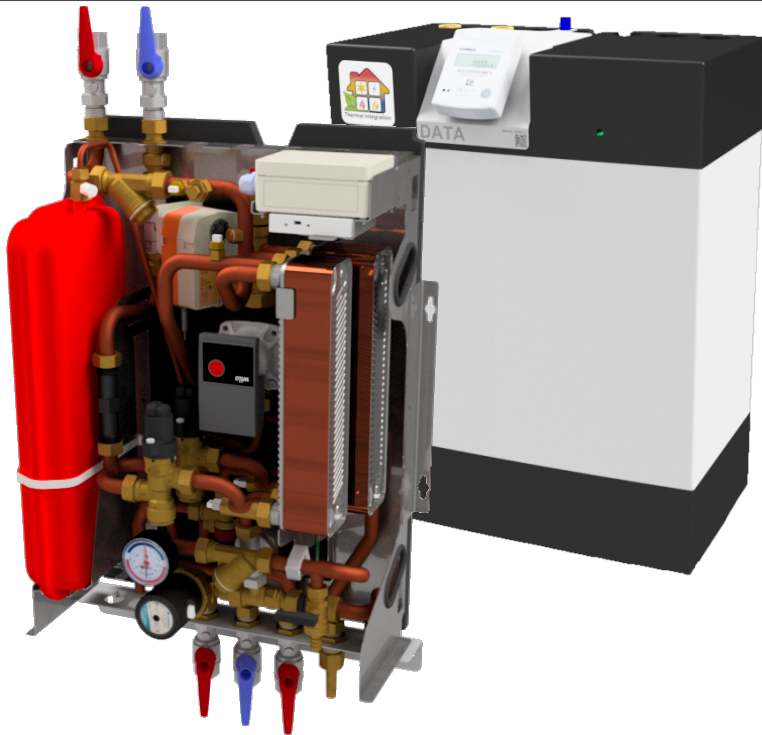


The DATA - Heat Interface Unit



The DATA HIU is suitable for wall hanging in a home or apartment and is designed to provide a range of hot water and central heating outputs using two plate heat exchangers. Within the casing are all controls required for a typical property connected to a district network, including sealed central heating system components with a number of additional options such as hammer arrester, DP valve, and DHW recirculation pump.

The unit can be connected to either a radiator or underfloor heating system and is set-up during commissioning to operate at the desired temperatures.

The DATA is encased in an attractive EPP moulded compartmentalised casing with an optional decorative steel cladding panel. Heat losses are less than 50W, allowing the unit to remain hot for rapid DHW response with minimal drain on the primary supply.

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

The electronic controls also enable the unit to carry out various intelligent functions, such as PC connectivity for set-up and commissioning, district return temperature control, Intelligent Anti-Legionella Cycle, Eco / Comfort DHW keep warm modes for continuous or intelligent pre-heat, whilst maintaining minimal return temperatures.

Possibly the best feature of the DATA, and the one that gives the HIU it's name, is the ability to connect to billing systems and the internet to enable a host of functions never before envisaged.*

These functions include our patented technology for network wide domestic hot water priority, where HIU's can communicate with each other to significantly reduce peak district network loads. They also have the ability to provide remote fault diagnostics, reporting, and remote commissioning.

In summary, the future has arrived!

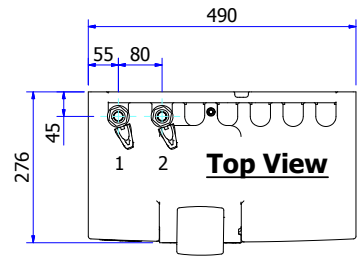
* Connection to billing systems, networked domestic hot water priority and remote diagnostic functions require the optional iHIU electronics package.

Features

- Fully electronic solution with PC connectivity for set-up and commissioning
- Calibrated sensors for fast DHW temperature control
- District return temperature control
- Anti-Legionella Cycle
- Pump Exercise function 60 Sec / 24hrs
- Eco / Comfort DHW modes for continuous or intelligent pre-heat
- Anti-fraud sealing kit for heat meter and casing
- Compact design - 490mm (W) x 640mm (H) x 271mm (D)
- Fully insulated compartmentalised casing
- Ability to connect and communicate with billing systems
- iHIU Intelligent control options to allow networked DHW priority

Example Heating Capacity								
(All examples, heat meter not included)								
Model	Capacity (kW)	Plate heat exchanger	Primary Flow °C	Primary Return °C	Heating Flow °C	Heating Return °C	Required differential pressure primary (kPa)	Primary flow rate (kg/sec)
DATA & DATA Plus	10	36	60	32.8	50	30	6	0.0878
	15	36	60	33.9	50	30	12.6	0.1377
	20	36	60	35	50	30	22	0.1913
	10	36	70	42.5	60	40	5.75	0.0867
	15	36	70	43.5	60	40	12.5	0.1355
	20	36	70	44.5	60	40	21.5	0.1876
	10	36	80	56.5	70	55	7	0.1014
	15	36	80	57.2	70	55	16	0.157
DATA Lite	4	10	60	35.7	50	30	3.44	0.0394
	7	10	60	38.5	50	30	12.36	0.0781
	10	10	60	40.7	50	30	30.03	0.124
	4	10	70	45.2	60	40	3.19	0.0385
	7	10	70	47.8	60	40	11.44	0.0754
	10	10	70	49.9	60	40	27.4	0.1187
	4	10	80	58.4	70	55	4.05	0.0441
	7	10	80	60.2	70	55	14.13	0.0845
	10	10	80	61.8	70	55	32.91	0.1311

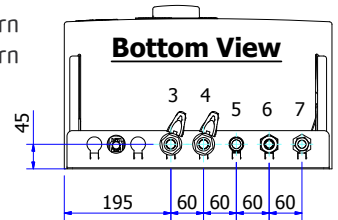
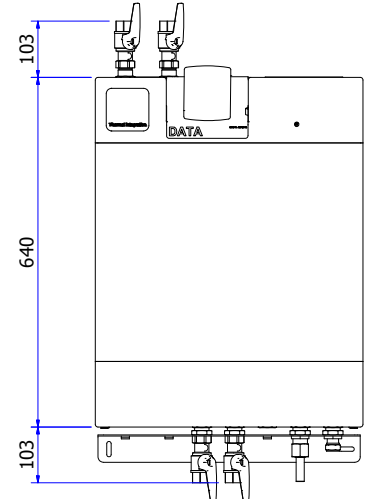
Dimensions and Connections



Connections

- 1 = Primary Flow
- 2 = Primary Return
- 3 = HTG Flow
- 4 = HTG Return
- 5 = DHW Recirculation**
- 6 = Domestic Hot Water
- 7 = Domestic Cold Water

** When Specified



Example DHW Capacity at 10-55°C						
(All examples, heat meter not included)						
Model	Capacity (kW)	DHW flow rate (l/m)	Primary Flow °C	Primary Return °C	Required differential pressure primary (kPa)	Primary flow rate (kg/sec)
DATA & DATA Lite	12.5	4	70	19.5	13	0.060
	31	10	70	27	20.5	0.178
	56	18	70	33.4	22	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
DATA Plus	12.5	4	70	16.5	1	0.057
	31	10	70	22.6	16.6	0.162
	56	18	70	28	58.5	0.327
	65	21	70	29.5	70	0.383
	12.5	4	80	13.4	1.65	0.046
	31	10	80	18.2	10.4	0.124
	62.5	20	80	23.9	41.4	0.273
	81	26	80	26.5	70	0.373

Connection sizes

- 1,2,3,4 & 5 = G3/4" (Internal Thread)
- 6 & 7 = 15mm Compression

Technical parameters:

- Nominal pressure: PN 16
- DH supply temperature: T max = 85 °C
- DCW static pressure: P min = 0.5 bar

Expansion vessel size:

8 ltr

Pipework:

Copper

Heat meter:

110 x 3/4" - DH Return

Security Valve / DP Valve:

110 x 3/4" - DH Return

Electrical Supply:

230V AC

Options

- Top and bottom pre-plumbing jigs
- Landlord security valve
- Casing and heat meter security fittings
- Decorative steel cladding
- Variety of heat meters
- DHW Recirculation
- Water hammer arrestor

