

inta



HIPER
heat interface units

Storage Interface Unit

Combining instantaneous hot water and storage



Communal heat networks

A central boiler house generates heat which is distributed through a network of pipes to each home or apartment in the building. Each dwelling has its own Heat Interface Unit (HIU) which uses the heat from the network to provide heating and hot water for the home.



Advantages for Designers, Developers and Architects

- Gas supply not required for individual HIUs
- No flues needed to exhaust combustion
- No storage cylinder required
- Meets low emission and efficiency targets



Advantages for Landlords

- Reduced service and maintenance costs
- Metered energy usage for fairer and more accurate tenant billing
- Practical for combining with lower cost renewable technologies
- No flues to maintain compliance with health and safety legislation



Advantages for the Tenant

- Shared maintenance costs
- Efficiently controlled heating and hot water supply
- Accurate billing reflecting actual energy usage
- Energy consumption awareness promotes energy saving



Energy efficient

- Instantaneous hot water production
- 100 litres of stored hot water
- Electronic temperature control
- Standby mode temperature control
- Lower return temperature to the network
- Radiators or under floor heating
- Minimal maintenance - reduced running costs
- Optimised heating temperature control as standard
- Low carbon heat networks - renewable energy sources



Combining instantaneous hot water and storage

The performance of the Hiper HIU is well documented, but on occasion, there may be a demand for additional service provision.

Examples include:-

- Low primary temperature for a heat pump
- Large DHWS (direct hot water storage) occasionally
- A reservoir of hot stored water
- An additional heat source for DHW as backup

Here, we add the hot water buffer to the Hiper HIU and build it together as one compact, integrated package.

Important features

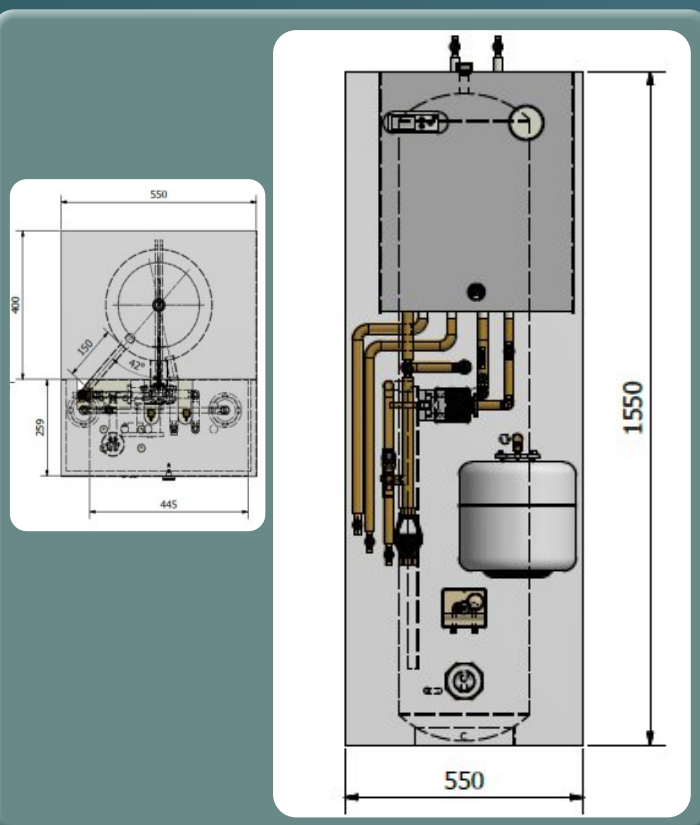
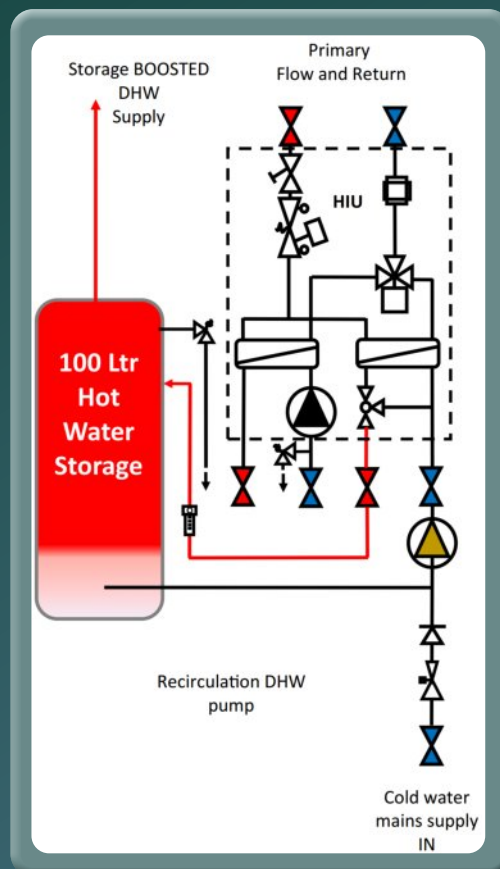
- Compact and space saving
- Storage is instantly replenished
- Optional electrical DHW heating
- Reduced installation costs
- Use with networks fed by heat pumps
- Use in larger homes with higher than average demand
- Fast heat-up and recovery
- No increase in pipe sizes
- Use in prepayment billing systems (no additional valve required)
- Secondary return connections

Plus - all of the advantages of the Hiper HIU

- Low return temperatures to the network
- Optimised heating return temperature control
- Electronic control with PICV
- Radiators or under floor heating
- Wras approved
- Minimal commissioning requirements
- Electronic programming and temperature control

Options

- Electric immersion heater backup
- Timed Legionella pasteurisation cycle
- Fully encased



Hiper HIU specification



Primary (heat supply from communal heat source) Maximum temperature	16 bar
Primary (heat supply from communal heat source) Maximum temperature	90°C
Primary (heat supply from communal heat source) Maximum pressure differential	4 bar
Secondary (central heating) Maximum pressure	3 bar
Secondary (central heating) Maximum temperature	85°C
Secondary (central heating) Temperature adjustment	20°C to 85°C
Secondary (central heating) heating output	Xi6010 = 10kW Xi6015 = 15kW
Domestic hot water (incl. cold water supply main) Maximum pressure	10 bar
Domestic hot water Maximum temperature limited by TMV	60°C
Domestic hot water Temperature adjustment	30°C to 65°C
Domestic hot water output	60kW
Cold water mains supply Recommended pressure at HIU inlet	2 bar
Domestic hot water services Factory setting	55°C
Total annual volume weighted return temperature (no "keep warm" function and for both 70°C and 60°C primary)	30.6°C

DHW store

Capacity - 100 litres
Material - stainless steel 25 year material warranty
Connections - 22mm compression on the cylinder
22mm pressure limiting valve
Flow control valve on HW
Pump
Twin stat control and high limit
Potable water expansion in 2 x 4 ltr Zilmet Wras torpedo tanks

Intatec Limited
Airfield Industrial Estate
Hixon Staffordshire
ST18 0PF

t: 01889 272180
f: 01889 272181

w: www.intatec.co.uk