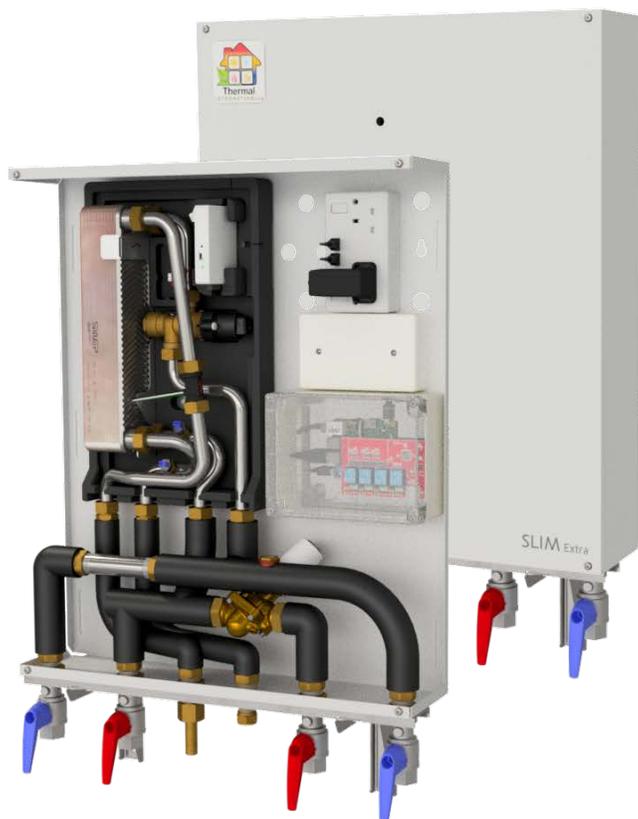


The SLIM Extra - Heat Interface Unit



The SLIM Extra makes use of the latest electronic stepper motor control valves that allow the unit to accurately adjust district flow rates to control DHW temperatures far better than any mechanical system.

The electronic controls also enable the unit to carry out various intelligent functions, such as district return temperature control, Eco / Comfort DHW modes for continuous or intelligent pre-heat, whilst maintaining minimal return temperatures.

As an option the SLIM Extra can be fitted with our Node-HIU server, 4 relay channels (heating, prepay, plus 2 spare), and full flood protection with alarming.

The Node-HIU server provides properties with a standard platform that can operate indefinitely, without contracts, and provides all the necessary data storage and links to services, such as a User interface to control hot water and central heating locally or over the internet, from a mobile phone or computer, System monitoring for reporting on errors or poor efficiency, Remote diagnostics and commissioning and Energy management and load balancing.

Further options include an industry standard pre-plumbing jig for quick and simple mounting, and a heat meter mounted with the secure steel casing, to provide a tamperproof means of energy metering.

The SLIM Extra HIU is based on the SLIM HIU, designed to provide up to 65kW hot water via a plate heat exchanger but with additional pipework and valves to allow direct connection to the apartment heating system.

The central heating system is directly connected to the district heating main, therefore expansion of the heating circuit is provided by the heat network and the unit does not require sealed central heating components or discharge pipework.

The outer casing is an attractive Steel casing, containing the SLIM HIU which itself is compartmentalised in an EPP moulded casing and all pipes are fully insulated. Heat losses are less than 10W.

Within the casing are all the components required for a typical property connected to a district network, these include temperature sensors and a pressure independent control valve for extremely accurate DHW control.

A differential pressure control valve is fitted to the heating circuit with a motorised head for On/Off control via a room thermostat. This also provides a level of flood limitation to reduce the flow to a maximum rate of 1.5 l/min.

Features

- Fully electronic solution with anti-legionella cycle &
- Optional Node-HIU connectivity
- District return temperature control
- Flood limitation or Optional full flood protection with alarming
- Differential pressure control over heating circuit
- Calibrated sensors for fast DHW temperature control
- Eco / Comfort DHW modes for continuous or intelligent pre-heat
- Security fixing kit for casing
- Compact design - 654mm (H) x 552mm (W) x 132mm (D)
- Fully insulated compartmentalised casing
- Ability to connect and communicate with billing systems
- Optional Pre-plumbing jig
- Optional Heat Meter and anti-fraud fitting kit

Capacity (kW)	DHW flow rate (l/m)	Primary Flow °C	Primary Return °C	Required dP primary (kPa)	Primary flow rate (kg/sec)
12.5	4	70	19.5	1.3	0.060
31	10	70	27	20.5	0.178
56	18	70	33.4	72	0.375
12.5	4	80	15.7	2	0.048
31	10	80	22.1	12.5	0.133
65	20.5	80	29.6	55	0.308

Technical parameters:

Nominal pressure: PN 10
 DH supply temperature: T max = 85 °C
 DCW static pressure: P min = 0.5 bar

Pipework: Stainless Steel & Copper

Heat meter: 110 x ¾" – DH Return
DP Valve: Danfoss AB-PM + Motorised head
Electrical Supply: 230V AC (24V DC + Transformer)

Connections

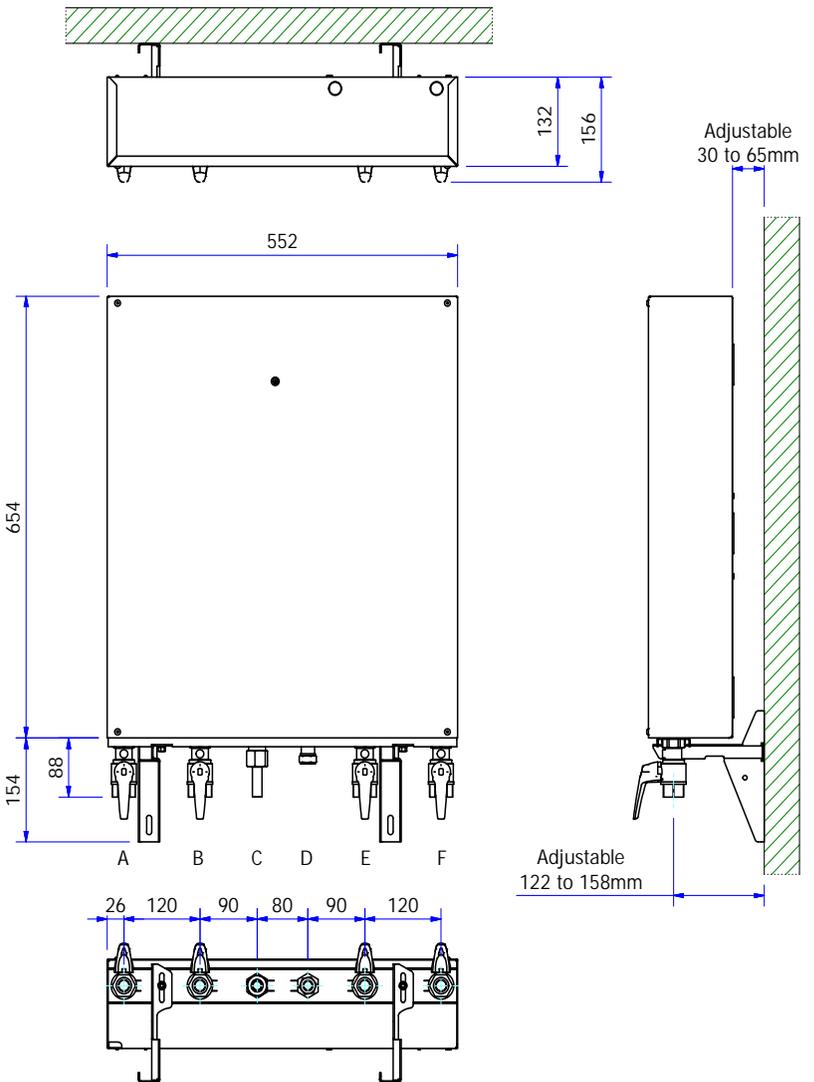
A = Primary Return
 B = Primary Flow
 C = Domestic Cold Water
 D = Domestic Hot Water
 E = HTG Flow
 F = HTG Return

Connection sizes
 A,B,E, & F = G3/4" (Int Thread)
 C & D = 15mm Compression

Notes:

The overall depth from the wall can be reduced to 132mm by mounting the HIU directly to the wall, without using the pre-plumbing jig.

Dimensions and Connections



Options

- Node HIU electronics with flood prevention and alarm
- Pressure sensor for flood alarm
- Casing and heat meter security fittings
- Variety of heat meters
- Pre-plumbing jig

