassis (4kW - 7kW)           | 8750743753 |
| 10790401                        | Floor antivibration kit (4-16kW)                              | 7738602372 |
| 10790501                        | Floor antivibration kit (8-30kW)                              | 7738602377 |
| 10790601                        | Wall antivibration kit (4-16kW)                               | 7738602373 |
| 10790701                        | Wall antivibration kit (18-30kW)                              | 7738602378 |
| 10790801                        | Wall brackets   | 7738602374 |
| 10790901                        | 3-way valve (4-6kW)   | 7738602375 |
| 10791001                        | 3-way valve (8-16kW)  | 7738602524 |
| 10791101                        | 3-way valve (18-30kW)   | 7738602525 |
| 10789401                        | Kit for additional circuit direct + mixed (with mixing valve) | 7738602361 |
| 10789501                        | Kit for additional circuit direct + direct                    | 7738602362 |
| <b>Heating Controls</b>         |   |            |
| 10786701                        | Bosch RT800   | 7738112961 |
| 10786801                        | Bosch CR20RF  | 7738112943 |
| <b>Sensors</b>                  |   |            |
| 10789601                        | DHW temperature sensor 10m                                    | 7738602363 |
| 10789701                        | DHW temperature sensor 30m                                    | 7738602364 |
| <b>Freeze Protection</b>        |   |            |
| 10789801                        | System freeze protection kit (4-6kW)                          | 7738602366 |
| 10789901                        | System freeze protection kit (8-16kW)                         | 7738602367 |
| 10790001                        | System freeze protection kit (18-30kW)                        | 7738602368 |
| <b>Back-up Heaters</b>          |   |            |
| 10790101                        | Single phase electric back-up heater                          | 7738602369 |
| 10790201                        | Three phase electric back-up heater                           | 7738602370 |
| 10790301                        | Drain pan for condensates                                     | 7738602371 |

# WATER TREATMENT

Keep your heat pump system bacteria and fungi free whilst improving your heat transfer efficiency by using the right chemicals.

**Biocides are specifically designed to neutralise bacteria and fungi that live and grow in low temperature heating systems. Heat Pumps and underfloor heating systems without biocides could suffer from degradation of thermal fluids, blockages, unpleasant smells and corrosion of system components if left untreated.**



Products formulated specifically for air and ground source heat pumps, often based on ethylene or propylene glycol, have been designed to extend the longevity of heat pump systems by protecting against corrosion and limescale. The solution will also protect against freezing at temperatures from -10°C to -33°C.

Chemicals need to be compatible with all metals and materials commonly found in heat pump systems. The products on the following pages have been designed to perfectly work with a wide range of Heat pumps.



Advice line: 01242 546 700  
www.adey.com

## WATER TREATMENT



| CODE                           | DESCRIPTION               | MPN          |
|--------------------------------|---------------------------|--------------|
| <b>FILTERS &amp; CHEMICALS</b> |                           |              |
| 18932501                       | Magnaclean HP Filter 28mm | FL1-03-06223 |
| 189306                         | Magnaclean Twintech 22mm  | MCTT001      |

| CODE                           | DESCRIPTION         | MPN             |
|--------------------------------|---------------------|-----------------|
| <b>FILTERS &amp; CHEMICALS</b> |                     |                 |
| 18941601                       | MC10+ Biocide 500ml | CH1-03-03268-WE |

| CODE                           | DESCRIPTION        | MPN          |
|--------------------------------|--------------------|--------------|
| <b>FILTERS &amp; CHEMICALS</b> |                    |              |
| 189359                         | Rapide MC10+ 300ml | CH1-03-02040 |

## WATER TREATMENT



| CODE                           | DESCRIPTION              | MPN   |
|--------------------------------|--------------------------|-------|
| <b>FILTERS &amp; CHEMICALS</b> |                          |       |
| 50010338                       | TF1 Sigma HP Filter 22mm | 62614 |



| CODE                           | DESCRIPTION              | MPN   |
|--------------------------------|--------------------------|-------|
| <b>FILTERS &amp; CHEMICALS</b> |                          |       |
| 50010339                       | TF1 Sigma HP Filter 28mm | 62615 |



| CODE                           | DESCRIPTION                        | MPN   |
|--------------------------------|------------------------------------|-------|
| <b>FILTERS &amp; CHEMICALS</b> |                                    |       |
| 50010340                       | Heat Transfer Fluid HP-EG 20 Litre | 62595 |



Advice line: 01928 704 330  
[www.sentinelprotects.com](http://www.sentinelprotects.com)

## WATER TREATMENT



| CODE                           | DESCRIPTION                      | MPN            |
|--------------------------------|----------------------------------|----------------|
| <b>FILTERS &amp; CHEMICALS</b> |                                  |                |
| 189213                         | X700 Sanitiser & Biocide 1 litre | X700L-12X1L-GB |
| 189182                         | R700 SANITISER AND BIOCIDE       | R700L-12X1L-GB |

## HEAT PUMP CONTROLS

A thermostat or control for a heat pump is different from a traditional boiler in a few key ways.

**When considering installing a heat pump, it is important to choose a thermostat that is compatible with your heat pump. You should also consider whether you want a programmable thermostat, which can help you save energy.**



**Modulation:** Traditional thermostats work by turning the boiler on when the temperature reaches a pre-set minimum temperature, and turns off when that temperature is reached. Heat pumps are most efficient when they maintain a steady temperature, so the thermostat modulates the output to keep a constant temperature.

**Operating range:** A heat pump can operate over a wider range of temperatures than a traditional boiler. This is because a heat pump can both heat and cool, while a traditional boiler can only heat.

**Programmable:** Heat pump thermostats are often programmable, which allows you to set different temperatures for different times of day. This can help you save energy by only heating or cooling your home when you need to.

## HEAT PUMP CONTROLS



| CODE                    | DESCRIPTION                    | MPN          |
|-------------------------|--------------------------------|--------------|
| <b>HEATING CONTROLS</b> |                                |              |
| 123056                  | Drayton Wiser Multi-Zone Kit 2 | WV724R9K0902 |
| 123055                  | Drayton Wiser Multi-Zone Kit 1 | WV714R9K0902 |

| CODE                    | DESCRIPTION                    | MPN          |
|-------------------------|--------------------------------|--------------|
| <b>HEATING CONTROLS</b> |                                |              |
| 123052                  | Drayton Wiser Thermostat Kit   | WT714R9K0902 |
| 120066                  | Drayton Wiser Thermostat Kit 3 | WT734R9K0902 |
| 120064                  | Drayton Wiser Thermostat Kit 2 | WT724R9K0902 |

| CODE                    | DESCRIPTION                   | MPN          |
|-------------------------|-------------------------------|--------------|
| <b>HEATING CONTROLS</b> |                               |              |
| 120061                  | Drayton Wiser Room Thermostat | WN704ROS0902 |



[support.google.com/store/gethelp](http://support.google.com/store/gethelp)

## HEAT PUMP CONTROLS



| CODE                    | DESCRIPTION                                 | MPN         |
|-------------------------|---|-------------|
| <b>HEATING CONTROLS</b> |   |             |
| 12238501                | Google Nest Learning Thermostat Steel - Pro | HF001631-GB |



Advice line: 01380 736 920  
[www.grantuk.com](http://www.grantuk.com)

## HEAT PUMP CONTROLS



| CODE                    | DESCRIPTION                         | MPN     |
|-------------------------|-------------------------------------|---------|
| <b>HEATING CONTROLS</b> |                                     |         |
| 10663306                | Grant Domestic hot water programmer | HPIDTM4 |

Bangor **02891 274 883** Bedford **01234 845 600** Chorley **01257 238 100**  
 Poole **01202 733 510** Wakefield **01924 288 700**



Tel: 0333 202 9614

## HEAT PUMP CONTROLS



| CODE                    | DESCRIPTION  | MPN    |
|-------------------------|--|--------|
| <b>HEATING CONTROLS</b> |  |        |
| 12228401                | Hive Thermostat For Heating Control (Combi Boilers) With Hive Hub      | 851814 |
| 12228501                | Hive Thermostat For Heating & HW Control (Htg Only Blrs) With Hive Hub | 851816 |

| CODE                    | DESCRIPTION  | MPN    |
|-------------------------|--|--------|
| <b>HEATING CONTROLS</b> |  |        |
| 12238601                | Hive Thermostat Mini Heating (Self Install)        | 852031 |
| 12238701                | Hive Thermostat Mini Heating H & HW (Self Install) | 852033 |

| CODE                    | DESCRIPTION                                   | MPN    |
|-------------------------|---|--------|
| <b>HEATING CONTROLS</b> |   |        |
| 12238801                | Hive Thermostat Mini Heating (Hubless)        | 852032 |
| 12238901                | Hive Thermostat Mini Heating H & HW (Hubless) | 852034 |

**Honeywell Home**  
from **resideo**

Advice Line: 0300 130 1299  
technical.support@honeywellhome.com  
www.heatingcontrols.honeywellhome.com

## HEAT PUMP CONTROLS



| CODE                    | DESCRIPTION                                | MPN          |
|-------------------------|--|--------------|
| <b>HEATING CONTROLS</b> |  |              |
| 11712301                | DT4R Room Thermostat Wireless On/Off White | YT42WRFT20   |
| 11712201                | DT4 Room Thermostat Wired On/Off White     | DT40WT20     |
| 117076                  | T6R-HW Wireless Smart Hot Water Control    | Y6H920RW4026 |
| 11706701                | T6R Smart Thermostat - Wall Mount          | Y6H920RW5031 |



## HEAT PUMP CONTROLS



| CODE                    | DESCRIPTION           | MPN    |
|-------------------------|-----------------------|--------|
| <b>HEATING CONTROLS</b> |                       |        |
| 10285188                | Halo Air RF 1-Zone    | 234819 |
| 10285189                | Halo Air RF 2-Zone    | 234791 |
| 10285190                | Halo Air Wi-Fi 1-Zone | 234790 |
| 10285191                | Halo Air Wi-Fi 2-Zone | 234792 |


 Advice line: 0345 6022 9229  
[www.vaillant.co.uk](http://www.vaillant.co.uk)

## HEAT PUMP CONTROLS



| CODE                    | DESCRIPTION           | MPN        |
|-------------------------|-----------------------|------------|
| <b>HEATING CONTROLS</b> |                       |            |
| 10546801                | sensoCOMFORT VRC 720f | 0010036820 |
| 10546101                | sensoCOMFORT VRC 720  | 0010036819 |
| 10546201                | VR92 BE               | 0020260925 |
| 10546901                | VR92f BE              | 0020260940 |


**BOSCH**

 Sales: 0330 123 9669  
[www.worcester-bosch.co.uk](http://www.worcester-bosch.co.uk)

## HEAT PUMP CONTROLS



| CODE                    | DESCRIPTION                              | MPN        |
|-------------------------|--|------------|
| <b>HEATING CONTROLS</b> |  |            |
| 107431                  | W/ster 4122 Modular Digital WM Cntr Unit | 30008934   |
| 107430                  | W/ster 4122 Modular Digital WM Cntr Unit | 30009078   |
| 107432                  | W/ster 4323 Modular Digital WM Cntr Unit | 7747310525 |
| 107439                  | W/ster BFU Room Tstat & Room Htg Circuit | 30002243   |

| CODE                    | DESCRIPTION | MPN        |
|-------------------------|-------------|------------|
| <b>HEATING CONTROLS</b> |             |            |
| 10786701                | RT800       | 7738112961 |
| 10786801                | CR20RF      | 7738112943 |

| CODE                    | DESCRIPTION                              | MPN        |
|-------------------------|--|------------|
| <b>HEATING CONTROLS</b> |  |            |
| 10763201                | Worcester Infrared Room Controller (ARC) | 7733700120 |
| 10763301                | Worcester Infrared Room Controller (ARC) | 7739832509 |
| 10763401                | Worcester Infrared Room Controller (ARC) | 7739832706 |

| CODE                    | DESCRIPTION                               | MPN        |
|-------------------------|---|------------|
| <b>HEATING CONTROLS</b> |   |            |
| 10759701                | Worcester Wired Room Controller           | 7739835666 |
| 10763501                | Worcester Wired Room Controller (ARC R-1) | 7739838309 |
| 10822701                | Worcester Wired Room Controller (CRC R-1) | 7733701903 |

# ELECTRIC

Electric boilers are designed to work in a similar heating system to a natural gas boiler. Heating hot water for general use and supplying radiators for heating. Electric boilers can be controlled by traditional system controls, and are a strong option for situations where gas supplies might be difficult.

**They typically are a similar size to gas boilers so potentially offer a practical replacement option.**



Just like gas boilers come as combi, conventional and system varieties, there are different types of electric boilers, too, including direct and storage. One advantage of Electric boilers is that they have no moving parts and thus do not require annual safety certification and need minimal servicing. Another is the relatively small footprint they demand.

Electric boilers are one potential solution for apartments or limited space homes where an ASHP would not be an option. They are also particularly beneficial for homes that don't have a nearby gas supply, of which there are around four million in the UK.

Electric boilers are a modern, convenient, safe and eco-friendly heat source when used in conjunction with energy generated from renewable sources.

## HEATRAE SADIA

SMARTER | CLEANER | WARMER

Specification Advice: 01603 420 220  
www.heatraesadia.com

### ELECTRIC



| CODE                  | DESCRIPTION | MPN      |
|-----------------------|-------------|----------|
| <b>AMPTEC</b>         |             |          |
| 2 year parts & labour |             |          |
| 124870                | C400 4kW    | 95022001 |
| 124871                | C600 6kW    | 95022002 |
| 124872                | C900 9kW    | 95022003 |
| 124873                | C1100 11kW  | 95022004 |
| 124874                | C1200 12kW  | 95022005 |

| CODE                      | DESCRIPTION    | MPN      |
|---------------------------|----------------|----------|
| <b>AMPTEC UNDERFLOOR</b>  |                |          |
| 2 year parts & labour     |                |          |
| 124341                    | U401 U/F 4kW   | 95022101 |
| 124342                    | U601 U/F 6kW   | 95022102 |
| 124343                    | U901 U/F 9kW   | 95022103 |
| 124344                    | U1101 U/F 11kW | 95022104 |
| 124345                    | U1201 U/F 12kW | 95022105 |
| <b>AMPTEC ACCESSORIES</b> |                |          |
| 124346                    | RL1 Relay      | 95970134 |
| 124347                    | RL2 Relay      | 95970135 |
| 124348                    | RL3 Relay      | 95970136 |

| CODE   | DESCRIPTION    | MPN      |
|--|----------------|----------|
| <b>ELECTROMAX</b>                                |                |          |
| Electromax (c/w domestic hot water store)        |                |          |
| 2 year parts & labour                            |                |          |
| 124875   | 180 litres 9kW | 95022236 |
| 124867   | 180 litres 6kW | 95022234 |
| <b>Electromax (c/w domestic hot water store)</b> |                |          |
| 2 year parts & labour                            |                |          |
| 124876   | 180 litres 9kW | 95022226 |

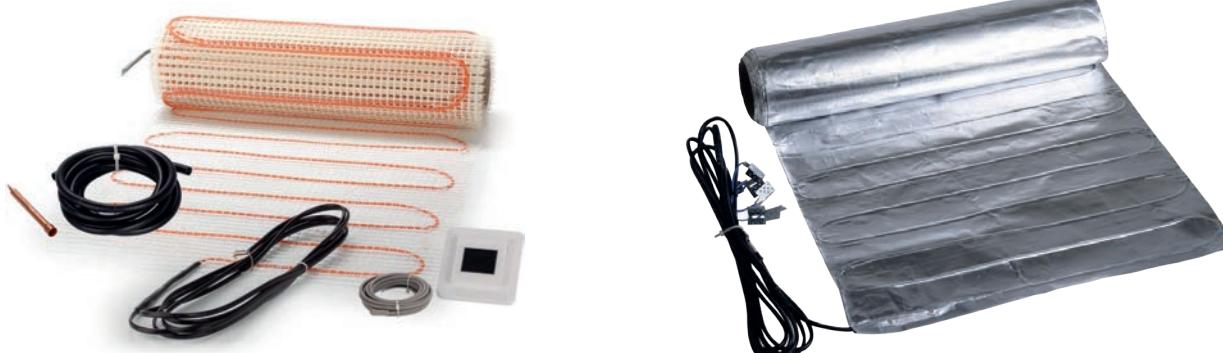
\*10 year on-site parts and labour on the cylinders, 2 year on the boiler and other controls

## ELECTRIC



| CODE                    | DESCRIPTION                             | MPN     |
|-------------------------|---|---------|
| <b>ELECTRIC BOILERS</b> |   |         |
| 11275100                | Vitotron 100 Electric boiler 3-8 kW WC  | Z020839 |
| 11275101                | Vitotron 100 Electric boiler 3-24 kW WC | Z020840 |
| 11275102                | Vitotron 100 Electric boiler 3-8 kW CT  | Z020841 |
| 11275103                | Vitotron 100 Electric boiler 3-24 kW CT | Z020842 |

## ELECTRIC UNDERFLOOR HEATING



| CODE                               | DESCRIPTION   | MPN     |
|------------------------------------|---|---------|
| <b>ELECTRIC UNDERFLOOR HEATING</b> |   |         |
| 11275400                           | Viessmann Vitoplanar EF2 150w Underfloor Heating Mat (Ceramic)  | 7946631 |
| 11275401                           | Viessmann Vitoplanar EF2 300w Underfloor Heating Mat (Ceramic)  | 7946632 |
| 11275402                           | Viessmann Vitoplanar EF2 450w Underfloor Heating Mat (Ceramic)  | 7946633 |
| 11275403                           | Viessmann Vitoplanar EF2 600w Underfloor Heating Mat (Ceramic)  | 7946634 |
| 11275404                           | Viessmann Vitoplanar EF2 860w Underfloor Heating Mat (Ceramic)  | 7946635 |
| 11275405                           | Viessmann Vitoplanar EF2 1000w Underfloor Heating Mat (Ceramic) | 7946636 |
| 11275406                           | Viessmann Vitoplanar EF2 1270w Underfloor Heating Mat (Ceramic) | 7946637 |

| CODE                               | DESCRIPTION   | MPN     |
|------------------------------------|---|---------|
| <b>ELECTRIC UNDERFLOOR HEATING</b> |   |         |
| 11275407                           | Viessmann Vitoplanar EF2 150w U/floor Heating Mat (Ceramic) SET     | 7946638 |
| 11275408                           | Viessmann Vitoplanar EF2 300w Underfloor Heating Mat (Ceramic) SET  | 7946639 |
| 11275409                           | Viessmann Vitoplanar EF2 450w Underfloor Heating Mat (Ceramic) SET  | 7946640 |
| 11275410                           | Viessmann Vitoplanar EF2 600w Underfloor Heating Mat (Ceramic) SET  | 7946641 |
| 11275411                           | Viessmann Vitoplanar EF2 860w Underfloor Heating Mat (Ceramic) SET  | 7946642 |
| 11275412                           | Viessmann Vitoplanar EF2 1000w Underfloor Heating Mat (Ceramic) SET | 7946643 |
| 11275413                           | Viessmann Vitoplanar EF2 1270w Underfloor Heating Mat (Ceramic) SET | 7946644 |

| CODE                               | DESCRIPTION                                   | MPN     |
|------------------------------------|---|---------|
| <b>ELECTRIC UNDERFLOOR HEATING</b> |   |         |
| 11275414                           | Viessmann Vitoplanar Cable Connection Set 5m  | Z019254 |
| 11275415                           | Viessmann Vitoplanar Cable Connection Set 10m | Z019253 |

# SOLAR

Solar power harnesses the power of the sun, and turns free / natural energy into usable heat or electricity.

**Transferring this energy into a cylinder to store hot water to be used in the central heating system, or electricity to power electric radiators, underfloor heating or point of use water heaters.**



Solar panels can be used for hot water heating which allows the consumer to take advantage of renewable and sustainable energy. Solar panels harness the power in both direct and diffused sunlight and convert the energy to heat for the production of hot water for the home.

The majority of solar panels have been designed as a complement to existing heating systems which use a store of hot water in a cylinder. The existing cylinder is exchanged for a cylinder with two heat exchanger coils; one from the boiler in the property and a second from the solar panels.

Solar panels can be used in conjunction with modern efficient condensing regular and system boilers which already require a separate cylinder for the storage of hot water. When used together, a high efficiency boiler and solar system provide a highly efficient system to give heating and hot water comfort.

A typical well sized solar system should provide around 50-70% of the domestic hot water requirements of a home, representing a worthwhile saving on hot water heating costs. The remaining hot water requirement would need to be provided by another medium such as an electric water heater.

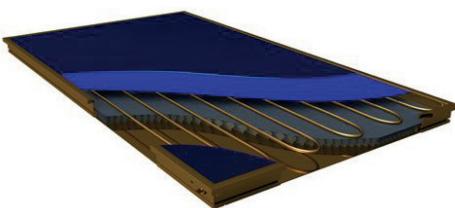


## HEAT PUMP CYLINDERS



| CODE         | DESCRIPTION                | MPN       |
|--------------|----------------------------|-----------|
| <b>SOLAR</b> |                            |           |
| 25838512     | SL Plus HP 180 Solar EE UV | PLUHP180S |
| 25838515     | SL Plus HP 210 Solar EE UV | PLUHP210S |
| 25838518     | SL Plus HP 250 Solar EE UV | PLUHP250S |
| 25838520     | SL Plus HP 300 Solar EE UV | PLUHP300S |
| 25838522     | SL Plus HP 400 Solar EE UV | PLUHP400S |

## SOLAR PRODUCT RANGE



| CODE               | DESCRIPTION  | MPN          |
|--------------------|--|--------------|
| <b>SOLAR PANEL</b> |  |              |
| <b>Landscape</b>   |  |              |
| 10663364           | Grant Grant Solar Thermal 1 collector bronze in-roof (tile) landscape kit  | GSSKIT15LAND |
| 10663367           | Grant Grant Solar Thermal 2 collector bronze in-roof (slate) landscape kit | GSSKIT17LAND |
| 10663370           | Grant Grant Solar Thermal 2 collector bronze in-roof (tile) landscape kit  | GSSKIT3LAND  |
| 10663369           | Grant Grant Solar Thermal 2 collector bronze on-roof Landscape kit         | GSSKIT1LAND  |
| 10663362           | Grant Grant Solar Thermal 3 collector bronze in-roof (tile) landscape kit  | GSS3ILT1     |
| <b>Portrait</b>    |  |              |
| 10663365           | Grant Grant Solar Thermal 1 collector bronze in-roof (slate) Portrait kit  | GSSKIT16     |
| 107077             | Grant Grant Solar Thermal 1 collector bronze in-roof (tile) Portrait kit   | GSSKIT15     |
| 10663363           | Grant Grant Solar Thermal 1 collector bronze on-roof Portrait kit          | GSSKIT0      |
| 106809             | Grant Grant Solar Thermal 2 collector bronze flat-roof Portrait kit        | GSSKITS5     |
| 10663366           | Grant Grant Solar Thermal 2 collector bronze in-roof (slate) Portrait kit  | GSSKIT17     |
| 106807             | Grant Grant Solar Thermal 2 collector bronze in-roof (tile) Portrait kit   | GSSKIT3      |
| 106805             | Grant Grant Solar Thermal 2 collector bronze on-roof Portrait kit          | GSSKIT1      |
| 10663368           | Grant Grant Solar Thermal 3 collector bronze in-roof (slate) Portrait kit  | GSSKIT18     |
| 106808             | Grant Grant Solar Thermal 3 collector bronze in-roof (tile) Portrait kit   | GSSKIT4      |
| 106806             | Grant Grant Solar Thermal 3 collector bronze on-roof Portrait kit          | GSSKIT2      |

| CODE                   | DESCRIPTION                                       | MPN           |
|------------------------|---|---------------|
| <b>SOLAR CYLINDERS</b> |   |               |
| 10663332               | 30 Litre external volumiser c/w 3kW backup heater | HPIDVOL30EXT  |
| 106644                 | Grant Duowave Vented Indirect Cylinder 300 Litre  | GDUO/PLUS300  |
| 10662501               | Grant Monowave Pre-Plumbed Single Coil 2 BS       | HPFR200PPC/   |
| 106982                 | Grant Monowave Single Coil 150 Litre Cylinder     | HPMONO/IND150 |
| 106987                 | Grant Monowave Single Coil 170 Litre Cylinder     | HPMONO/IND170 |
| 106993                 | Grant Monowave Single Coil 400 Litre Cylinder     | HPMONO/IND400 |

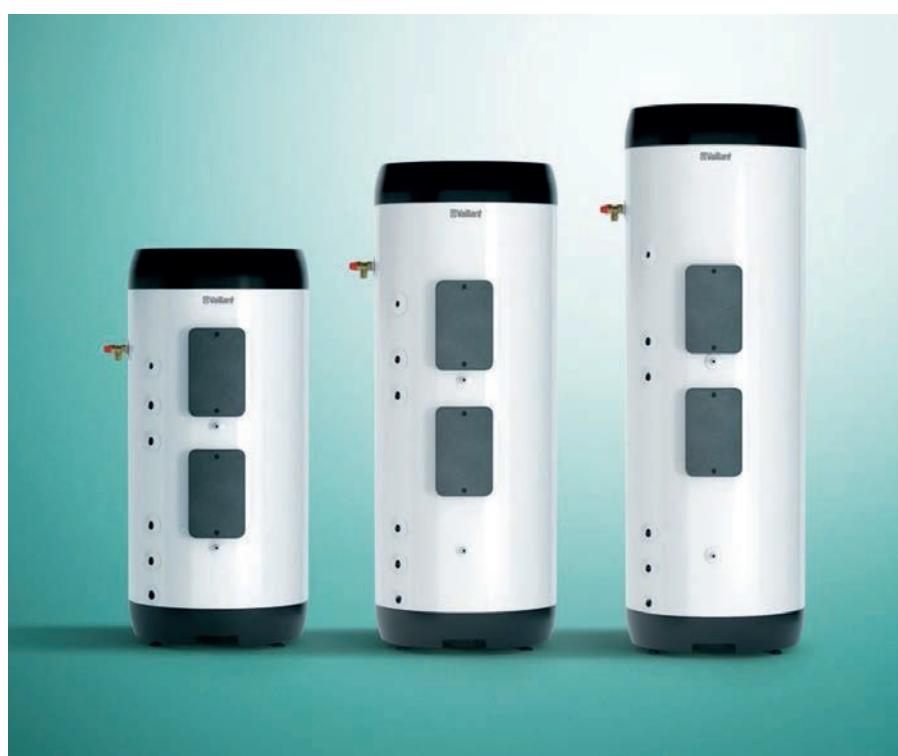
| CODE                          | DESCRIPTION   | MPN        |
|-------------------------------|---|------------|
| <b>SPARES AND ACCESSORIES</b> |   |            |
| Connector                     |   |            |
| 10663357                      | Grant 15mm Connector flex pipe compression fitting (DN16) (2pc)   | GS600069   |
| 10663359                      | Grant 3/4 Female connector (DN16) (2pc)                           | GS600099   |
| 10663340                      | Grant connection kit - lead flashing (pack of two)                | GS222003   |
| 10663344                      | Grant Connection Kit Collector to Collector                       | GS222068   |
| 10663358                      | Grant Connector (between two pipes) (DN16) (2pc)                  | GS600071   |
| Installation                  |   |            |
| 10663350                      | Grant Insulated pipe clips (pack of four)                         | GS222080   |
| 10663341                      | Grant 2x 15mm -12mm Landscape reducing elbows                     | GS222006   |
| 10663352                      | Grant Anchors for flat tile (pack of 2)                           | GS222091   |
| 10663355                      | Grant Anchors for profile tile (pack of 2)                        | GS222148   |
| 10663351                      | Grant Anchors for slate tile (pack of 2)                          | GS222090   |
| 106830                        | Grant CombiSOL kit  | COMSOL3    |
| 106828                        | Grant connection kit - acrylic coated lead flashing (pack of two) | GS222008   |
| 10663354                      | Grant Connection Kit Flow & Return                                | GS222146   |
| 106994                        | Grant WinterSOL kit   | WINTERSOL1 |
| Insulation                    |   |            |
| 10663336                      | Grant 1.2 METRE 15mm foil-faced insulation                        | GS121530   |
| 10663337                      | Grant 1.2 METRE 22mm foil-faced insulation                        | GS122230   |
| 10663338                      | Grant 2 METRE 15mm Armaflex insulation                            | GS122231   |
| 10663339                      | Grant 2 METRE 22mm Armaflex insulation                            | GS122232   |
| Other                         |   |            |
| 10663353                      | Grant Filling station   | GS222139   |
| 107075                        | Grant Solar fluid recovery container (including safety valve)     | GS550001   |
| Pipe                          |   |            |
| 10663360                      | Grant 10 METRE insulated flex solar pipe (DN16)                   | GS600194   |
| 107078                        | Grant 15 METRE insulated flex solar pipe (DN16)                   | GS600195   |
| 10663361                      | Grant 25 METRE insulated flex solar pipe (DN16)                   | GS600196   |
| Valve                         |   |            |
| 107076                        | Grant 2-port high temperature valve 22mm                          | GS222014A  |
| 10663342                      | Grant 3-port high temperature valve 22mm                          | GS222015A  |
| Vessels                       |   |            |
| 10663345                      | Grant Expansion Vessel 18 litre                                   | GS222071   |
| 10663346                      | Grant Expansion Vessel 25 litre                                   | GS222072   |
| 10663347                      | Grant Expansion Vessel Bracket & Valve                            | GS222073   |
| 10663348                      | Grant Expansion Vessel Pipe Connection                            | GS222074   |

**SOLAR PRODUCT RANGE**


| CODE                          | DESCRIPTION                       | MPN      |
|-------------------------------|-----------------------------------|----------|
| <b>SOLAR CYLINDERS</b>        |                                   |          |
| 12440401                      | Flexistor 500 10 Bar Cylinder     | 7038514  |
| 124511                        | Megaflow Eco Solar PV Ready 250DD | 95050355 |
| 124270                        | Megaflow Solar Eco 170SDD         | 95050527 |
| 124250                        | Megaflow Solar Eco 190Si          | 95050511 |
| 124271                        | Megaflow Solar Eco 210SDD         | 95050512 |
| 124251                        | Megaflow Solar Eco 210Si          | 95050513 |
| 124252                        | Megaflow Solar Eco 250Si          | 95050515 |
| 124272                        | Megaflow Solar Eco 260SDD         | 95050528 |
| 124253                        | Megaflow Solar Eco 300 Si         | 95050517 |
| 124273                        | Megaflow Solar Eco 300SDD         | 95050516 |
| <b>SPARES AND ACCESSORIES</b> |                                   |          |
| 124989                        | Heatrae Sadia CVE ECO2 Fan        | 95060004 |
| 124987                        | Heatrae Sadia Duct Connection     | 95970001 |


 Advice line: 0345 6022 9229  
[www.vaillant.co.uk](http://www.vaillant.co.uk)
**SOLAR PRODUCT RANGE**

| CODE                          | DESCRIPTION                                     | MPN      |
|-------------------------------|---|----------|
| <b>SOLAR CYLINDER</b>         |   |          |
| 105215                        | Vaillant 550 Litre Open Vent Cylinder Twin Coil | 10019234 |
| <b>SPARES AND ACCESSORIES</b> |   |          |
| Installation Accessories      |   |          |
| 105126                        | Vaillnt Exp Ves Bracket                         | 20173592 |
| 105862                        | Vaillnt Solar Loading Plate                     | 20137768 |
| 105116                        | Vaillnt Solar Roof Bracket t Type P             | 20067273 |
| 105750                        | Vaillnt Solar Filling Pump                      | 20166591 |
| Sensors                       |   |          |
| 105849                        | Vaillnt Solar NTC Coll Sensor VR11              | 306788   |
| 105850                        | Vaillnt Solar NTC Sensor VR10                   | 306787   |
| <b>VESSELS</b>                |   |          |
| 105819                        | Vailnt 18 Ltr Exp Ves                           | 302097   |
| 105663                        | Vailnt Solar 18 Ltr Protection Vesl             | 20048753 |
| 105839                        | Vailnt Solar Exp Ves 25Ltr (1-3 VTK 550)        | 302098   |
| 105840                        | Vailnt Solar Exp Ves 35Ltr (4-5 VTK 550)        | 302428   |
| 105841                        | Vailnt Solar Exp Ves 50 Ltr For F/S             | 302496   |
| 105842                        | Vailnt Solar Exp Ves 80 Ltr For F/S             | 302497   |
| 105816                        | Vailnt Solar Exp Ves Conn t                     | 20077250 |



## SOLAR PRODUCT RANGE



| CODE                     | DESCRIPTION                       | MPN        | CODE   | DESCRIPTION                        | MPN        |
|--------------------------|-----------------------------------|------------|--------|------------------------------------|------------|
| <b>SOLAR PANELS</b>      |                                   |            |        |                                    |            |
| 107364                   | Solar Lito Coll                   | 8718532279 | 107483 | Solar Lito Additional Pnl          | 7709600088 |
| 107485                   | Solar Lifestyle Pnl Portrait      | 8718530950 | 108000 | Solar Fluid 20 Ltr                 | 8718660881 |
| 107470                   | Solar Lifestyle On Roof Portrait  | 7716150164 | 108454 | Solar Exp Ves Conn AAS1            | 7739300331 |
| 107471                   | Solar Lifestyle In Roof Portrait  | 7716150165 | 107990 | Solar Lifestyle In Roof Conn Set   | 8718531446 |
| 107474                   | Solar Lito 1 Pnl Roof Kit         | 7716150168 | 107983 | Flat Portrait Sprrt Additional Pnl | 8718531032 |
| 107472                   | Solar Lifestyle On Roof Landscape | 7716150166 | 107991 | Solar Lifestyle t Flat Roof        | 8718531447 |
| 107486                   | Solar Lifestyle Pnl Landscape     | 8718530951 | 107802 | In Roof Slate Exten V Sky-C/T      | 8718532914 |
| <b>SOLAR CONTROL</b>     |                                   |            |        |                                    |            |
| 108458                   | Worcester Solar Control TDS100-2  | 7735600075 | 107801 | In Roof Slate Basis V Sky-C/T      | 8718532913 |
| <b>SOLAR ACCESSORIES</b> |                                   |            |        |                                    |            |
| 107480                   | Solar Flat Plate Plumb Kit Sng    | 7716150174 | 108748 | Solar Station AGS10-2              | 7735600065 |
| 108457                   | Solar Safety Relief Dschrg Bottle | 7716192348 | 107995 | Solar Lito Flat Roof Basic         | 8718531943 |
| 107993                   | Solar Lito On Roof Conn Set       | 8718531941 | 108510 | Solar Lux Pre-Cooling Vesl         | 7747010473 |
| 108432                   | Solar Special Roof Hook Kit       | 7739300281 | 107490 | Landscape 1 Pnl In Roof Flashing   | 8718530986 |
| 108794                   | TF2 Temperature Sensor NTC 20K    | 7747009880 | 107989 | Solar Lifestyle On Roof Conn Set   | 8718531445 |
| 107482                   | Solar Lito Rail 1st Pnl           | 7709600087 | 107982 | Flat Roof Portrait Sprrt 1st Pnl   | 8718531031 |
| 107475                   | Solar Lito 2 Pnl Roof Kit         | 7716150169 | 108916 | ELT5 Air Vent Set                  | 7739300432 |
| 108922                   | Solar Plain Tile/ Adj Roof        | 7739300436 | 107479 | Solar Flat Plate Plumb Kit         | 7716150173 |
| 107481                   | Solar Flat Plate Plumb Std Twin   | 7716150175 | 107992 | Solar Lito ries Conn               | 8718531940 |
|                          |                                   |            | 107497 | Plain Tile Roof Hook t             | 8718531023 |
|                          |                                   |            | 107493 | On Roof Portrait Rail 1st Pnl      | 8718531017 |
|                          |                                   |            | 108447 | Solar Expansion Vessel SAG 25      | 7738325440 |
|                          |                                   |            | 108749 | Solar Station AGS10E-2             | 7735600066 |
|                          |                                   |            | 107809 | Landscape 1 Pnl In Roof Flsh Tile  | 8718531010 |

| CODE                   | DESCRIPTION   | MPN        |
|------------------------|---|------------|
| <b>SOLAR CYLINDERS</b> |   |            |
| 10765101               | Green Storage WB Range<br>Unvented Solar 180 Cylinder | 7733601306 |
| 10765201               | Green Storage WB Range<br>Unvented Solar 210 Cylinder | 7733601307 |
| 10765301               | Green Storage WB Range<br>Unvented Solar 250 Cylinder | 7733601308 |
| 10765401               | Green Storage WB Range<br>Unvented Solar 300 Cylinder | 7733601309 |



**HEAT RECOVERY**

| CODE | DESCRIPTION | MPN |
|------|-------------|-----|
|------|-------------|-----|

**HEAT RECOVERY UNIT**

|          |                        |         |
|----------|------------------------|---------|
| 10358101 | Assure Vertical SHRU   | 7771332 |
| 10358201 | Assure Horizontal SHRU | 7773414 |

**HEAT RECOVERY**

| CODE | DESCRIPTION | MPN |
|------|-------------|-----|
|------|-------------|-----|

**CONTINUOUS EXTRACTION VENTILATION SYSTEMS**

|          |  |          |
|----------|--|----------|
| 12499601 | Heatrae CVE ECO2 Continuous Extraction U | 7030004  |
| 12499701 | Heatrae Sadia CVE ECO2 Wired Controller  | 95970002 |



| CODE | DESCRIPTION | MPN |
|------|-------------|-----|
|------|-------------|-----|

**HEAT RECOVERY UNITS**

|          |                              |          |
|----------|------------------------------|----------|
| 124992   | Sadia Advance G4             | 95970009 |
| 12439201 | Sadia Advance PLUS MVHR Unit | 7030002  |



BOSCH

# Climate 3000i

## Air conditioning split unit



Anti  
Corrosion



Low  
Ambient  
Cooling



Eco  
Mode



Wind  
Avoid  
Me



Gear  
Changer



WiFi



Follow Me  
Remote



I clean



### Climate control made easy

- Wide range of features to satisfy each individual need
- State of the art filter technology
- Easy to control with the Bosch HomeCom Easy app

## AIR CONDITIONING



| CODE                    | DESCRIPTION                         | MPN        |
|-------------------------|-------------------------------------|------------|
| <b>AIR CONDITIONING</b> |                                     |            |
| CL300i                  |                                     |            |
| 10766901                | CL3000i-Set 26 WE                   | 7733701735 |
| 10767101                | CL3000i 26 E Outdoor Unit           | 7733701565 |
| 10767001                | CL3000iU W 26 E Indoor Unit         | 7733701564 |
| 10767201                | CL3000i-Set 35 WE                   | 7733701736 |
| 10767401                | Worcester CL3000i 35 E Outdoor Unit | 7733701567 |
| 10767301                | CL3000iU W 35 E Indoor Unit         | 7733701566 |
| 10767501                | CL3000i-Set 53 WE                   | 7733701737 |
| 10767701                | CL3000i 53 E Outdoor Unit           | 7733701569 |
| 10767601                | CL3000iU W 35 E Indoor Unit         | 7733701568 |
| 10767801                | CL3000i-Set 70 WE                   | 7733701738 |
| 10768001                | CL3000i 70 E Outdoor Unit           | 7733701571 |
| 10767901                | CL3000iU W 70 E Indoor Unit         | 7733701570 |

| CODE                    | DESCRIPTION  | MPN        |
|-------------------------|--|------------|
| <b>AIR CONDITIONING</b> |  |            |
|                         | Climate 5000 L split 4-way cassette                        |            |
| 10816401                | Worcester CL5000iL Set 35 4CCE Large Split 4 Way           | 7733701908 |
| 10816601                | Worcester Climate 5000 Large Split 3.5kW Outdoor Unit      | 7733701869 |
| 10841401                | Compact Cassette Indoor Unit 3.5kW                         | 7733701878 |
| 10841701                | Worcester Climate 5000 Cassette Panel For 4CC Indoor Units | 7733701886 |
| 10816801                | Worcester CL5000iL Set 53 4CCE Large Split 4 Way           | 7733701909 |
| 10817001                | Worcester Climate 5000 Large Split 5.3kW Outdoor Unit      | 7733701870 |
| 10841501                | Compact Cassette Indoor Unit 5.3kW                         | 7733701879 |
| 10841701                | Worcester Climate 5000 Cassette Panel For 4CC Indoor Units | 7733701886 |
| 10817101                | Worcester CL5000iL Set 70 4CE Large Split 4 Way            | 7733701910 |
| 10817301                | Worcester Climate 5000 Large Split 7kW Outdoor Unit        | 7733701871 |
| 10841601                | Worcester Climate 5000 4Way Cassette Indoor Unit 7kW       | 7733701880 |
| 10841801                | Worcester Climate 5000 Cassette Panel For 4C Indoor Units  | 7733701887 |
| 10817501                | Worcester CL5000iL Set 88 4CE Large Split 4 Way            | 7733701911 |
| 10817701                | Worcester Climate 5000 Large Split 8.8kW Outdoor Unit      | 7733701872 |
| 10817601                | Worcester Climate 5000 Large Split 4 Way Indoor Unit       | 7733701881 |
| 10841801                | Worcester Climate 5000 Cassette Panel For 4C Indoor Units  | 7733701887 |
| 10817801                | Worcester CL5000iL Set 105 4CE Large Split 4 Way           | 7733701912 |
| 10818001                | Worcester Climate 5000 Large Split 10.5k Outdoor Unit      | 7733701873 |
| 10817901                | Worcester Climate 5000 Large Split 4 Way Indoor Unit       | 7733701882 |
| 10841801                | Worcester Climate 5000 Cassette Panel For 4C Indoor Units  | 7733701887 |
| 10818101                | Worcester CL5000iL Set 125 4CE Large Split 4 Way           | 7733701924 |
| 10818301                | Worcester Climate 5000 Large Split 12.5k Outdoor Unit      | 7733701875 |
| 10818201                | Worcester Climate 5000 Large Split 4 Way Indoor Unit       | 7733701883 |
| 10841801                | Worcester Climate 5000 Cassette Panel For 4C Indoor Units  | 7733701887 |
| 10818401                | Worcester CL5000iL Set 140 4CE-3 Large Split 4 Way         | 7733701925 |
| 10818601                | Worcester Climate 5000 Large Split 14kW Outdoor Unit       | 7733701876 |
| 10818501                | Worcester Climate 5000 Large Split 4 Way Indoor Unit       | 7733701884 |
| 10841801                | Worcester Climate 5000 Cassette Panel For 4C Indoor Units  | 7733701887 |
| 10818701                | Worcester CL5000iL Set 160 4CE-3 Large Split 4 Way         | 7733701926 |
| 10818901                | Worcester Climate 5000 Large Split 16kW Outdoor Unit       | 7733701877 |
| 10818801                | Worcester Climate 5000 Large Split 4 Way Indoor Unit       | 7733701885 |
| 10841801                | Worcester Climate 5000 Cassette Panel For 4C Indoor Units  | 7733701887 |

| CODE                    | DESCRIPTION  | MPN        |
|-------------------------|--|------------|
| <b>AIR CONDITIONING</b> |  |            |
|                         | Climate 5000 L split ceiling/floor                         |            |
| 10820601                | Worcester CL5000iL-Set 53 CF Large Split Ceiling/ Floor    | 7733701920 |
| 10817001                | Worcester Climate 5000 Large Split 5.3kW Outdoor Unit      | 7733701870 |
| 10820701                | Worcester Climate 5000 Large Split Ceili Indoor Unit       | 7733701896 |
| 10820801                | Worcester CL5000iL-Set 70 CF Large Split Ceiling/Floor     | 7733701921 |
| 10817301                | Worcester Climate 5000 Large Split 7kW Outdoor Unit        | 7733701871 |
| 10820901                | Worcester Climate 5000 Large Split Ceiling Indoor Unit     | 7733701897 |
| 10821001                | Worcester CL5000iL-Set 105 CF Large Split Ceiling/ Floor   | 7733701922 |
| 10818001                | Worcester Climate 5000 Large Split 10.5k Outdoor Unit      | 7733701873 |
| 10821101                | Worcester Climate 5000 Large Split Ceiling Indoor Unit     | 7733701898 |
| 10821301                | Worcester CL5000iL-Set 140 CF-3 Large Split Ceiling/ Floor | 7733701930 |
| 10818601                | Worcester Climate 5000 Large Split 14kW Outdoor Unit       | 7733701876 |
| 10821401                | Worcester Climate 5000 Large Split Ceiling Indoor Unit     | 7733701899 |
| 10821501                | Worcester CL5000iL-Set 160 CF-3 Large Split Ceiling/ Floor | 7733701931 |
| 10818901                | Worcester Climate 5000 Large Split 16kW Outdoor Unit       | 7733701877 |
| 10821601                | Worcester Climate 5000 Large Split Ceiling Indoor Unit     | 7733701900 |

## AIR CONDITIONING



| CODE                                  | DESCRIPTION   | MPN        |
|---------------------------------------|---|------------|
| <b>AIR CONDITIONING</b>               |   |            |
| <b>Climate 5000 L split duct unit</b> |   |            |
| 10819001                              | Worcester CL5000iL Set 35 DE Large Split Duct         | 7733701914 |
| 10816601                              | Worcester Climate 5000 Large Split 3.5kW Outdoor Unit | 7733701869 |
| 10841901                              | Worcester Climate 5000 Ducted Indoor Unit 3.5kW       | 7733701888 |
| 10819201                              | Worcester CL5000iL Set 53 DE Large Split Duct         | 7733701915 |
| 10817001                              | Worcester Climate 5000 Large Split 5.3kW Outdoor Unit | 7733701870 |
| 10842001                              | Worcester Climate 5000 Ducted Indoor Unit 5.3kW       | 7733701889 |
| 10815801                              | Worcester CL5000iL Set 70 DE Large Split Duct         | 7733701916 |
| 10817301                              | Worcester Climate 5000 Large Split 7kW Outdoor Unit   | 7733701871 |
| 10842101                              | Worcester Climate 5000 Ducted Indoor Unit 7kW         | 7733701890 |
| 10819601                              | Worcester CL5000iL Set 88 DE Large Split Duct         | 7733701917 |
| 10817701                              | Worcester Climate 5000 Large Split 8.8kW Outdoor Unit | 7733701872 |
| 10819701                              | Worcester Climate 5000 Large Split Duct Indoor Unit   | 7733701891 |
| 10819801                              | Worcester CL5000iL Set 105 DE Large Split Duct        | 7733701918 |
| 10818001                              | Worcester Climate 5000 Large Split 10.5k Outdoor Unit | 7733701873 |
| 10819901                              | Worcester Climate 5000 Large Split Duct Indoor Unit   | 7733701892 |
| 10820001                              | Worcester CL5000iL Set 125 DE Large Split Duct        | 7733701927 |
| 10818301                              | Worcester Climate 5000 Large Split 12.5k Outdoor Unit | 7733701875 |
| 10820101                              | Worcester Climate 5000 Large Split Duct Indoor Unit   | 7733701893 |
| 10820201                              | Worcester CL5000iL Set 140 DE-3 Large Split Duct      | 7733701928 |
| 10818601                              | Worcester Climate 5000 Large Split 14kW Outdoor Unit  | 7733701876 |
| 10820301                              | Worcester Climate 5000 Large Split Duct Indoor Unit   | 7733701894 |
| 10820401                              | Worcester CL5000iL Set 160 DE-3 Large Split Duct      | 7733701929 |
| 10818901                              | Worcester Climate 5000 Large Split 16kW Outdoor Unit  | 7733701877 |
| 10820501                              | Worcester Climate 5000 Large Split Duct Indoor Unit   | 7733701895 |

| CODE   | DESCRIPTION  | MPN        |
|--|--|------------|
| <b>AIR CONDITIONING</b>                                    |  |            |
| <b>Climate 5000 L split twin system pack codes</b>         |  |            |
| 10821701   | Worcester CL5000iL-Set 2x70 4CE-3 Large Split 4 Way                    | 7733701968 |
| 10821801   | Worcester CL5000iL-Set 2x88 4CE-3 Large Split 4 Way                    | 7733701969 |
| 10821901   | Worcester CL5000iL-Set 2x35 DE Large Split Duct                        | 7733701970 |
| 10822001   | Worcester CL5000iL-Set 2x53 DE Large Split Duct                        | 7733701971 |
| 10822201   | Worcester CL5000iL-Set 2x70 DE-3 Large Split Duct                      | 7733701973 |
| 10822301   | Worcester CL5000iL-Set 2x88 DE-3 Large Split Duct                      | 7733701974 |
| 10822401   | Worcester CL5000iL-Set 2x53 CF Large Split Ceiling                     | 7733701975 |
| 10822601   | Worcester CL5000iL-Set 2x70 CF-3 Large Split Ceiling                   | 7733701980 |
| <b>Climate 5000 M multi-split</b>                          |  |            |
| 10840501   | Worcester Climate 5000 m Multi-Split Air To Air Heat Pump 4.1kW Outdr  | 7733701932 |
| 10840601   | Worcester Climate 5000 m Multi-Split Air To Air Heat Pump 5.3kW Outdr  | 7733701933 |
| 10840701   | Worcester Climate 5000 m Multi-Split Air To Air Heat Pump 6.2kW Outdr  | 7733701934 |
| 10840801   | Worcester Climate 5000 m Multi-Split Air To Air Heat Pump 7.9kW Outdr  | 7733701935 |
| 10840901   | Worcester Climate 5000 m Multi-Split Air To Air Heat Pump 8.2kW Outdr  | 7733701936 |
| 10841001   | Worcester Climate 5000 m Multi-Split Air To Air Heat Pump 10.5kW Outdr | 7733701937 |
| 10841101   | Worcester Climate 5000 m Multi-Split Air To Air Heat Pump 12.5kW Outdr | 7733701938 |
| <b>Indoor units for Climate 5000 M multi-split systems</b> |  |            |
| 10841201   | Worcester Climate 5000 4Way Compact Cassette Indoor Unit 2.1kW         | 7733701939 |
| 10841301   | Worcester Climate 5000 4Way Compact Cassette Indoor Unit 2.6kW         | 7733701940 |

| CODE                          | DESCRIPTION                               | MPN        |
|-------------------------------|---|------------|
| <b>AIR CONDITIONING</b>       |   |            |
| <b>Spares and Accessories</b> |   |            |
| 10760701                      | Worcester Climate 5000 MS 2-2 IBW         | 8733501984 |
| 10758901                      | Worcester SCAC Climate 5000 18 Cassette   | 7733600521 |
| 10759301                      | Worcester SCAC Climate 5000 18-2 Duct Kit | 7733600526 |
| 10759501                      | Worcester SCAC Climate 5000 36-2 1 Phase  | 7733600528 |
| 10759201                      | Worcester SCAC Climate 5000 48 Phase Ca   | 7733600525 |
| 10759601                      | Worcester SCAC Climate 5000 48-2 3 Phase  | 7733600530 |



# HEAT NETWORKS

Heat networks are usually centralised energy networks that are designed to feed a number of individual properties or commercial units from an individual plant room or a full scale dedicated plant.

**This communal energy source is linked to the community it feeds through a dedicated network which is metered to control the amount of heat & hot water each space uses at the point of use.**



In such heat networks, the heating and hot water are controlled via a heat interface unit (HIU) that operates as a classic heating system would. The energy used (typically steam) is metered and charged accordingly with the rates of energy consumption being calculated and charged by the heat generation network.

HIU's are a sustainable option for multi-occupancy buildings based on using renewable fuels as the original source of heat generation, e.g. ground source heat pumps or biomass boilers.

In Sheffield there is a heat network in operation from a waste processing facility, where steam is a by-product being reused for domestic and commercial heating in nearby buildings. The network heats more than 125 buildings from universities to hotels and residential housing. By recycling over 120,000 tonnes of black bin waste, the network is able to generate 100,000 megawatt hours of energy and is typically saving 13,000 tonnes of co<sup>2</sup> every year (the equivalent of removing 2,800 cars from UK roads).

## HIU - HEAT INTERFACE UNIT



| CODE                                  | DESCRIPTION                                     | MPN    |
|---------------------------------------|---|--------|
| <b>HIU - INDIRECT</b>                 |   |        |
| <b>INDIRECT - No Meter</b>            |   |        |
| 10285134                              | Ideal FIRST FIX KIT POD HIU INDIRECT            | 224651 |
| 10285135                              | Ideal POD HIU INDIRECT I305 NO METER            | 225238 |
| 10285136                              | Ideal POD HIU INDIRECT I405 NO METER            | 225239 |
| 10285137                              | Ideal POD HIU INDIRECT I505 NO METER            | 225240 |
| 10285138                              | Ideal POD HIU INDIRECT I605 NO METER            | 225241 |
| 10285139                              | Ideal POD HIU INDIRECT I705 NO METER            | 225242 |
| <b>INDIRECT - WIRED MBUS METER</b>    |   |        |
| 10285140                              | Ideal POD HIU INDIRECT I305 WIRED MBUS METER    | 225247 |
| 10285141                              | Ideal POD HIU INDIRECT I405 WIRED MBUS METER    | 225248 |
| 10285142                              | Ideal POD HIU INDIRECT I505 WIRED MBUS METER    | 225249 |
| 10285143                              | Ideal POD HIU INDIRECT I605 WIRED MBUS METER    | 225250 |
| 10285144                              | Ideal POD HIU INDIRECT I705 WIRED MBUS METER    | 225251 |
| <b>INDIRECT - WIRELESS MBUS METER</b> |   |        |
| 10285145                              | Ideal POD HIU INDIRECT I305 WIRELESS MBUS METER | 225256 |
| 10285146                              | Ideal POD HIU INDIRECT I405 WIRELESS MBUS METER | 225257 |
| 10285147                              | Ideal POD HIU INDIRECT I505 WIRELESS MBUS METER | 225258 |
| 10285148                              | Ideal POD HIU INDIRECT I605 WIRELESS MBUS METER | 225259 |
| 10285149                              | Ideal POD HIU INDIRECT I705 WIRELESS MBUS METER | 225260 |
| <b>HIU - DIRECT</b>                   |   |        |
| <b>DIRECT - No Meter</b>              |   |        |
| 10285150                              | Ideal FIRST FIX KIT POD HIU DIRECT              | 224652 |
| 10285151                              | Ideal POD HIU DIRECT D30 NO METER               | 225243 |
| 10285152                              | Ideal POD HIU DIRECT D40 NO METER               | 225244 |
| 10285153                              | Ideal POD HIU DIRECT D50 NO METER               | 225245 |
| 10285154                              | Ideal POD HIU DIRECT D60 NO METER               | 225246 |
| <b>DIRECT - WIRED MBUS METER</b>      |   |        |
| 10285155                              | Ideal POD HIU DIRECT D30 WIRED MBUS METER       | 225252 |
| 10285156                              | Ideal POD HIU DIRECT D40 WIRED MBUS METER       | 225253 |
| 10285157                              | Ideal POD HIU DIRECT D50 WIRED MBUS METER       | 225254 |
| 10285158                              | Ideal POD HIU DIRECT D60 WIRED MBUS METER       | 225255 |
| <b>DIRECT - WIRELESS MBUS METER</b>   |   |        |
| 10285159                              | Ideal POD HIU DIRECT D30 WIRELESS MBUS METER    | 225261 |
| 10285160                              | Ideal POD HIU DIRECT D40 WIRELESS MBUS METER    | 225262 |
| 10285161                              | Ideal POD HIU DIRECT D50 WIRELESS MBUS METER    | 225263 |
| 10285162                              | Ideal POD HIU DIRECT D60 WIRELESS MBUS METER    | 225264 |
| <b>HIU - ACCESSORIES</b>              |   |        |
| 10285163                              | Ideal CREDIT CONTROL VALVE KIT                  | 224656 |
| 10285164                              | Ideal FLUSHING BYPASS PERMANENT KIT             | 224657 |
| 10285165                              | Ideal FLUSHING BYPASS UNION KIT (1 PAIR)        | 225425 |
| 10285166                              | Ideal FLUSHING BYPASS TEMPORARY KIT             | 224658 |
| 10285167                              | Ideal HEAT METER WIRED MBUS KIT                 | 224687 |
| 10285168                              | Ideal HEAT METER WIRELESS MBUS KIT              | 224688 |


 Sales: 0330 123 9669  
 Spares: 0330 123 9779  
[www.worcester-bosch.co.uk](http://www.worcester-bosch.co.uk)

## HIU - HEAT INTERFACE UNIT

| CODE                          | DESCRIPTION                                      | MPN        |
|-------------------------------|--|------------|
| <b>HIU</b>                    |  |            |
| <b>No Meter</b>               |  |            |
| 107509                        | Greenstar HIU E Without Heat meter               | 7733600139 |
| 107510                        | Greenstar HIU Without Heat mtr                   | 7733600141 |
| 107356                        | Greenstar HIUE + Without Heat Mtr                | 7733600137 |
| 10812501                      | Greenstar HIU                                    | 7735600658 |
| 10812401                      | Greenstar HIU E                                  | 7735600659 |
| 10812201                      | Greenstar HIU KE                                 | 7735600661 |
| <b>SPARES AND ACCESSORIES</b> |  |            |
| 107517                        | Greenstar HIU Flusing Valve                      | 7733600133 |
| 107389                        | Greenstar Spring Wtr Htr Higr t Point            | 7736500605 |
| 107397                        | Greenstar HDU                                    | 7738310662 |
| 107398                        | Greenstar HDU Bottom Cover                       | 8736500041 |
| 107518                        | HIU Vert Plumb Kit                               | 7733600127 |
| 10739501                      | HIU Wall Fixing Bracket                          | 7733601727 |
| 10822801                      | Module IP-Gateway Bosch MiAc-O                   | 7736604250 |
| <b>HIU</b>                    |  |            |
| <b>With Meter</b>             |  |            |
| 107351                        | Greenstar HIU E + C/W Heat meter                 | 7733600136 |
| 107352                        | Greenstar HIU With Heat meter                    | 7733600140 |
| 107353                        | Greenstar HIU KE + With Heat Mtr                 | 7733600134 |
| 107355                        | Greenstar HIU E + "With Heat Meter" 7733 600 136 | #N/A       |
| 10823701                      | Greenstar HIU E With Heat Mete                   | 7735600724 |
| 10812301                      | Greenstar HIU E With HM                          | 7735600660 |
| 10823801                      | Greenstar HIU KE With Heat Met                   | 7735600725 |
| 10812101                      | Greenstar HIU KE With HM                         | 7735600662 |
| 10823901                      | Greenstar HIU With Heat Meter                    | 7735600726 |
| 10812601                      | Greenstar HIU With HM                            | 7735600663 |



# MAKE YOUR JOB EASIER WITH

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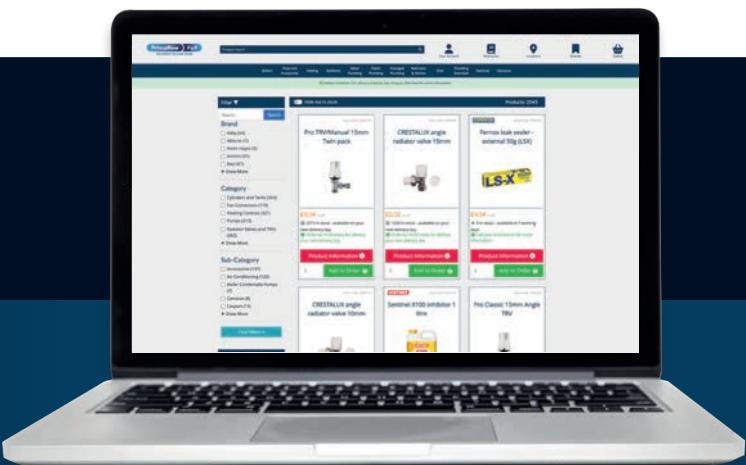
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# REDUCING CARBON

There is a lot of attention on Air Source heat pumps, as a means to reduce domestic heating emissions in the UK. Clearly we expect sales to grow of these new technologies led by Government policy to reduce Co2 emissions. However, in the meantime there is still plenty that can be done to help reduce emissions for natural gas boilers. Merchants and boiler engineers both play a part in this process.

**Below are four steps that can reduce the carbon footprint of traditional heating systems and save homeowners money along the way.**

**1) Fit an efficient boiler** - In general, consumers can expect to save between £205 and £365 per year on energy bills when upgrading to an A-rated boiler with modern controls.

For example, the Energy Saving Trust estimates that a detached home with an E-rated boiler could save £365 per year by upgrading to an A-rated boiler. A semi-detached home could save £255 per year, and a terraced home could save £205 per year.

**2) Deep cleaning heating systems** - The deep cleaning of heating systems has long term benefits for both system efficiency and reliability.

If a dirty system is cleaned thoroughly, the chances of breakdowns leaving a customer without heating and hot water are greatly reduced as well as improvements to the efficiency of the overall system.

Clean and maintained system:

- Reduces the amount of gas used to heat the home by **up to 7%** and therefore save 7%
- Gives up to **47% more heat** from radiators, meaning the boiler is working for less time to provide the needed comfort levels.
- **Extend the life of the boiler** by enabling it to work efficiently throughout its lifetime.

**3) Fit a filter and top up chemicals** - Once the heating system is clean, help it stay that way, with a magnetic filter and the correct levels of inhibitor; this can keep an efficient boiler running that way for longer. Band A efficiency boilers can move to band E performance in a week if installed onto a system with high sludge levels.

**4) Control your heating** - Modern heating controls can help UK homes save between £60 and £100 per year on their heating bills. Simply turning down the thermostat by one degree could save customers up to £60 per year.

Programmable thermostats allow customers to set different temperatures for different times of day. This can help to save energy by only heating the home when it's actually being used.

Smart thermostats are connected to the internet and can be controlled remotely using a smartphone or tablet. This allows customers to adjust heating settings even when not at home. Many smart systems include location tracking to turn the heating off when no one is home.

Thermostatic radiator valves (TRVs) allow customers to control the temperature of individual radiators. This can help save energy by only heating the rooms that are in use.

With many UK households looking for ways to reduce costs at the same time as their carbon footprint, these 4 points can be great talking points and sales opportunities for heating engineers.

For customers looking to take further steps to reduce carbon, a hybrid system upgrade can be the first step towards this.

**Hybrid systems are a more flexible option for the short term renewable future, they are suitable for a wide variety of homes across the UK, as they can be retrofitted into an existing heating system or perfectly suited for new build and full home renovations.**

Hybrid heating and hot water systems are a combination of two or more technologies generating heat together as a low carbon alternative for home heating.

For example - installing an air source heat pump for your hot water usage, these units fit into a similar space a cylinder would, but generate hot water from the internal heat pump built directly into the cylinder.

Typical hybrid installations involve fitting a heat pump that delivers low carbon heat, supported by all the benefits and back-up of a gas combi boiler for all year-round comfort. The best of both worlds where the heat pump is expected to generate heat for 70-80% of the time and, during colder months, the boiler acts as a top-up, giving all year-round comfort.

# CIRCULATOR PUMPS

Heating pumps are essential components of a comfortable home. High-efficiency circulator pumps offer total reliability, easy installation and significant energy savings through intelligent technology.



Circulator pumps are the third most electricity consumptive device in homes.

There are countless appliances that are smart to replace, but a prime example comes from circulator pumps. It is easy to replace older pumps with new models, the payback period is one year – and today's pumps are up to 10 times more efficient than older pumps.

It is estimated that two thirds of pumps run at full capacity at all times – resulting in waste of energy every day. A major waste of energy that you could easily prevent with smart circulator pumps that adapt to the actual energy need.

Running old circulator pumps can be inefficient and costly. Fitting a new energy efficient pump enables homeowners to save up to £110 a year without compromising on comfort.

## CIRCULATOR PUMPS



| CODE                        | DESCRIPTION   | MPN      |
|-----------------------------|---------------|----------|
| <b>DOMESTIC CIRCULATORS</b> |               |          |
| 115056                      | UPS3 15-50/60 | 99199622 |

| CODE                        | DESCRIPTION     | MPN      |
|-----------------------------|-----------------|----------|
| <b>DOMESTIC CIRCULATORS</b> |                 |          |
| 11529101                    | Alpha1 15-50N   | 99415696 |
| 11510001                    | Alpha1 15-50/60 | 99415672 |
| 115092                      | Alpha3 15-50/60 | 99371966 |

## CIRCULATOR PUMPS



| CODE                        | DESCRIPTION  | MPN   |
|-----------------------------|--------------|-------|
| <b>DOMESTIC CIRCULATORS</b> |              |       |
| 11489101                    | ST15/60B-130 | 47074 |
| 11489001                    | ST15/60-130  | 47073 |
| 11489201                    | ST25-80-180  | 47075 |

| CODE                        | DESCRIPTION            | MPN   |
|-----------------------------|------------------------|-------|
| <b>DOMESTIC CIRCULATORS</b> |                        |       |
| 11489501                    | Pulse Trade 25/60-130  | 47505 |
| 11489601                    | Pulse Trade 25/80-180  | 47540 |
| 11489701                    | Pulse Trade 25/100-180 | 47542 |
| 11489801                    | Pulse Trade 25/120-180 | 47544 |

# WATER TREATMENT RETROFIT

An efficient and well maintained heating system not only lasts longer it also produces less CO<sub>2</sub> emissions.

Water Treatment is more than just a way to keep a heating system from breaking down, But they help the planet too.

**If a heating system is working efficiently, it wastes less water and energy and thus produces less carbon emissions.**

Keep your heat pump system bacteria and fungi free whilst improving your heat transfer efficiency by using the right chemicals.

Biocides are specifically designed to neutralise bacteria and fungi that live and grow in low temperature heating systems. Heat Pumps and underfloor heating systems without biocides could suffer from degradation of thermal fluids, blockages, unpleasant smells and corrosion of system components if left untreated.



Products formulated specifically for air and ground source heat pumps, often based on ethylene or propylene glycol, have been designed to extend the longevity of heat pump systems by protecting against corrosion and limescale. The solution will also protect against freezing at temperatures from -10°C to -33°C.

Chemicals need to be compatible with all metals and materials commonly found in heat pump systems. The products on the following pages have been designed to perfectly work with a wide range of Heat pumps.

**21.5**  
**MILLION**  
BOILERS  
IN THE UK

**15%**  
OF BOILERS BREAK  
DOWN IN FIRST YEAR

**60%**  
OF THESE  
DUE TO  
**SLUDGE**

**80%**  
OF ALL BOILER  
BREAKDOWNS IN  
THE FIRST 5 YEARS  
ARE DUE TO  
**SLUDGE**

BOILER BREAKDOWNS  
COST THE UK OVER  
**£700**  
**MILLION**  
PER YEAR IN  
UNEXPECTED BILLS

A **BAND A**  
BOILER CAN MOVE TO  
**BAND E**  
PERFORMANCE  
**IN A WEEK**  
IF INSTALLED  
ONTO A SYSTEM WITH  
HIGH SLUDGE LEVELS



## WATER TREATMENT RETROFIT



| CODE                                  | DESCRIPTION                               | MPN           |
|---------------------------------------|---|---------------|
| <b>CHEMICALS</b>                      |   |               |
| <b>Anti-freeze</b>                    |   |               |
| 189338                                | Adey MCZero Anti-Freeze Liquid 10 Ltr     | CPI-03-01045  |
| <b>Biocide</b>                        |   |               |
| 18941601                              | Adey MC10+ Biocide 500ml WE               | CHI-03-03268- |
| 189359                                | Adey Rapide MC10+ 300ml                   | CHI-03-02040  |
| <b>Cleaner</b>                        |   |               |
| 70070082                              | MC5 Rapidflush System Cleaner             | CPI-03-00999  |
| 70070081                              | Adey MC3 Cleaner MC3C                     | MC3C          |
| 189353                                | Adey MC3+ 500ml                           | CHI-03-01670  |
| 189346                                | Adey MC3+ Rapide 300ml Cleaner            | CHI-03-01645  |
| 189336                                | Adey MC5 Rapidflush sys Cleaner 10 Ltr    | CP1-03-01001  |
| 189322                                | Adey MC3+ Cleaner 10 Ltr                  | CHI-03-01726  |
| 189321                                | Adey MC3+ Cleaner 5 Ltr                   | CHI-03-01725  |
| <b>Leak Sealer</b>                    |   |               |
| 189358                                | Adey Magnaclean MC4+ Rapide 300ml         | CHI-03-02039  |
| 189332                                | Adey MC4 Leak aler Liquid 500ml           | CPI-03-00998  |
| 18942401                              | Adey MCXS - External Leak Sealant & Join  | CHI-03-05833  |
| <b>Noise Reducer</b>                  |   |               |
| 189331                                | Adey MC2 Silencer Liquid 500ml            | CPI-03-00994  |
| <b>Protector</b>                      |   |               |
| 70070080                              | Adey MC1 Protector MCIP                   | MCIP          |
| 189352                                | Adey MC1+ 500ml                           | CHI-03-01669  |
| 189345                                | Adey MC1+ Rapide 300ml Protector          | CHI-03-01640  |
| 189319                                | Adey MC1+ Protector 5 Ltr                 | CHI-03-01723  |
| <b>Adaptors &amp; System Flushing</b> |   |               |
| 70070079                              | Magnacense Complete Solutions kit         | MACK01        |
| 18942001                              | Adey Worcester Mini System Adaptor (pair) | PK2-03-04754  |
| 189304                                | Vibraclean VC001/VC002                    | VC001/VC002   |

| CODE                              | DESCRIPTION                             | MPN             |
|-----------------------------------|---|-----------------|
| <b>PHYSICAL</b>                   |   |                 |
| <b>Filter &amp; Chemical Pack</b> |   |                 |
| 70070078                          | Magnaclean Proffessional2 Chemical Pack | CPI-03-00625-01 |
| 18941501                          | Adey Magnaclean Atom Chemical Pack      | FL1-03-05120    |
| 189351                            | Adey Micro Cmical Pack With MCIP & MC3C | FL1-03-01867    |
| 189350                            | Magnaclean Pro1 Filter Cmical Pack      | FL1-03-01868    |
| 189342                            | Magnaclean Micro2 Filter Cmical Pack    | FL1-03-01275    |
| <b>Magnetic Filter</b>            |   |                 |
| 70070077                          | Magnaclean Micro                        | MCM22001        |
| 70070022                          | MagnaClean professional filter 22mm     | MC22002         |
| 18941301                          | Magnaclean Professional Pro3 Sense      | FL1-03-03434    |
| 18941201                          | Adey Magnaclean Atom                    | FL1-03-03779    |
| 189412                            | Magnaclean 3" Commercial Jacket         | CPI-03-01886    |
| 189407                            | Magnaclean 6 Inch Commercial            | CPI-03-01126    |
| 189406                            | Magnaclean 4 Inch Commercial            | CPI-03-01125    |
| 189405                            | Magnaclean 3 Inch Commercial            | CPI-03-01124    |
| 189404                            | Magnaclean 2 Inch Commercial            | CPI-03-01123    |
| 189347                            | Adey Magnaclean Dual XP 35mm/42mm       | FL1-03-02028    |
| 189344                            | Adey MagnaClean Professional 2XP 28mm   | FL1-03-01357    |
| 189341                            | Magnaclean Micro2 Inline Filter Blk     | FL1-03-01274    |
| 189318                            | Magnaclean Inline Prof 2 22mm Filter    | CPI-03-00022-01 |
| 189317                            | Magnaclean Upgrade Pack                 | MCUPPK          |
| 189306                            | Magnaclean Twintech 22mm                | MCTT001         |

| CODE                 | DESCRIPTION                          | MPN             |
|----------------------|--------------------------------------|-----------------|
| <b>PHYSICAL</b>      |                                      |                 |
| <b>Scale Reducer</b> |                                      |                 |
| 18942301             | Adey Magnascale2 15mm Compression    | SR1-03-05230    |
| 18942201             | Adey Electroscale2 22mm Compression  | SR1-03-05233    |
| 18942101             | Adey Electroscale2 15mm Compression  | SR1-03-05214    |
| <b>Testing</b>       |                                      |                 |
| 18941801             | ADEY ProCheck® Refill Kit (25 Tests) | PK2-03-05133    |
| 18941701             | ADEY ProCheck® Test Kit (25 Tests)   | CPI-03-05132    |
| 189324               | Adey MCI Water Test Kit              | CPI-03-00626-01 |
| 189323               | Adey MCI Quick Test                  | CPI-03-00742-01 |

## WATER TREATMENT RETROFIT



| CODE                       | DESCRIPTION                               | MPN   |
|----------------------------|---|-------|
| <b>CHEMICALS</b>           |   |       |
| <b>Anti-freeze</b>         |   |       |
| 231046                     | Fernox Anti Freeze Alpha 11 25 Ltr        | 23980 |
| <b>Biocide</b>             |   |       |
| 50010245                   | Fernox Biocide F7                         | 62393 |
| <b>Cleaner</b>             |   |       |
| 50010439                   | Fernox Power Cleaner F8 (EU Only)         | 62487 |
| 50010438                   | Fernox Central Heating Cleaner 500ml F3   | 62095 |
| 50010336                   | Fernox Central Heating Cleaner F3 Exp     | 62420 |
| 50010240                   | FERNOX F3 cleaner 500ml                   | 56600 |
| 50010186                   | Fernox Power Cleaner F8                   | 62486 |
| 50010185                   | Fernox System Neutraliser                 | 62482 |
| 50010184                   | Fernox DS40 Cleaner And Descaler          | 62475 |
| 23118501                   | Fernox Cleaner F3 265ml                   | 62455 |
| 231043                     | Fernox DS10 7 kg Dry-Side Cleanr          | 61029 |
| 50010343                   | Fernox Cleaner F3 10 Litre                | 62555 |
| 199183                     | Fernox Cleaner F3 265ml                   | 62455 |
| <b>Heat Transfer Fluid</b> |   |       |
| 50010340                   | Fernox Heat Transf Fluid HP-EG 20 Litre   | 62595 |
| <b>Inhibitor</b>           |   |       |
| 231138                     | Fernox Solar SI Inhib Heat Fluid 20 Ltr   | 57674 |
| 231137                     | Fernox Solar SI Inhib Heat Fluid 10 Ltr   | 57675 |
| 50010341                   | Fernox Express Inhibitor Test             | 62514 |
| <b>Leak Sealer</b>         |   |       |
| 50010440                   | Fernox Central Heating Leak Sealer F4     | 62097 |
| 50010337                   | Fernox Central Heating Leak Sealer F4 Ex  | 62422 |
| 50010255                   | FERNOX leak sealer - external 50g (LSX)   | 61016 |
| 50010254                   | FERNOX F4 leak sealer 500ml (LSI)         | 56603 |
| <b>Noise Reducer</b>       |   |       |
| 50010335                   | Fernox Central Heating Boiler Noise Sile  | 62421 |
| <b>Protector</b>           |   |       |
| 50010436                   | Fernox Central Heating F1 Protector       | 62094 |
| 50010334                   | Fernox Central Heating Protector F1 Exp   | 62418 |
| 50010234                   | FERNOX F1 protector 500ml                 | 56599 |
| 50010112                   | FERNOX ALPHI 11 protector/ antifreeze 5lt | 61033 |
| 23118401                   | Fernox Protector F1 265ml                 | 62454 |
| 231165                     | Fernox Filter Fluid & Prctr Exprss 400ml  | 62310 |
| 50010342                   | Fernox Protector F1 10 Litre              | 62554 |

| CODE                              | DESCRIPTION                               | MPN   |
|-----------------------------------|---|-------|
| <b>PHYSICAL</b>                   |   |       |
| <b>Filter &amp; Chemical Pack</b> |   |       |
| 50010344                          | Fernox Protector + Filter Fluid F9 10 L   | 62557 |
| 231159                            | Fernox F1 Filter Fluid+ Protector 500ml   | 62234 |
| <b>Magnetic Filter</b>            |   |       |
| 50010435                          | FERNOX TF1 total filter 28mm              | 59257 |
| 50010424                          | FERNOX TF1 total filter 22mm              | 59256 |
| 50010422                          | FERNOX TF1 Compact 22mm                   | 62131 |
| 50010102                          | Fernox TF1 Omega Filter Seal And O-Ring   | 62334 |
| 23117701                          | Fernox TF1 Omega Filter Installer Pack    | 62506 |
| 23117601                          | Fernox TF1 Sigma Filter Installer Pack    | 62509 |
| 23117401                          | Fernox TF1 Sigma 28mm With Valves         | 62417 |
| 23117301                          | Fernox TF1 Sigma 22mm With Valves         | 62415 |
| 23117201                          | Fernox TF1 Sigma 22mm Slip Socket         | 62414 |
| 231171                            | Fernox TF1 Service Kit 59288              | 59288 |
| 231169                            | Fernox TF1 Omega Flushing Adaptor         | 62289 |
| 231164                            | Fernox TF1 Omega 28mm Filter Without Vlvs | 62251 |
| 231163                            | Fernox TF1 Omega 28mm Filter C/W Vlvs     | 62252 |
| 231162                            | Fernox TF1 Omega 22mm Filter Without Vlvs | 62248 |
| 231161                            | Fernox TF1 Omega 22mm Filter c/w Vlvs     | 62249 |
| 231160                            | Fernox TF1 Delta Filter 2 Inch            | 62226 |
| 231148                            | Fernox TF1 Omega Inst Pack 22mm w Valves  | 62368 |
| 50010345                          | Fernox Sigma UB Filter                    | 62361 |
| 50010339                          | Fernox TF1 Sigma HP Filter 28mm           | 62615 |
| 50010338                          | Fernox TF1 Sigma HP Filter 22mm           | 62614 |

| CODE                 | DESCRIPTION  | MPN   |
|----------------------|--|-------|
| <b>PHYSICAL</b>      |  |       |
| <b>Scale Reducer</b> |  |       |
| 50010276             | FERNOX DS3 descaler 2kg  | 61027 |
| 231170               | Fernox 22mm Comp Magnetic Scale Red  | 62302 |
| 231167               | Fernox 22mm Electrolytic Comp Scale Rdcr                                       | 62304 |
| 231048               | Fernox Magnetic Scale Reducer  | 58264 |
| 23107201             | Fernox 15mm Compression Electrolytic Sca                                       | 62551 |
| <b>Testing</b>       |  |       |
| 50010306             | FERNOX system check test kit (postal) FERNOX LP Sterox test strips (tub of 50) | 61161 |
| 50010303             | FERNOX LP Sterox 1 litre   | 56726 |
| 50010302             | FERNOX Total Dissolved Solidsmtr   | 56609 |
| 231101               | Fernox Refractometer   | 37641 |
| 231060               | Fernox Refractometer   | 55586 |

# Introducing the innovative **TF1 Sigma HP Filter**

The first filter **specifically designed for heat pump systems**; part of the Fernoxt complete solution for renewable technologies.



*Don't forget the chemicals...*



When it comes to protecting heat pump systems and low temperature installations.

**Insist on the best, insist on Fernoxt**



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**WATER TREATMENT RETROFIT**

Advice line: 01928 704 330  
www.sentinelprotects.com



| CODE                          | DESCRIPTION                             | MPN                   |
|-------------------------------|---|-----------------------|
| <b>CHEMICALS</b>              |   |                       |
| <b>Biocide</b>                |   |                       |
| 189182                        | Sentinel Ground & Air Source 1 Ltr R700 | 1ltr R700             |
| <b>Cleaner</b>                |   |                       |
| 50015125                      | SENTINEL X400 sludge remover 1 litre    | X400L-12X1L-EXPA      |
| 50015119                      | SENTINEL X300 cleaner 1 litre           | X300L-12X1L-EXP       |
| 189253                        | Sentinel Deposit Remover 5 Ltr          | DEP-4X5L-GB           |
| 189251                        | Sentinel X300 20 Ltr Drum               | X300L-20L-GB          |
| 189242                        | Sentinel Rapid Dose GB                  | X400RD-12X300ML-GB    |
| 189213                        | Sentinel X700 Sanitir & Biocide 1 Ltr   | X700L-12X1L-GB        |
| 189207                        | Sentinel X800 Jetflo sys Cleaner 1 Ltr  | X800L-12X1L-GB        |
| 189186                        | Sentinel Solar Cleaner 20 Ltr R200      | R200-20L-DRUM         |
| 189172                        | Sentinel Solar Cleaner 10 Ltr R200      | 10ltr R200            |
| <b>Condensate Neutraliser</b> |   |                       |
| 18928901                      | Sentinel Condensafe Plus Refill         | CONDENSAFE+REFILL-EXP |
| 189288                        | Condensafe + Neutraliser                | CONDENSAFE-PLUS-EXP   |

| CODE                       | DESCRIPTION                             | MPN                |
|----------------------------|---|--------------------|
| <b>CHEMICALS</b>           |   |                    |
| <b>Heat Transfer Fluid</b> |   |                    |
| 189185                     | Sentinel Grnd Source 20 Ltr Conc R500c  | R500C-20L-DRUM     |
| 189181                     | Sentinel Air Source 20 Ltr              | 20ltr R600         |
| <b>Inhibitor</b>           |   |                    |
| 50015203                   | SENTINEL RAPID DOSE X100 inhibitor      | X100RD-12X300ML-GB |
| 50015107                   | SENTINEL X500 inhibitor/ antifreeze Str | X500L-4X5L-GB      |
| 50015101                   | SENTINEL X100 inhibitor 1 litre         | X100L-12X1L-EXPA   |
| 189250                     | Sentinel X100 20 Ltr Drum               | X100L-20L-GB       |
| 189171                     | Sentinel Solar Inhibitor 20 Ltr R100    | 20ltr R100         |
| 189170                     | Sentinel Solar Inhibitor 10 Ltr R100    | 10ltr R100         |
| <b>Leak Sealer</b>         |   |                    |
| 50015146                   | SENTINEL internal leak sealer 1 litre   | LS-12X1L-GB        |
| 189243                     | Sentinel Rapid Dose Leak Sealer 300ml   | LS_RD-12X300ML-GB  |
| 189220                     | Sentinel Internal Leak Sealer 1 Ltr     | LS-12X1L-GB        |
| <b>Noise Reducer</b>       |   |                    |
| 50015110                   | SENTINEL X200 noise reducer 1 litre     | X200L-12X1L-EXP    |

| CODE                              | DESCRIPTION                              | MPN                   |
|-----------------------------------|--|-----------------------|
| <b>PHYSICAL</b>                   |  |                       |
| <b>Filter &amp; Chemical Pack</b> |  |                       |
| 18927201                          | Sentinel Vortex Protection Pack          | VOTEX-PROTECTION-PK   |
| 189232                            | Sentinel System Check Pack               | SYSCHECK-GB           |
| 189229                            | Sentinel Elim Vort 300ml Plast Tee 22mm  | ELIMV300-GRP22-GB     |
| 189195                            | SENTINEL SYSTEM CHECK PACK - GBL6623B    | SYSCHECK-GB           |
| 189194                            | SENTINEL VORTEX SYSTEMCARE PACK F        | SYS CARE-VORTEX-F-SW+ |
| 189193                            | SENTINEL VORTEX SYSTEMCARE PACK D        | SYS CARE-VORTEX-D-SW  |
| 189191                            | SENTINEL VORTEX SYSTEMCARE PACK B        | SYS CARE-VORTEX-B-SW  |
| 189190                            | SENTINEL VORTEX SYSTEMCARE PACK A        | SYS CARE-VORTEX-A-HW  |
| 189189                            | Sentinel Vortex Best Practice Pack       | VORTEX-BP-PACK        |
| <b>Scale Reducer</b>              |  |                       |
| 189284                            | Electrolytic Scale Reducer 22mm SI       | SESI22                |
| 189283                            | Electrolytic Scale Reducer 15mm SI       | SESI15                |
| <b>Testing</b>                    |  |                       |
| 189222                            | Sentinel Test Kit For X100               | X100T-T-EXP           |
| 189184                            | Sentinel Grnd&Air Sore Frst Cck Test Kit | FROSTCHECK-TEST-KIT   |
| 50015117                          | Sentinel InstaCheck Refill 2 Inhib       | INSTACHECKT2          |
| 50015116                          | Sentinel InstaCheck Refill Bundle Test   | INSTACHECKT1          |
| 50015115                          | Sentinel InstaCheck Refill Test 1 Water  | INSTACHECKT1          |
| 50015114                          | Sentinel InstaCheck Engineers Test Kit   | INSTACHECKKIT         |
| <b>Water Conditioning</b>         |  |                       |
| 50015118                          | Sentinel Water Softener 1 W/ Filtration  | SUMO-SOFTENER-GB      |

## WATER TREATMENT RETROFIT



| CODE                          | DESCRIPTION                              | MPN    |
|-------------------------------|--|--------|
| <b>CHEMICALS</b>              |  |        |
| <b>Cleaner</b>                |  |        |
| 50090123                      | SCALEMASTER SM4 sludge remover           | 500317 |
| 50090116                      | SCALEMASTER SM3 cleaner                  | 500218 |
| 189592                        | Scalermaster SM8 Power Flush             | 500355 |
| <b>Condensate Neutraliser</b> |  |        |
| 70091370                      | S-Master Condensemaster neutralizer 22mm | 600703 |

| CODE                                     | DESCRIPTION                              | MPN    |
|--|--|--------|
| <b>CHEMICALS</b>                         |  |        |
| <b>Inhibitor</b>                         |  |        |
| 50090102                                 | SCALEMASTER SM1 inhibitor                | 500010 |
| 189551                                   | Smaster 10 Year Corrosion Inhibitor 22mm | 600017 |
| <b>Leak Sealer</b>                       |  |        |
| 189591                                   | Scalermaster SMS Leak aler 500ml         | 500324 |
| <b>Non-Chemical Corrosion Protection</b> |  |        |
| 70091303                                 | S-M CORROSION MASTER 5 year protect 22mm | 600307 |

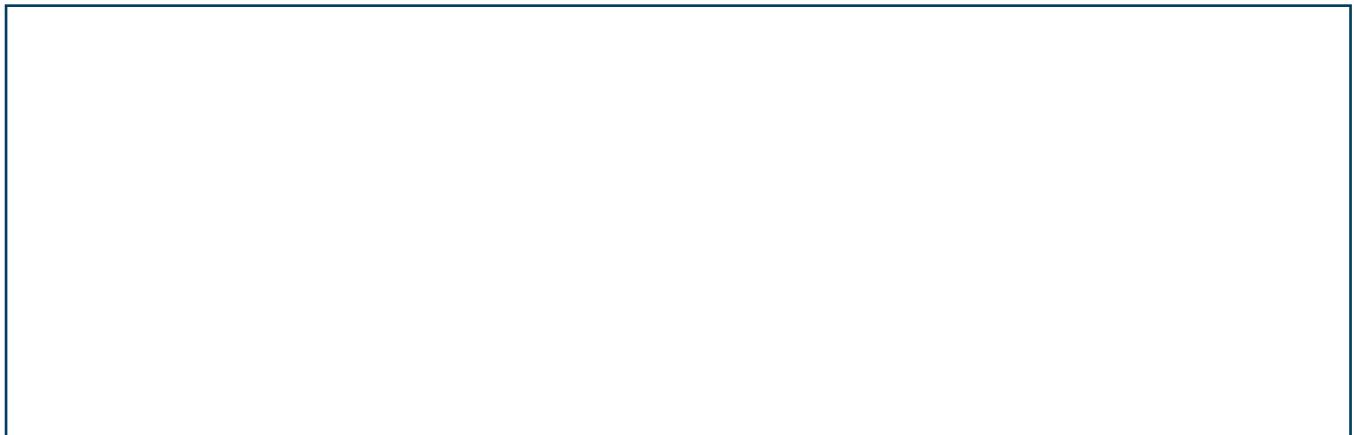
| CODE                 | DESCRIPTION                        | MPN    |
|----------------------|------------------------------------|--------|
| <b>PHYSICAL</b>      |                                    |        |
| <b>Scale Reducer</b> |                                    |        |
| 70091259             | Scalermaster Magnetic Gold 22mm    | 400259 |
| 70091252             | Scalermaster Magnetic Gold 15mm    | 400143 |
| 50090109             | SCALEMASTER SM2 descaler           | 500119 |
| 189543               | Scalermaster Electroltic 28mm Gold | 402031 |

## Non-Chemical Corrosion Protection

Oxygen plays a central role in the corrosion of central heating systems, entering in the form of dissolved oxygen via tap water used for filling. As fire dies upon the removal of oxygen so the corrosion process also ceases. Corrosion Master significantly retards the corrosion process by raising the pH and restricting the amount of dissolved oxygen in the water. Once the dissolved oxygen has been eliminated the unit shuts down to be automatically reactivated upon the introduction of fresh oxygenated water. Additionally Zinc species that polarise existing corrosion cells are released into the water.



WE SIMPLY DELIVER MORE



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Prices may be changed without prior notice. E & OE.