

Heat Pump Connections

Solutions to integrate air to water heat pumps with heating and hot water systems



Watts Industries UK offers a wide range of components that seamlessly integrate air-to-water heat pump systems with heating and hot water networks. Our solutions are suitable for both new build and retrofit projects and aim to maximise energy efficiency and provide building occupants with their desired comfort levels.

Heat pump connection

Connection of the air-to-water heat pump to the heating and hot water system is made easy thanks to our Microflex HP pipe, which provides water pipes and conduits for electrical connections inside one pipe. Microflex HP can be supplied cut to length together with the required connection fittings, saving time and money during installation.

Heating system

Underfloor heating manifolds and circulation pumps ensure optimum temperature water circulates efficiently around the heating system. Both underfloor heating and radiators can be used within one system giving optimum flexibility in system design for both new build and retrofit applications. Our iDROSET® balancing valve helps keep the entire system running as efficiently as possible, providing accurate balancing of the system to minimise energy consumption.

Controls

Comfort levels can be managed in individual zoned areas through our state-of-the-art controllers and smart thermostats, which allow systems to be programmed with features such as night setback to conserve energy usage.

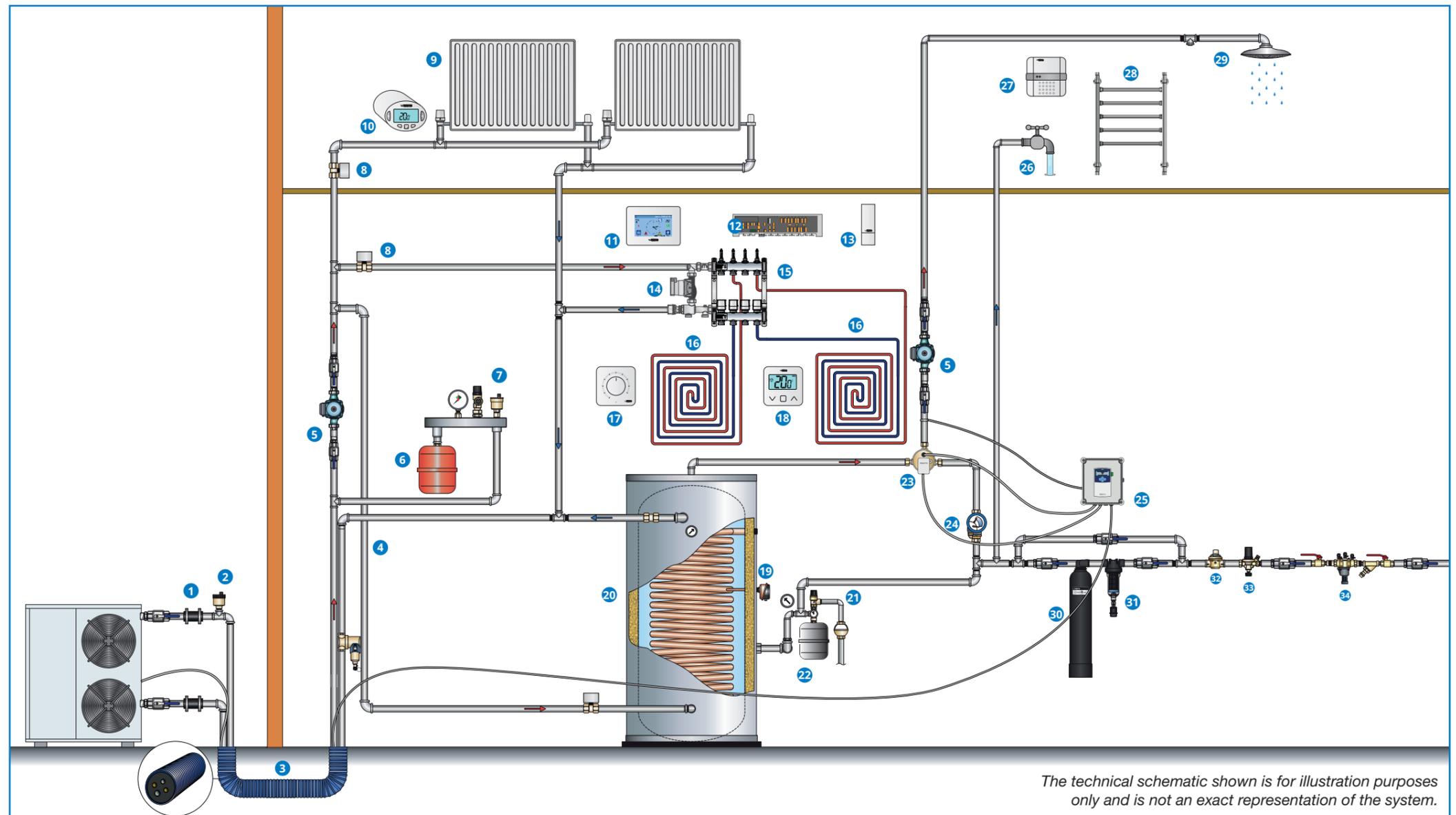
Water quality and safety

Water quality is ensured with our KIWA-accredited OneFlow® scale prevention solutions designed to improve the life of system components by reducing scale formation. e-ULTRAMIX® helps to manage water temperature to reduce the risk of scalding and legionella. Water pressure is managed with our PRV systems, whilst our backflow prevention systems give peace of mind that the water is free from contaminants.

Get in Touch

At Watts we understand the importance of compatibility and versatility when it comes to heat pump system integration providing components designed for seamlessly integration. Our team are on hand to assist you just call 01480 407074 or email ukenquiries@wattswater.co.uk

Residential heating and hot water schematic diagram



The technical schematic shown is for illustration purposes only and is not an exact representation of the system.

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|---|--|--|
| 1 Expansion joint - ZKB | 13 RF receiver - BT-WR02 RF HC | 24 Static balancing valve - iDROSET® |
| 2 Automatic airvent - Microvent / Minivent | 14 UFH Pumpset - Isomix F | 25 E-ultramix controller |
| 3 Pre-insulated pipe connection - Microflex HP | 15 UFH stainless steel manifold - HKV | 26 Cold water tap |
| 4 Magnetic Dirt Separator - WCS | 16 Underfloor heating circuit | 27 Flush-wall-mounting receiver - BT-FR02 RF |
| 5 Circulation pump | 17 Dial Thermostat - WT-A03 | 28 Heated towel rail (electric) |
| 6 Expansion vessel | 18 Programmable digital room thermostat BT-D03 | 29 Thermostatic shower head |
| 7 Safety Group - GSM / FSR | 19 Immersion thermostat - Aqualux20 | 30 Scale Control System - Oneflow® |
| 8 Motorised Zone Valve - EZB | 20 Unvented hot water cylinder | 31 Incoming mains water Pre-filter |
| 9 Radiators | 21 Pressure reducing valve - MSV | 32 Pressure reducer - Desbordes |
| 10 Radiator thermostat - BT-TH02 RF | 22 Hot water expansion vessel | 33 Filling valve - Alimat |
| 11 Heating central control unit - BT-CT02 RF WIFI | 23 Thermostatic mixing valve - e-ULTRAMIX® | 34 Backflow preventor - BABM |
| 12 Modular RF connection box BT-M6Z02 RF | | |

Packaged Component Kits

Kit 1 Single Zone Extension

Code: 10087482

RF Thermostat & RF Receiver

Kit 2 Towel Radiator Pack

Code: 10087483

RF Thermostat & Flush Mount Receiver

Kit 3 Conservatory Pack

Code: 10087484

2 Port Manifold (2PORTSSO4) End Set (3136120N) & ISO MIX F Pump Set (10084161)

Kit 4 4 Zone Control Pack

Code: 10087485

6 Zone Heat+ Wiring Controller (P08282) & 4 x Thermostats (P08017)

Kit 5 6 Zone UFH Installation Pack

Code: 10087486

6 Zone Heat+ Wiring Controller (P08282) with 6 x 22CX Actuators (22CX230NC2)

Kit 6 8 Zone UFH Installation Pack

Code: 10087487

8 Zone Heat+ Wiring Controller (P08283) with 8 x 22CX Actuators (22CX230NC2)

Kit 7 10 Zone UFH Installation Pack

Code: 10087488

10 Heat+ Wiring Controller (P08285) with 10 x 22CX Actuators (22CX230NC2)

Kit 8 Vision smart upgrade pack

Code: Coming Soon

Vision Central Controller (P08314) plus 2 x Digital Thermostats (P07710) and 2 Single Channel Receivers (P07296)

Kit 9 Heating Control Pack

Code: 10087489

3 Port 22mm Diverter Valve (EZV-314) Wired Programmable Room Thermostat, Heat Wiring Controller and BRC Cylinder Thermostat

Kit 10 2 Zone Heating Control Pack

Code: Coming Soon

2 x Port 22mm Zone Valves, Wired Programmable Room Thermostat, Heat Wiring Controller and BRC Cylinder Thermostat

Kit 11 Heat Pump Controls Pack (Radiators)

Code: 10087491

6 Zone Heating & Cooling Wiring Controller (P08287) with Wired Programmable Thermostat

Kit 12 Heat Pump Controls Pack (UFH)

Code: Coming Soon

6 Zone Heating & Cooling Wiring Controller plus Programmable Thermostat and 5 x Dial Thermostats (P08017)



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