

## HEAT INTERFACE UNITS

A primary consideration in modern construction is increased energy efficiency, user comfort and energy billing – particularly in multi-dwelling buildings.

As a result Centralised District Heating schemes, supplied by a combination of traditional and renewable energy sources, are becoming widely accepted as the industry norm for new build developments.

Heat Interface Units give Consultants and Engineers a reliable solution which provide eco-friendly, efficient temperature control whilst achieving high energy efficiency and user comfort.

Instantaneous DHW is achieved using both thermostatic and Electronic control – ensuring superb temperature regulation. Equally our high capacity Heat Exchangers and combined constant flow and return temperature controllers allow unrivalled user comfort and efficiency.

The system allows a multitude of Control options ranging from basic proportional control linked to an existing BMS system to full, stand-alone Weather Compensation and Wireless Room stat options- all of which are easily retrofittable and quick to install.

### Benefits

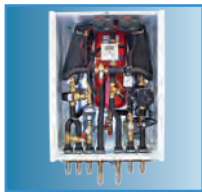
- No gas supply required to individual apartments
- Reduced installation and life cycle costs
- Integration of renewable and low carbon technology into each dwelling
- Lower maintenance
- Greater energy efficiency



Indirect Twin HIU



Indirect Single HIU



#### Indirect Twin HIU

- Hydronic separation between primary and secondary system
- Instantaneous Heating and DHW from plate heat exchangers
- 12l expansion vessel
- Electronic and thermostatic control of DHW – High Flow rates
- Differential pressure control as standard
- Unique DHW control allowing Legionella flush if required
- AISI 316 stainless steel heat exchanger does not require maintenance.
- AISI 316 stainless steel piping prevents any corrosion
- Easy to install and operate

### Specification

Heat transfer capacity	5kW-65kW
Max working pressure primary	10 Bar
Max working pressure secondary(heating)	3 Bar
Min working pressure DHW	2 Bar
Max working temperature	95°C
Connections	¾" BSP Insulated Pipe
Dimensions (H x W x D)	750 x 570 x 321mm

### Options

- First Fix Rail complete with Bypass
- MBUS Heat Meter
- MBUS Water Meter
- Range of Heating controllers allowing Weather Compensation, Wireless Room stat and Indoor sensors.

Part No.	Description	Price Each
28-THIU	Twin HIU complete with cover and insulation	£ POA
28-TJIG	Twin HIU Jig including bypass	£ POA



#### Indirect Single HIU

- Hydronic separation between primary and secondary system
- Instantaneous Heating
- 12l expansion vessel
- Range of interchangeable Controllers for Heating
- Differential pressure control as standard
- AISI 316 stainless steel heat exchanger does not require maintenance
- AISI 316 stainless steel piping prevents any corrosion
- Easy to install and operate

### Specification

Heat transfer capacity	5kW-65kW
Max working pressure primary	10 Bar
Max working pressure secondary(heating)	3 Bar
Min working pressure DHW	2 Bar
Max working temperature	95°C
Connections	¾" BSP Insulated Pipe
Dimensions (H x W x D)	650 x 587 x 215mm

### Options

- First Fix Rail complete with Bypass
- MBUS Heat Meter
- MBUS Water Meter
- Range of Heating controllers allowing Weather Compensation, Wireless Room stat and Indoor sensors.

Part No.	Description	Price Each
28-SHIU	Single HIU complete with cover and insulation	£ POA
28-SJIG	Single HIU Jig including bypass	£ POA

## TENANT VALVE METERS ASSEMBLY

A combined valve assembly to control and meter water supply to multi-dwelling accommodation such as apartments and office blocks. WRAS approved.

The Assembly comprises of isolating ball valve, water meter (or spacer if required) and combined PRV, double check valve and pressure gauge module.

By combining the PRV and DCV components the Water Meter Assembly (WMA) is much more compact than existing products and by reducing the number of connections dramatically limits the potential leak points on the module.

In addition the WMA can be more easily installed either horizontally or vertically.

Available in 3/4" BSP or 1" BSP female variants each WMA comes with a full insulation jacket as standard (not shown).

Pressure gauge is also included adjustable between 1.5-6.0 bar. Temperature gauge on the isolation valve.



### Water Meters

Part No.	Description	Price Each
28-UHMBUS	Ultrasonic Heat Meter with MBUS	£ POA
28-WMBUS	Watermeter with MBUS	£ POA
28-WMA	Water meter assembly	£ POA
28-WMWRAS	WRAS approved water meter	£ POA

## THERMOSTATIC CONTROL UNITS

ESBE Thermostatic Mixing Valves are licensed for use with washbasins, showers and baths in higher risk and Healthcare applications under the requirements of the NHS Estates D08 specification.

- ESBE thermostatic mixing valves are available in standard format 15mm and 22mm, and VTA353 is available in Combi format.
- Available in T pattern (VTA353) but also L pattern(VTA323)- saving customers 40% installation time.
- Combi versions are supplied complete with 4-in-1 angle inlet connectors incorporating stainless steel mesh strainers, non return valves, 1/4" BSP pressure tapping point and 1/4-turn lever ball valves.



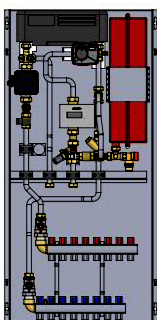
### VTA353

Part No.	Description	Price Each
28-VTA35315	ESS-VTA353 15mm - T Pattern TMV3 without isolators	£ POA
28-VTA35322	ESS-VTA353 22mm - T Pattern TMV3 without isolators	£ POA



### TMV3-VTA353-Combi-022/015

Part No.	Description	Price Each
28/VTA35315C	ESS-VTA353COMBI 15mm - TMV3 combi 4-1 isolators	£ POA
28/VTA22C	ESS353COMBI 22mm - TMV3 combi 4-1 isolators	£ POA



Call for details about our bespoke Underfloor Heating HIUs