

Baxi AquaHeat HIUs

Instantaneous Hydraulic Interface Units

For homes fed with heat from a heat network, the Baxi AquaHeat HI/HWI (Heating Indirect/Hot Water Indirect) is our market leading answer to your apartments' heating and hot water requirements. The Baxi AquaHeat HD/HWI (Heating Direct/Hot Water Indirect) provides an alternative highly efficient, low cost solution and the Baxi AquaHeat HI (Heating Indirect) is perfectly suited to supply heat to communal and commercial premises in your development.



AquaHeat HI/HWI

(Heating Indirect/Hot Water Indirect)



**FLEXIBLE
HEATING**



**5 YEAR
WARRANTY***



**REMOTE
MONITORING**



**FLEXIBLE
HOT
WATER**



**OPTION
FOR BUILT-IN
HEAT METER**



**BEST PRACTICE
VWATT
FIGURES**

AquaHeat HI

(Heating Indirect)



**FLEXIBLE
HEATING**



**5 YEAR
WARRANTY***



**OPTION
FOR BUILT-IN
HEAT METER**



**REMOTE
MONITORING**

AquaHeat HD/HWI

(Heating Direct/Hot Water Indirect)



**FLEXIBLE
HEATING**



**REMOTE
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**5 YEAR
WARRANTY***



**FLEXIBLE
HOT
WATER**



**OPTION
FOR BUILT-IN
HEAT METER**



**BEST
PRACTICE
HEAT LOSS**

Flexible

- Range of heating outputs from 4kW to 60kW and domestic hot water outputs from 18kW to 57kW
- Suitable for primary temperatures from 55°C to 90°C
- Suitable for primary pressures up to 16 bar g (Indirect) and 6 bar g (Direct)

Easy to install

- Optional first fix rail with in-built filling loop and stand-off bracket to allow for installation with various primary and tertiary pipework orientation
- Pre-wired heat meter and Mercurius remote monitoring module

Efficient

- Ultra-fast acting, fully modulating PICV perfectly matches energy supply to instantaneous demand
- Fine tuned controls coupled with high performance plate heat exchangers provide Best Practice VWART figures as low as 12°C in DHW mode
- High performance insulation providing very low heat losses with the Direct HIU earning BESA Best Practice awards

Remote monitoring and control

- Mercurius platform for remote monitoring of HIUs (Heat Interface Units) giving visibility of errors, supporting remote triage and improving first-time fix rates
- Compatible with Baxi uSense 2 for remote heating control for end-user

Reliable

- HI/HWI model produces DHW flow rates up to 18l/min with a 40K rise, perfect for new builds and refurbishments
- HD/HWI drives enhanced network efficiency combined with strong heat loss performance, ideal for new build developments and low rise apartments
- Keep warm function to deliver rapid hot water delivery, and ultra-sensitive cold water flow sensor ensures DHW operation at 1.2l/min
- WRAS and Reg 4 approval on all models
- Covered with 5 year parts & labour warranty*

*When evidence of commissioning supplied.

Features and functions

Functionality

- Use of PICV and PI-DPCV in combination with PID controller provides rapid reaction and accurate temperature control
- Fully modulating flow control irrespective of primary differential pressures
- PICV and PI-DPCV capable of shutting off the primary flow should there be no demand, a high temperature fault condition (anti-scalds) or power cut
- Option for Comfort, Dynamic or Eco Keep Warm modes to tailor unit performance to the customer's needs. Dynamic mode intelligently maintains the optimal temperature to achieve desired DHW and lowers the temperature in the plate during periods when the appliance is not being used
- Hot water demand is prioritised over other modes of operation – ensures hot water is always available and peak loads are minimized as both heating and hot water cannot run concurrently

Installation and commissioning made easy

- First fix rail including flushing bypass valve and filling loop available as option
- Optional stand-off bracket to facilitate routing primary and secondary pipework behind the HIU (Indirect units only)
- Remote parameter setting via Mercurius platform; adjust DHW and space heating parameters either by individual HIU or collectively per project – saving time on site

Metering and maintenance

- AquaHeat models are supplied with the Axioma Qalcosonic E3 Heat Meter and Mercurius module factory-fit as standard. Dual channel Axioma meter with additional MBUS/WMBUS optional
- The Mercurius module is connected to the energy meter using MBus and the TR-04 integral controller using Modbus
- Mercurius gives real-time monitoring of clients heat interface units:
 - Provides error alerts via email
 - Remote fault diagnostics
 - Targeted direction of engineers with the correct parts to fix the issue
- There is the option for the HIU to be supplied without the Heat Meter (3/4" x 110mm spool piece supplied), giving client freedom of choice – the Mercurius is compatible with the following heat meters:
 - Sharky 775, Sharky 774, Kamstrup 403t4038*



*Other Mbus heat meters are unsupported.

TR-04 Controller

Keep warm modes

- Comfort mode – the appliance always maintains the temperature set point, regardless of whether heat is request or not. This mode ensures the shortest waiting time for DHW
- Dynamic mode – the HIU self learns and maintains the optimal temperature to achieve a desired response time in the most energy efficiency way. If there is not heat demand for 24 hours, the temperature is automatically lowered to 10°C in the plate heat exchanger
- Eco mode – the appliance does not maintain its temperature when the request for heat stops. The waiting time increases with the length of the connection pipe and is therefore perfect for networks with short laterals. In this mode, the waiting time for DHW can be longer

Functionality

- Underfloor heating slab drying programme
- Space heating return temperature limitation
- Timed, cyclic space heating pump activation to prevent pump seizure
- Frost protection function
- Enable/disable keep warm function
- Time and/or temperature based keep warm function
- LED indicator for fault alert
- Automatic control valve closure upon power interruption (anti-scald)

Mercurius HIU control functionality

- Accessed via online portal
- Heating and hot water fault diagnostics
- Radiator or underfloor heating programme
- Start-up menu designed for easy set up and commissioning
- Manual pump override to aid commissioning and service
- Password protected lockable settings
- Fault code alarm



Mercurius

Cloud Based Global HIU Management



Unlock the full potential of your heat network with the BAXI Mercurius. Our online platform provides monitoring, data management and remote servicing across a whole network, from building level down to each individual HIU. Providing CIBSE/HNTAS best practice to ensure network efficiency is maintained across the lifetime of the network.



ONLINE
PLATFORM



REMOTE
COMMUNICATION



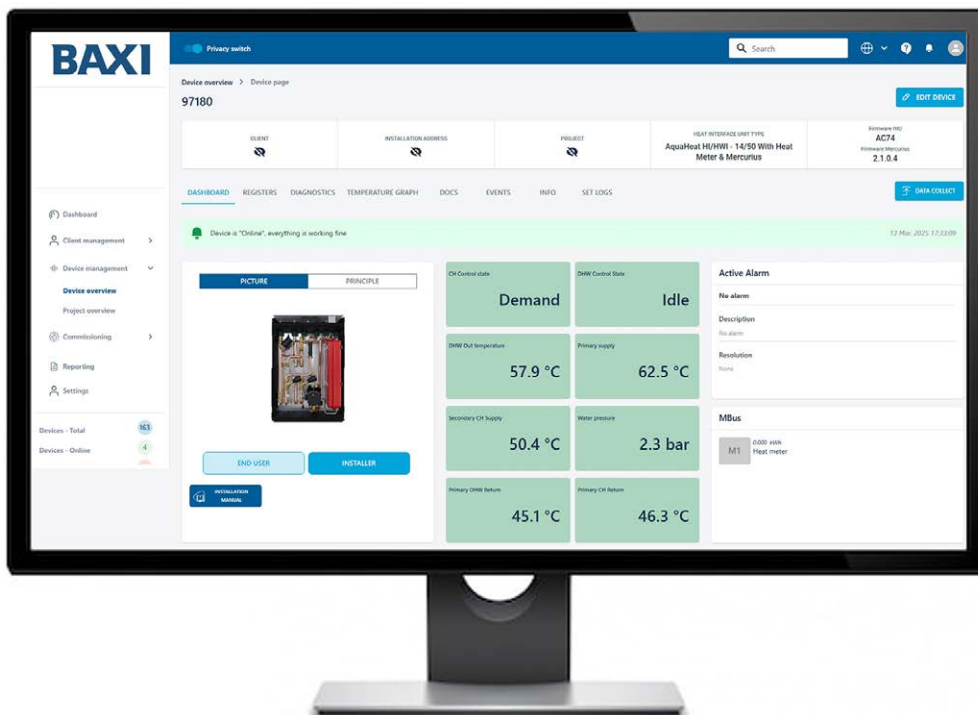
MOBILE
FRIENDLY



REMOTE SERVICE
SUPPORT

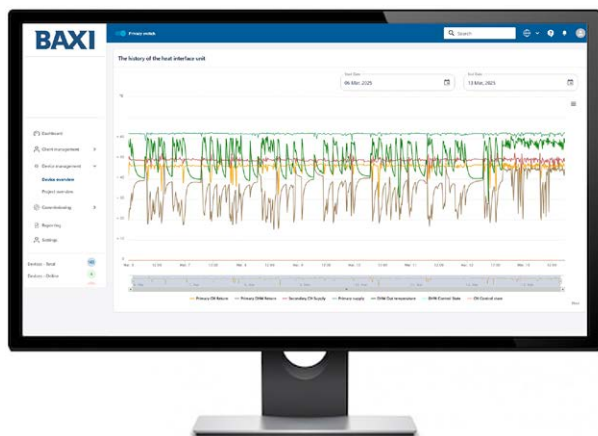


DATA
MANAGEMENT



Mercurius

Cloud Based Global HIU Management



Online Platform

- Mercurius platform for remote monitoring of HIUs (Heat Interface Units) giving visibility of errors, supporting remote triage and improving first-time fix rates
- Live visualisation of HIU operation including return temperatures
- Remote commissioning of HIUs, reducing time on site and enabling heat network performance improvements
- HIU temperature plots to show real time and past temperature performance
- Digital reporting of HIU performance and energy metering
- Cloud hosted for access via PC or mobile

Remote Service Support

- 24/7 real-time monitoring via the Baxi management platform ranging from broad full project/building level down to each individual HIU
- Automated malfunction e-mail service for targeted error notifications
- Remote diagnostic services for online system triaging and hardware component validation through Baxi Customer Support
- Targeted repair services, allowing our nationwide fleet of over 260 Baxi service engineers to arrive on site educated, and with the correct spare parts
- Future proof network with the ability to implement project wide configuration changes

Remote Communication

- Individually mounted SIM cards for direct HIU remote connection
- LTE-M technology for the best coverage and signal penetration
- Utilising a multi-operator network to automatically find and connect to the strongest available network
- 100% wireless, requiring no local wi-fi connection or additional hardware network communications booster

Data Management

- Monitor average temperatures across HIUs, both individually and collectively
- Unlock performance insights into how networks can be improved
- Online system history for interrogating individual HIU's and triaging errors
- Visualise, adjust and report both the measured HIU values and system parameters remotely at any time

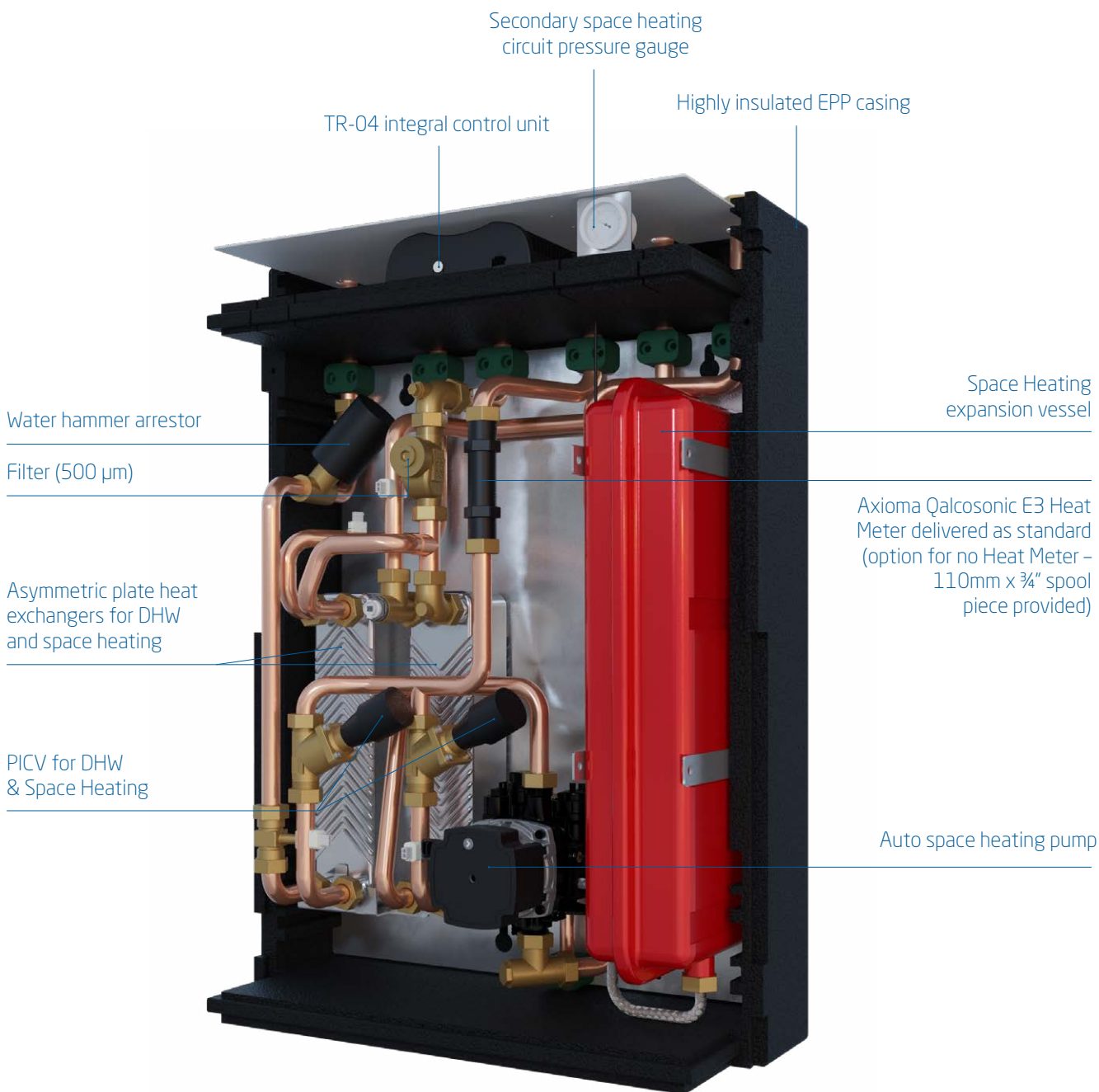
API (External Data Processing)

- We offer a Smart Metering solution capable of directly processing up to 5 different independent meter readings
- Data is stored on the Baxi web platform and can be automatically retrieved via API and processed externally for third-party billing
- The API and HIU are compatible with third party pre-payment solutions

HARDWARE (MERCURIUS COMMUNICATION MODULE)

Connectivity	• LTE-M (Default) • NB - IoT • 2G
Supported Protocols	• Modbus • M-Bus
Power	• Powered directly from HIU unit • No additional wall socket required
Firmware Updates	Remotely
Dimensions (Excl. connectors)	110 x 66 x 28 (W x D x H)

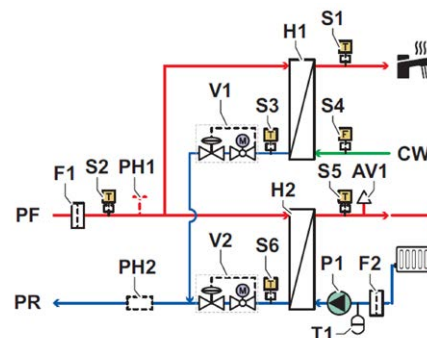
Design features - HI/HWI model



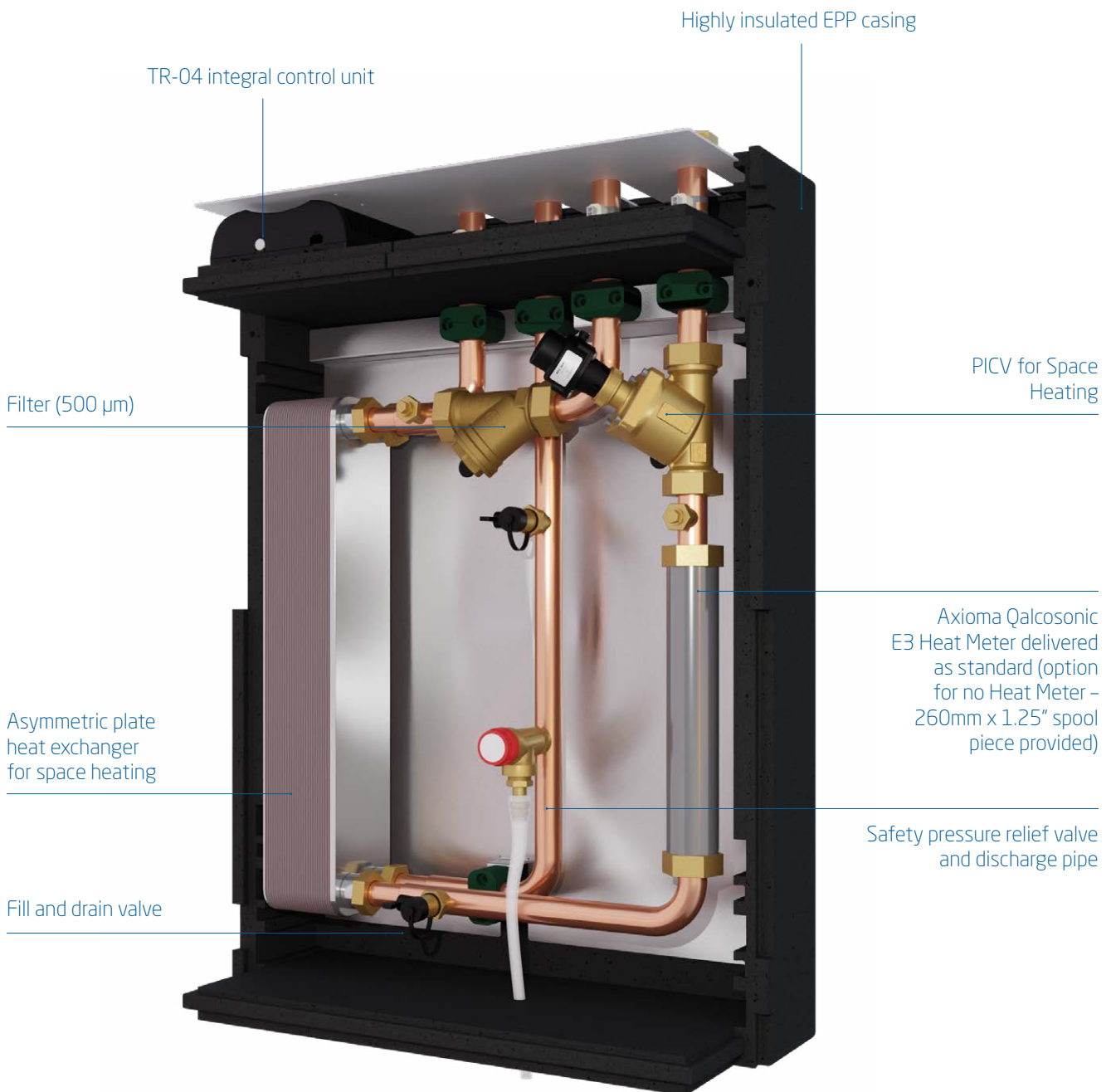
P&ID HI/HWI model

AV1 Deaeration valve
 CW Domestic cold water supply
 F1 Filter
 F2 Filter
 H1 Plate heat exchanger for domestic hot water
 H2 Plate heat exchanger for central heating
 P1 Pump
 PH1 Connection for the thermal energy meter sensor
 PH2 Place holder for the energy meter
 PF Primary system flow

PR Primary system return
 S1 Domestic hot water temperature sensor
 S2 Primary system flow temperature sensor
 S3 Primary system return temperature sensor
 S4 Domestic cold water flow rate sensor
 S5 Central heating flow temperature sensor
 S6 Central heating return temperature sensor
 T1 Expansion vessel
 V1 Domestic hot water control valve (PICV)
 V2 Central heating control valve (PICV)

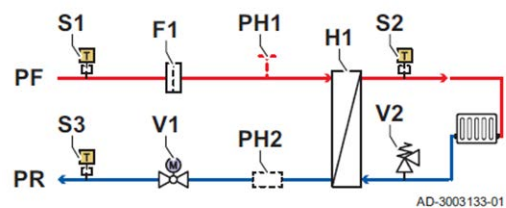


Design features - HI model

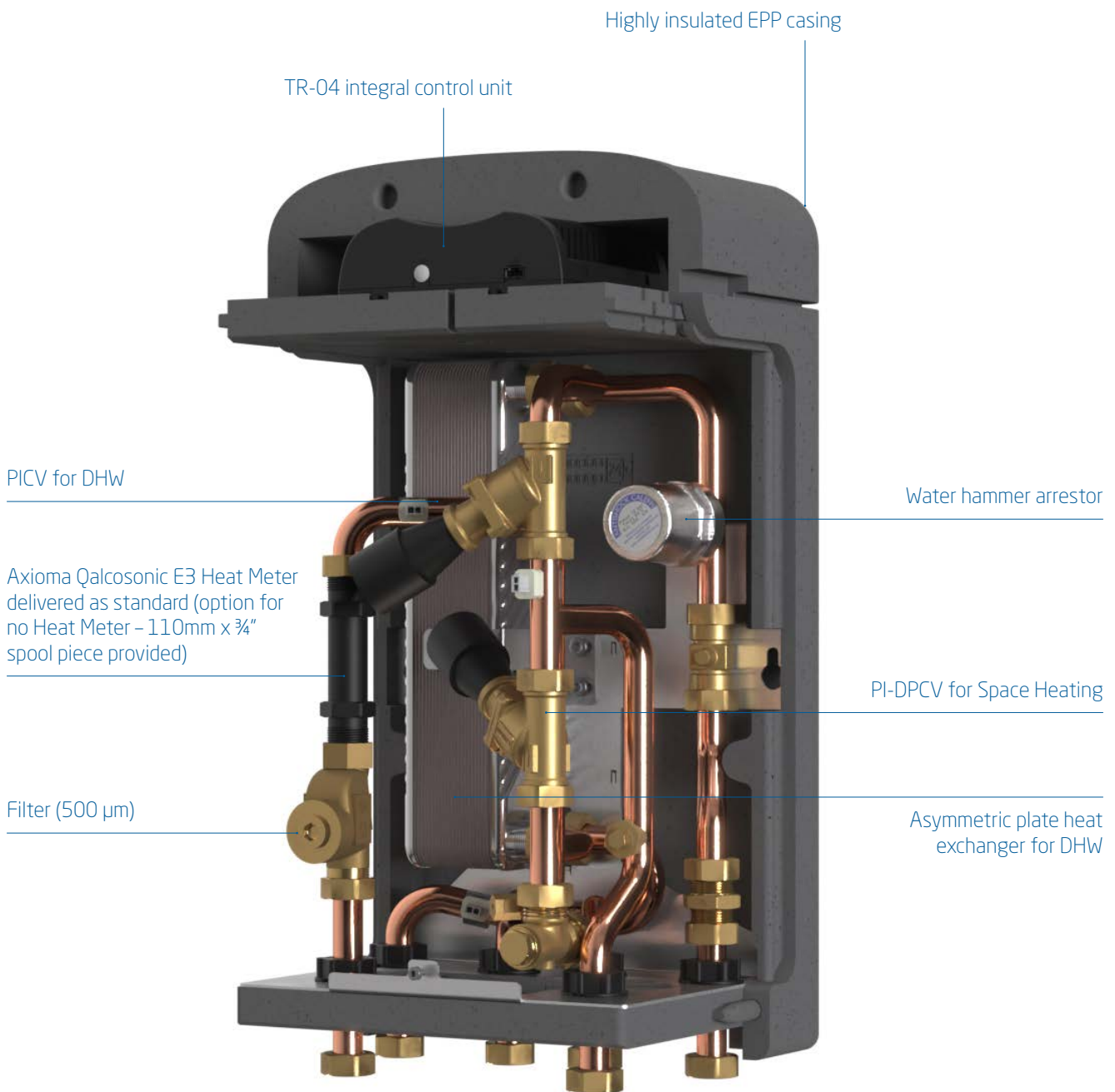


P&ID HI model

- F1 Filter
- H1 Plate heat exchanger
- PH1 Connection for the thermal energy meter sensor
- PH2 Place holder for the energy meter
- PF Primary system flow
- PR Primary system return
- S1 Primary system flow temperature sensor
- S2 Central heating flow temperature sensor
- S3 Primary system return temperature sensor
- V1 Central heating modulation valve (pressure compensated)
- V2 Safety pressure relief valve

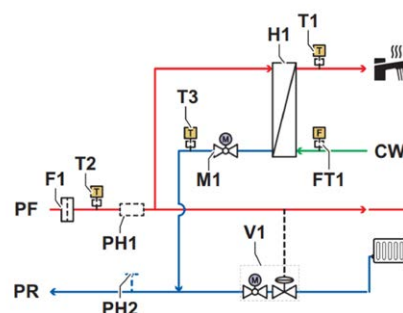


Design features - HD/HWI model



P&ID HD/HWI model

- CW Domestic cold water supply
- PF Primary system flow
- PR Primary system return
- F1 Filter
- FT1 Flow rate sensor
- H1 Plate heat exchanger for domestic hot water
- M1 Domestic hot water control valve (PICV)
- PH1 Thermal energy meter (Only on models with thermal energy meter)
- PH2 Thermal energy meter sensor (Only on models with thermal energy meter)
- T1 Domestic hot water temperature sensor
- T2 Primary system flow temperature sensor
- T3 Primary system return temperature sensor
- V1 Central heating control valve (PI-DPCV)



Technical details

	UNITS	HI/HWI 4/50 Heat Meter & Mercurius	HI/HWI 4/50	HI/HWI 14/50 Heat Meter & Mercurius	HI/HWI 14/50	HI - 50 Heat Meter & Mercurius	HI - 50	HD/HWI 12/50 Heat Meter & Mercurius	HD/HWI 12/50
Product code		7867470	7867472	7867476	7867477	7867474	7867475	7892284	7892283
WEIGHTS									
Net Weight (dry)	kg	27	26.5	27	26.7	30	30	10.5	10.2
Net Weight (wet)	kg	27.5	27	27.5	27.2	31.5	31.5	10.8	10.5
Gross weight (packed)	kg	27	26.5	27	26.7	30	30	10.5	10.2
PRIMARY SIDE									
Max operating pressure	bar	16	16	16	16	16	16	6	6
Max operating temperature	°C	90	90	90	90	90	90	90	90
Maximum primary flow rate (DHW mode) (55 primary/50 DHW)	m³/hr	0.9	0.9	0.9	0.9	-	-	0.9	0.9
Maximum primary flow rate (space heating mode) (55 primary/45/35 CH)	m³/hr	0.26	0.26	0.6	0.6	3	3	0.5	0.5
Maximum primary pressure differential	kPa	600	600	600	600	600	600	600	600
Min primary pressure drop req. at Maximum primary flow rate (DHW Mode)	kPa	16	16	16	16	-	-	16	16
SPACE HEATING HYDRAULICS									
Max operating pressure	bar	3	3	3	3	3	3	6	6
Max operating temperature	°C	85	85	85	85	85	85	90	90
Safety relief valve setting	bar	3	3	3	3	3	3	-	-
Heating temperature setpoint (min-max)	°C	15/85	15/85	15/85	15/85	15/85	15/85	15/90	15/90
Heating temperature setpoint (default)	°C	45	45	45	45	45	45	55	55
Heating nominal pump head	kPa	70	70	70	70	-	-	-	-
DHW HYDRAULICS									
Max operating pressure	bar	10	10	10	10	-	-	10	10
Min cold water supply pressure	bar	1	1	1	1	-	-	1	1
Hot water temperature setpoint (min-max)	°C	40 / 65	40 / 65	40 / 65	40 / 65	-	-	40/65	40/65
Hot water temperature setpoint (min-max)	°C	50	50	50	50	-	-	50	50

For a full range of accessories available visit baxi.co.uk/aquaheat-hiu

Technical details

	UNITS	HI/HWI 4/50 Heat Meter & Mercurius	HI/HWI 4/50	HI/HWI 14/50 Heat Meter & Mercurius	HI/HWI 14/50	HI - 50 Heat Meter & Mercurius	HI - 50	HD/HWI 12/50 Heat Meter & Mercurius	HD/HWI 12/50
ELECTRICAL									
Power supply	Volts/Hz	230/50	230/50	230/50	230/50	230/50	230/50	230/50	230/50
Permanent live required		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Power consumption (max. space heating output)	Watts	65	65	65	65	12	12	65	65
Power consumption (standby)	Watts	3	3	3	3	3	3	3	3
Power consumption (max. space heating output, with Mercurius)	Watts	75	75	75	75	22	22	75	75
Power consumption (standby, with Mercurius)	Watts	13	13	13	13	13	13	13	13
Minimum external fuse rating	Amps	5	5	5	5	5	5	5	5
Internal fuse rating	Amps	5	5	5	5	5	5	5	5
CONNECTION TYPES / SIZES									
Primary network flow		3/4" ISO G 228 male		3/4" ISO G 228 male		1" female		3/4" ISO G 228 male	
Primary network return		3/4" ISO G 228 male		3/4" ISO G 228 male		1" female		3/4" ISO G 228 male	
Space Heating flow		3/4" ISO G 228 male		3/4" ISO G 228 male		1" female		3/4" ISO G 228 male	
Space Heating return		3/4" ISO G 228 male		3/4" ISO G 228 male		1" female		3/4" ISO G 228 male	
Cold water feed		3/4" ISO G 228 male		3/4" ISO G 228 male		1" female		3/4" ISO G 228 male	
Domestic hot water flow		3/4" ISO G 228 male		3/4" ISO G 228 male		1" female		3/4" ISO G 228 male	
Space Heating safety valve discharge	mm	15		15		12 (discharge pipe)			
	PRODUCT	HI/HWI 4/50 Heat Meter & Mercurius	HI/HWI 4/50	HI/HWI 14/50 Heat Meter & Mercurius	HI/HWI 14/50	HI - 50 Heat Meter & Mercurius	HI - 50	HD/HWI 12/50 Heat Meter & Mercurius	HD/HWI 12/50
ACCESSORIES									
First Fix Rail with flushing by-pass HD/HWI series	7898304	No	No	No	No	-	-	Yes	Yes
Mercurius	7867481	No	Yes	No	Yes	-	-	No	Yes
First Fix Rail inc. flushing bypass & filling loop HI/HWI Series	7867480	Yes	Yes	Yes	Yes	-	-	No	No
First Fix Rail inc. flushing bypass & filling loop for use with stand-off bracket HI/HWI Series	7867485	Yes	Yes	Yes	Yes	-	-	No	No
Stand-off frame	7867482	Yes	Yes	Yes	Yes	-	-	No	No
Secondary L-pipes for use with stand-off frame	7867483	Yes	Yes	Yes	Yes	-	-	No	No
Primary L-pipes for use with Stand-off frame	7867484	Yes	Yes	Yes	Yes	-	-	No	No

For a full range of accessories available visit baxi.co.uk/aquaheat-hiu

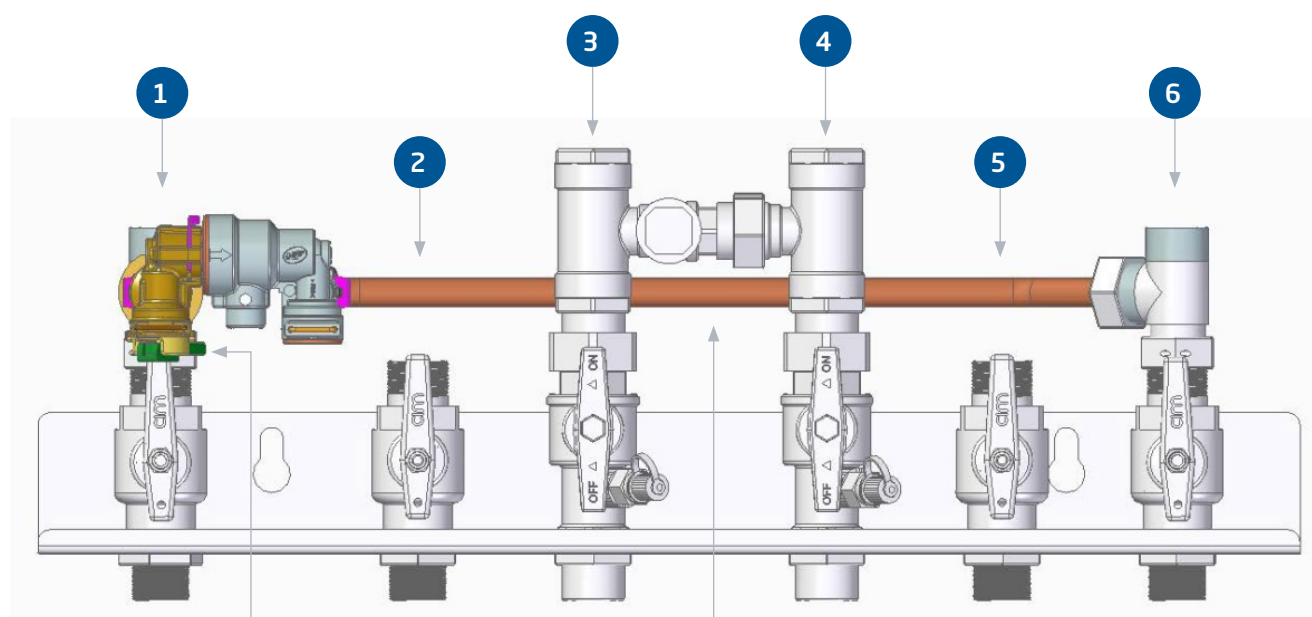
Baxi AquaHeat HI / HWI

First fix installation kits

The Baxi AquaHeat HI/HWI twin plate models can be supplied with an optional first fix rail and/or stand-off kit for ease of installation. The rail allows the installer to connect and test the pipework to and from the heat interface unit (HIU) without the need to have the HIU on site.

First fix rail (7867480)

The first fix rail is available in a standard configuration with a flushing bypass, pressure testing plugs on primary feed/return and filling loop fit (as below):



Baxi EasyFill filling loop

Flushing bypass valve

Item	Connection	Connection Type
1	Domestic cold water inlet	G ¾" male
2	Domestic hot water	G ¾" male
3	Heat Network flow	G ¾" male
4	Heat Network return	G ¾" male
5	Space heating (tertiary) flow	G ¾" male
6	Space heating (tertiary) return	G ¾" male

For a full range of accessories available visit baxi.co.uk/aquaheat-hiu

Baxi "EasyFill" filling loop



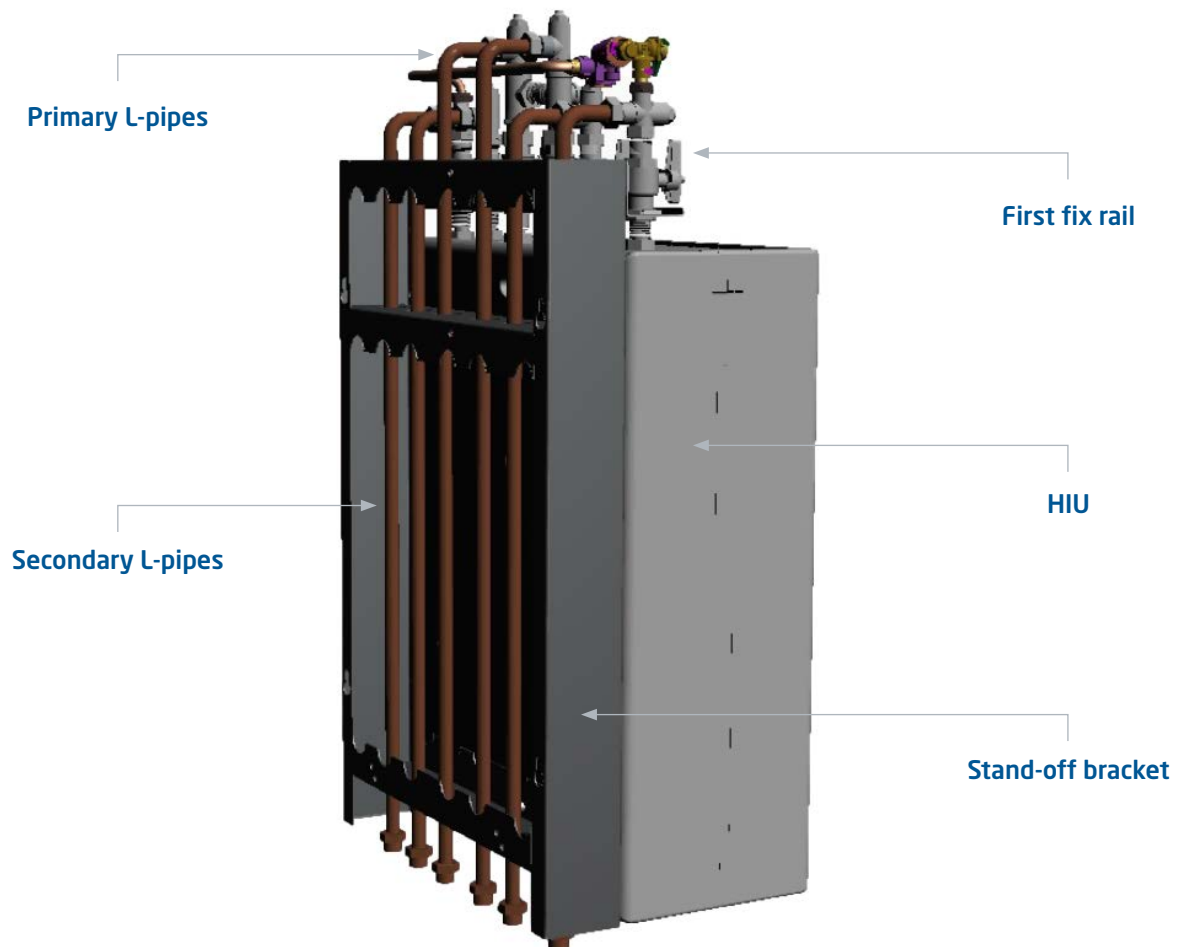
The EasyFill filling loop is supplied, pre-plumbed to the first fix rail. Easy to use spring-loaded lever for topping up central heating pressure quickly and easily. With this permanent filling link supplied, it is not necessary to remove any part of it after filling or re-pressuring; a check valve is in place to manage backflow prevention.

Flushing bypass valve

The flushing bypass valve is supplied, pre-plumbed to the first fix rail. The first fix rail is supplied with the flushing bypass valve installed between the district heating flow and return pipes. The flushing bypass valve is an isolation valve which allows the distribution network to be flushed free of debris during the installation and commissioning process.

Stand-off bracket (7867482)

The stand-off bracket can be used in conjunction with a specific first fix rail (7867485) for installations where it is necessary to route pipework behind the HIU. This can be supplied with both primary (7867484) and secondary (7867483) L-pipes which connect to the first fix rail ball valves and terminate at the bottom of the HIU.



For a full range of accessories available visit baxi.co.uk/aquaheat-hiu

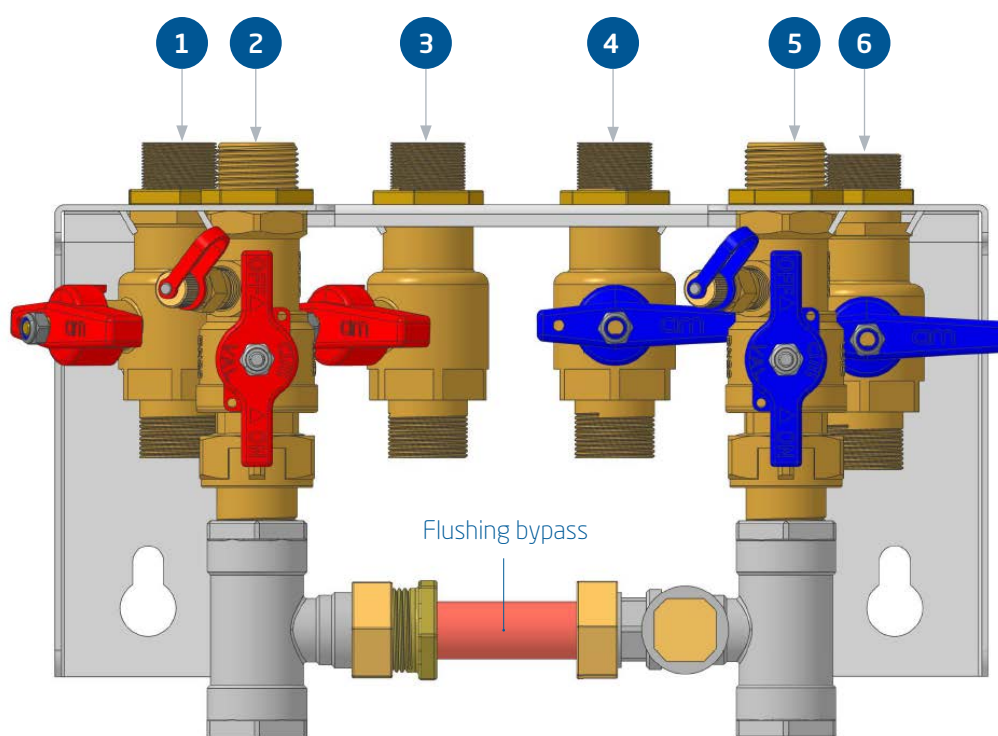
Baxi AquaHeat HD / HWI

First fix installation kits

The Baxi AquaHeat HD/HWI model can be supplied with an optional first fix rail for ease of installation. The rail allows the installer to connect and test the pipework to and from the HIU without the need to have the HIU on site.

First fix rail (7898304)

The first fix rail is available in a standard configuration with a flushing bypass (as below):



Item	Connection	Connection Type
1	Domestic Hot Water	G ¾" male
2	Heat Network Flow	G ¾" male
3	Central Heating Flow	G ¾" male
4	Central Heating Return	G ¾" male
5	Heat Network Return	G ¾" male
6	Domestic Cold Water Inlet	G ¾" male

For a full range of accessories available visit baxi.co.uk/aquaheat-hiu

BESA performance (Test summary)

	UNITS	HI/HWI 4/50	HI/HWI 14/50	HD/HWI 12/50
70°C PRIMARY FLOW TEMP				
DHW VwART	°C	12	12	12
Standby VwART	°C	38.8	38.8	40
Space Heating VwART	°C	35.5	35.2	36
Summer VwART	°C	22.8	22.9	25
Winter VwART	°C	29.3	28.5	30
Overall VwART	°C	26.1	25.7	27
Overall energy loss per day	kWh	0.95	0.95	0.61
55°C PRIMARY FLOW TEMP				
DHW VwART	°C	17.3	17.3	18
Standby VwART	°C	39.1	39.1	43
Space Heating VwART	°C	34.8	34.8	35
Summer VwART	°C	28.3	28.3	32
Winter VwART	°C	31.5	31.5	33
Overall VwART	°C	29.9	29.9	32
Overall energy loss per day	kWh	0.91	0.91	0.69

*Bold values achieved BESA "Best Practice" Pass mark

For a full range of accessories available visit baxi.co.uk/aquaheat-hiu

DHW performance

HI/HWI and HD/HWI models

	UNITS	PRIMARY LOW TEMPERATURES AND DHW OUTPUT TEMPERATURES							
10°C - 50°C (55°C PRIMARY)									
Primary flow rate	m³/hr	0.42	0.54	0.67	0.80	0.94	1.07	1.22	1.36
Primary flow temp.	°C	55	55	55	55	55	55	55	55
Primary return temp.	°C	17.39	18.6	19.46	20.24	20.95	21.61	22.23	22.82
DHW power rating	kW	18.57	23.21	27.86	32.5	37.14	41.79	46.43	51.07
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33
10°C - 50°C (60°C PRIMARY)									
Primary flow rate	m³/hr	0.35	0.44	0.54	0.64	0.74	0.84	0.95	1.06
Primary flow temp.	°C	60	60	60	60	60	60	60	60
Primary return temp.	°C	13.88	14.94	15.61	16.22	16.79	17.32	17.82	18.30
DHW power rating	kW	18.57	23.21	27.86	32.50	37.14	41.79	46.43	51.07
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33
10°C - 55°C (60°C PRIMARY)									
Primary flow rate	m³/hr	0.4	0.6	0.7	0.8	1.0	1.1	1.3	1.4
Primary flow temp.	°C	60	60	60	60	60	60	60	60
Primary return temp.	°C	18.86	20.09	21.07	21.95	22.76	23.51	24.21	24.86
DHW power rating	kW	20.89	26.11	31.34	36.56	41.78	47.01	52.23	57.45
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33
10°C - 50°C (65°C PRIMARY)									
Primary flow rate	m³/hr	0.30	0.38	0.47	0.55	0.63	0.72	0.81	0.89
Primary flow temp.	°C	65	65	65	65	65	65	65	65
Primary return temp.	°C	12.24	13.00	13.63	14.11	14.56	15.00	15.41	15.81
DHW power rating	kW	18.57	23.21	27.86	32.50	37.14	41.79	46.43	51.07
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33
10°C - 55°C (65°C PRIMARY)									
Primary flow rate	m³/hr	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1
Primary flow temp.	°C	65	65	65	65	65	65	65	65
Primary return temp.	°C	14.86	15.99	16.75	17.45	18.10	18.71	19.29	19.84
DHW power rating	kW	20.89	26.11	31.34	36.56	41.78	47.01	52.23	57.45
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33
10°C - 50°C (70°C PRIMARY)									
Primary flow rate	m³/hr	0.3	0.3	0.4	0.5	0.6	0.6	0.7	0.8
Primary flow temp.	°C	70	70	70	70	70	70	70	70
Primary return temp.	°C	11.34	11.90	12.43	12.82	13.19	13.54	13.89	14.22
DHW power rating	kW	18.57	23.21	27.86	32.50	37.14	41.79	46.43	51.07
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33

For a full range of accessories available visit baxi.co.uk/aquaheat-hiu

DHW performance

HI/HWI and HD/HWI models

	UNITS	PRIMARY LOW TEMPERATURES AND DHW OUTPUT TEMPERATURES							
10°C - 55°C (70°C PRIMARY)									
Primary flow rate	m³/hr	0.3	0.4	0.5	0.6	0.7	0.8	0.8	0.9
Primary flow temp.	°C	70	70	70	70	70	70	70	70
Primary return temp.	°C	12.92	13.84	14.48	15.04	15.57	16.08	16.56	17.02
DHW power rating	kW	20.89	26.11	31.34	36.56	41.78	47.01	52.23	57.45
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33
10°C - 50°C (75°C PRIMARY)									
Primary flow rate	m³/hr	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7
Primary flow temp.	°C	75	75	75	75	75	75	75	75
Primary return temp.	°C	10.82	11.23	11.63	11.98	12.28	12.56	12.85	13.13
DHW power rating	kW	18.57	23.21	27.86	32.50	37.14	41.79	46.43	51.07
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33
10°C - 55°C (75°C PRIMARY)									
Primary flow rate	m³/hr	0.3	0.4	0.4	0.5	0.6	0.7	0.7	0.8
Primary flow temp.	°C	75	75	75	75	75	75	75	75
Primary return temp.	°C	11.82	12.52	13.08	13.54	13.98	14.40	14.80	15.20
DHW power rating	kW	20.89	26.11	31.34	36.56	41.78	47.01	52.23	57.45
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33
10°C - 50°C (80°C PRIMARY)									
Primary flow rate	m³/hr	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.7
Primary flow temp.	°C	80	80	80	80	80	80	80	80
Primary return temp.	°C	10.51	10.81	11.11	11.41	11.65	11.89	12.12	12.35
DHW power rating	kW	18.57	23.21	27.86	32.50	37.14	41.79	46.43	51.07
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33
10°C - 55°C (80°C PRIMARY)									
Primary flow rate	m³/hr	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.7
Primary flow temp.	°C	80	80	80	80	80	80	80	80
Primary return temp.	°C	11.16	11.68	12.17	12.54	12.90	13.25	13.59	13.92
DHW power rating	kW	20.89	26.11	31.34	36.56	41.78	47.01	52.23	57.45
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33
10°C - 50°C (85°C PRIMARY)									
Primary flow rate	m³/hr	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6
Primary flow temp.	°C	85	85	85	85	85	85	85	85
Primary return temp.	°C	10.32	10.54	10.77	11.02	11.21	11.40	11.59	11.79
DHW power rating	kW	18.57	23.21	27.86	32.50	37.14	41.79	46.43	51.07
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33

For a full range of accessories available visit baxi.co.uk/aquaheat-hiu

DHW performance

HI/HWI and HD/HWI models

	UNITS	PRIMARY LOW TEMPERATURES AND DHW OUTPUT TEMPERATURES							
10°C - 55°C (85°C PRIMARY)									
Primary flow rate	m³/hr	0.2	0.3	0.4	0.4	0.5	0.6	0.6	0.7
Primary flow temp.	°C	85	85	85	85	85	85	85	85
Primary return temp.	°C	10.75	11.14	11.54	11.85	12.14	12.44	12.72	13.00
DHW power rating	kW	20.89	26.11	31.34	36.56	41.78	47.01	52.23	57.45
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33
10°C - 50°C (90°C PRIMARY)									
Primary flow rate	m³/hr	0.2	0.3	0.3	0.4	0.4	0.5	0.5	0.6
Primary flow temp.	°C	90	90	90	90	90	90	90	90
Primary return temp.	°C	10.21	10.36	10.54	10.73	10.89	11.04	11.21	11.37
DHW power rating	kW	18.57	23.21	27.86	32.50	37.14	41.79	46.43	51.07
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33
10°C - 55°C (90°C PRIMARY)									
Primary flow rate	m³/hr	0.2	0.3	0.3	0.4	0.5	0.5	0.6	0.6
Primary flow temp.	°C	90	90	90	90	90	90	90	90
Primary return temp.	°C	10.49	10.78	11.09	11.36	11.60	11.84	12.08	12.32
DHW power rating	kW	20.89	26.11	31.34	36.56	41.78	47.01	52.23	57.45
DHW flow rate	l/min	6.67	8.33	10.00	11.67	13.33	15.00	16.67	18.33

For a full range of accessories available visit baxi.co.uk/aquaheat-hiu

Space Heating performance

Baxi AquaHeat HI/HWI 4/50

7867470 / 7867472

	UNITS	PRIMARY LOW TEMPERATURES AND SPACE HEATING OUTPUT TEMPERATURES				
45°C FLOW AT 55°C PRIMARY						
Primary flow rate	m³/hr	0.04	0.09	0.13	-	-
Primary flow temp.	°C	55	55	55	-	-
Primary return temp	°C	35.14	35.39	35.63	-	-
Space Heating power	kW	1.0	2.0	3.0	-	-
Secondary flow rate	l/min	1.44	2.87	4.31	-	-
55°C FLOW AT 60°C PRIMARY						
Primary flow rate	m³/hr	0.04	0.08	0.12	-	-
Primary flow temp.	°C	60	60	60	-	-
Primary return temp.	°C	36.39	37.84	38.75	-	-
Space Heating power	kW	1.0	2.0	3.0	-	-
Secondary flow rate	l/min	0.72	1.44	2.15	-	-
55°C FLOW AT 65°C PRIMARY						
Primary flow rate	m³/hr	0.03	0.06	0.09	0.12	-
Primary flow temp.	°C	65	65	65	65	-
Primary return temp.	°C	35.40	36.16	36.69	37.18	-
Space Heating power	kW	1.0	2.0	3.0	4.0	-
Secondary flow rate	l/min	0.72	1.44	2.15	2.87	-
55°C FLOW AT 70°C PRIMARY						
Primary flow rate	m³/hr	0.02	0.05	0.08	0.10	0.13
Primary flow temp.	°C	70	70	70	70	70
Primary return temp.	°C	35.13	35.50	35.85	36.16	36.48
Space Heating power	kW	1.0	2.0	3.0	4.0	0.5
Secondary flow rate	l/min	0.72	1.44	2.15	2.87	3.59

For a full range of accessories available visit baxi.co.uk/aquaheat-hiu

Space Heating performance

Baxi AquaHeat HI/HWI 14/50

7867476 / 7867477

	UNITS	PRIMARY LOW TEMPERATURES AND SPACE HEATING OUTPUT TEMPERATURES					
45°C SECONDARY FLOW AT 55°C PRIMARY							
Primary flow rate	m³/hr	0.09	0.17	0.26	-	-	-
Primary flow temp.	°C	55	55	55	-	-	-
Primary return temp.	°C	35.07	35.23	35.39	-	-	-
Space Heating power	kW	2.0	4.0	6.0	-	-	-
Secondary flow rate	l/min	2.87	5.74	8.62	-	-	-
55°C SECONDARY FLOW AT 60°C PRIMARY							
Primary flow rate	m³/hr	0.07	0.15	0.23	0.32	-	-
Primary flow temp.	°C	60	60	60	60	-	-
Primary return temp.	°C	35.96	37.11	37.83	38.45	-	-
Space Heating power	kW	2.0	4.0	6.0	8.0	-	-
Secondary flow rate	l/min	1.44	2.87	4.31	5.74	-	-
55°C SECONDARY FLOW AT 65°C PRIMARY							
Primary flow rate	m³/hr	0.06	0.12	0.18	0.24	0.31	-
Primary flow temp.	°C	65	65	65	65	65	-
Primary return temp.	°C	35.23	35.75	36.15	36.52	36.87	-
Space Heating power	kW	2.0	4.0	6.0	8.0	10.0	-
Secondary flow rate	l/min	1.44	2.87	4.31	5.74	7.18	-
55°C SECONDARY FLOW AT 70°C PRIMARY							
Primary flow rate	m³/hr	0.05	0.10	0.15	0.20	0.25	0.31
Primary flow temp.	°C	70	70	70	70	70	70
Primary return temp.	°C	35.06	35.29	35.52	35.74	35.97	36.18
Space Heating power	kW	2.0	4.0	6.0	8.0	10.0	12.0
Secondary flow rate	l/min	1.44	2.87	4.31	5.74	7.18	8.61

Baxi AquaHeat HD/HWI 12/50

7892284 / 7892283

Space heating output up to 18.3 kW when operating at the maximum flow rate of 786 lph, dependent on space heating circuit design.

For a full range of accessories available visit baxi.co.uk/aquaheat-hiu

Space Heating performance

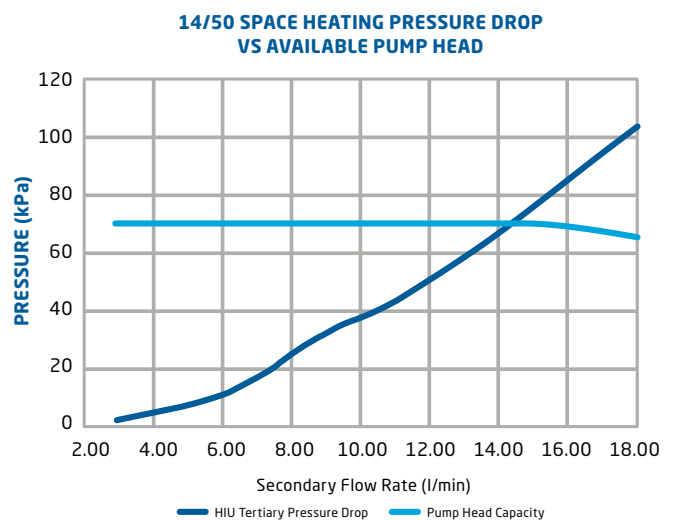
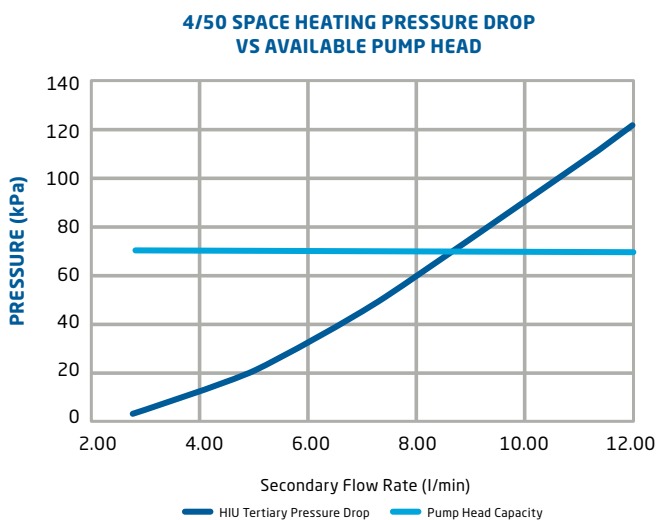
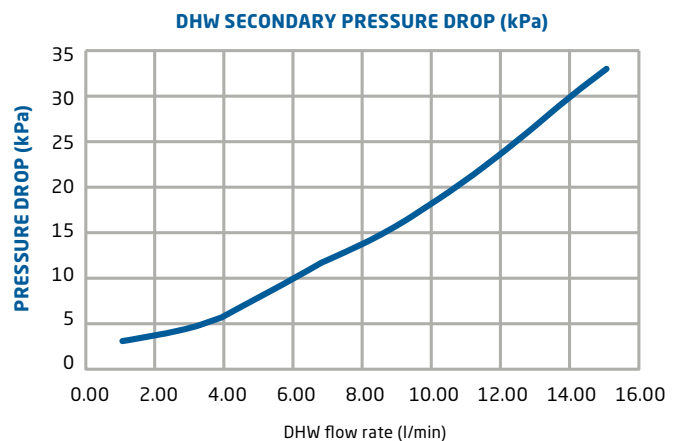
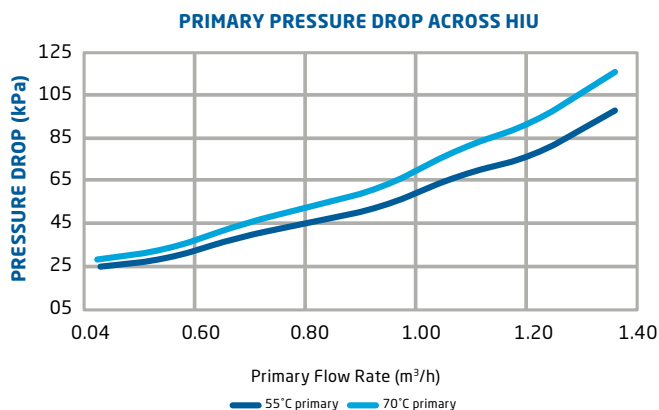
Baxi AquaHeat HI - 50

7867474 / 7867475

	UNITS	PRIMARY LOW TEMPERATURES AND SPACE HEATING OUTPUT TEMPERATURES					
50°C SECONDARY FLOW AT 55°C PRIMARY							
Primary flow rate	m³/hr	0.83	1.05	1.41	1.78	2.17	-
Primary flow temp.	°C	55	55	55	55	55	-
Primary return temp.	°C	30.00	30.30	30.60	30.80	31.20	-
Space Heating power	kW	24.0	30.0	40.0	50.0	60.0	-
Secondary flow rate	l/min	17.59	21.99	29.32	36.64	43.97	-

Pressure drop data

HI/HWI models



For a full range of accessories available visit baxi.co.uk/aquaheat-hiu

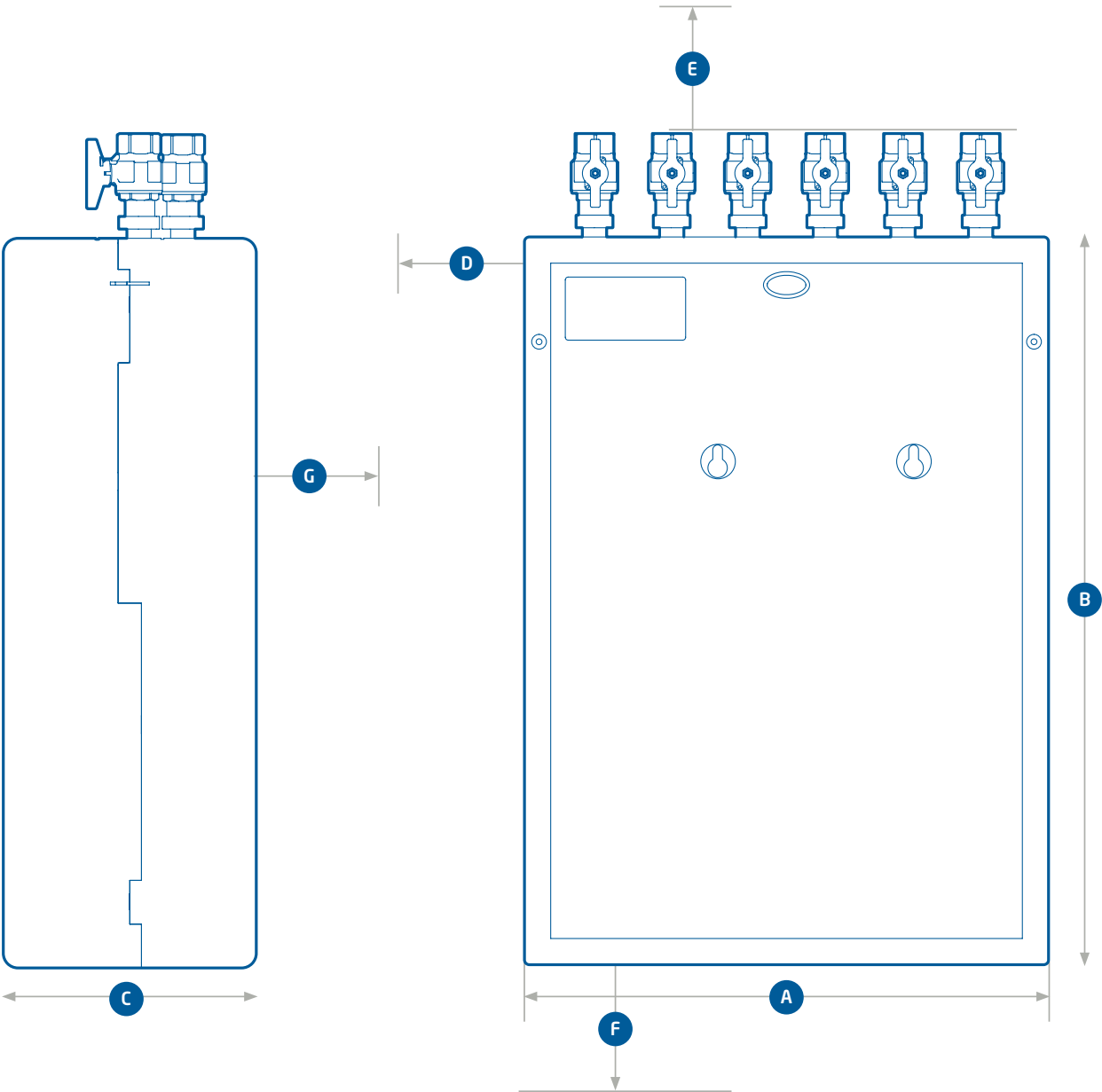
AquaHeat HI/HWI

INSIDE THE AQUAHEAT HI/HWI

DIMENSIONS AND SERVICE CLEARANCES

A HIU width	540mm
B HIU height	750mm
C HIU depth	260mm
D Side clearance	30mm
E Upper clearance	100mm
F Lower clearance	30mm
G Front clearance (in operation)	200mm

Service clearances shown here are the minimum recommended dimensions. Greater clearance will aid installation and maintenance.



Valves supplied separately.

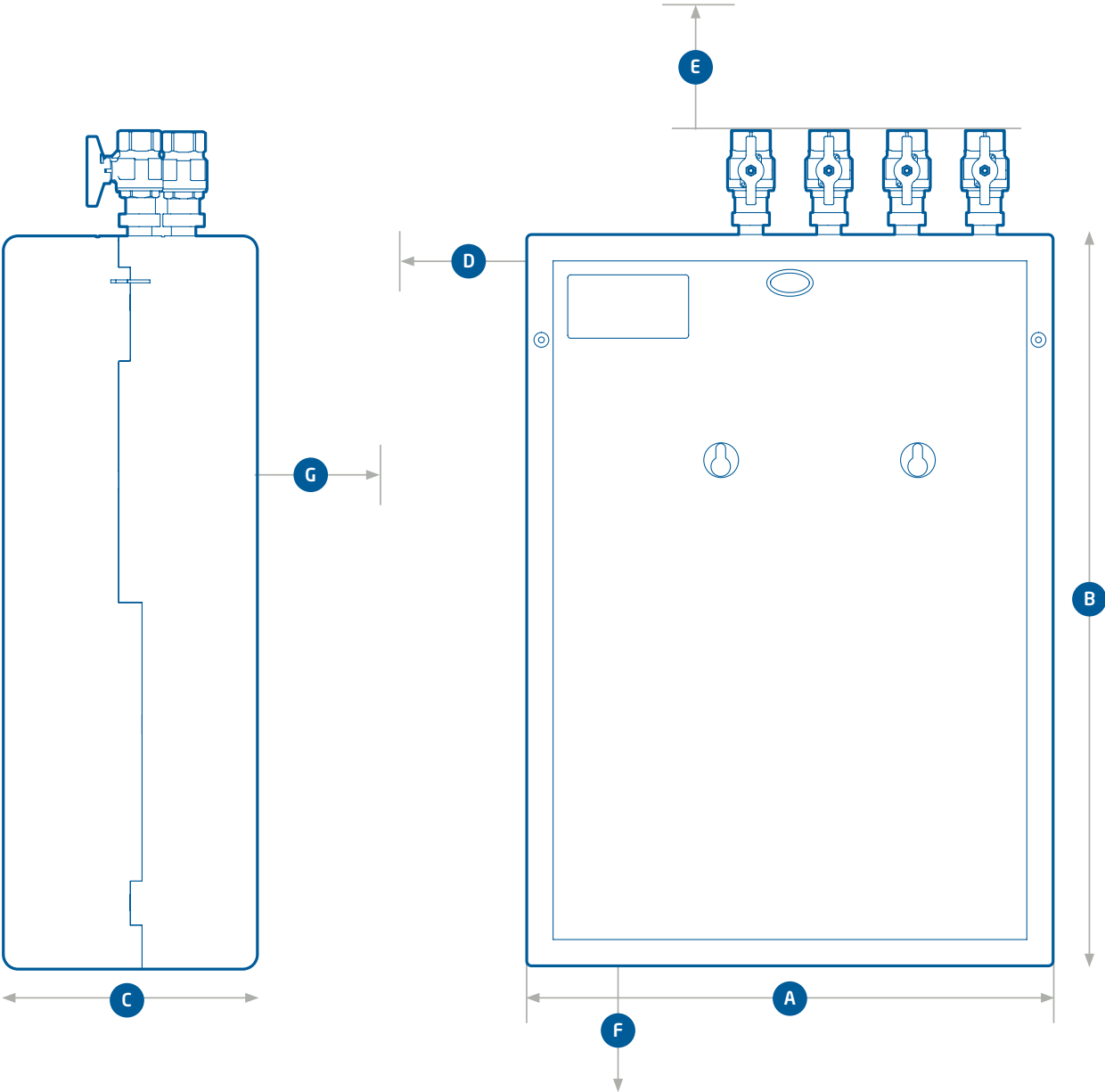
AquaHeat HI

DIMENSIONS AND SERVICE CLEARANCES

A HIU width	540mm
B HIU height	857mm
C HIU depth	260mm
D Side clearance	30mm
E Upper clearance	100mm
F Lower clearance	30mm
G Front clearance (in operation)	200mm

Service clearances shown here are the minimum recommended dimensions. Greater clearance will aid installation and maintenance.

INSIDE THE AQUAHEAT HI



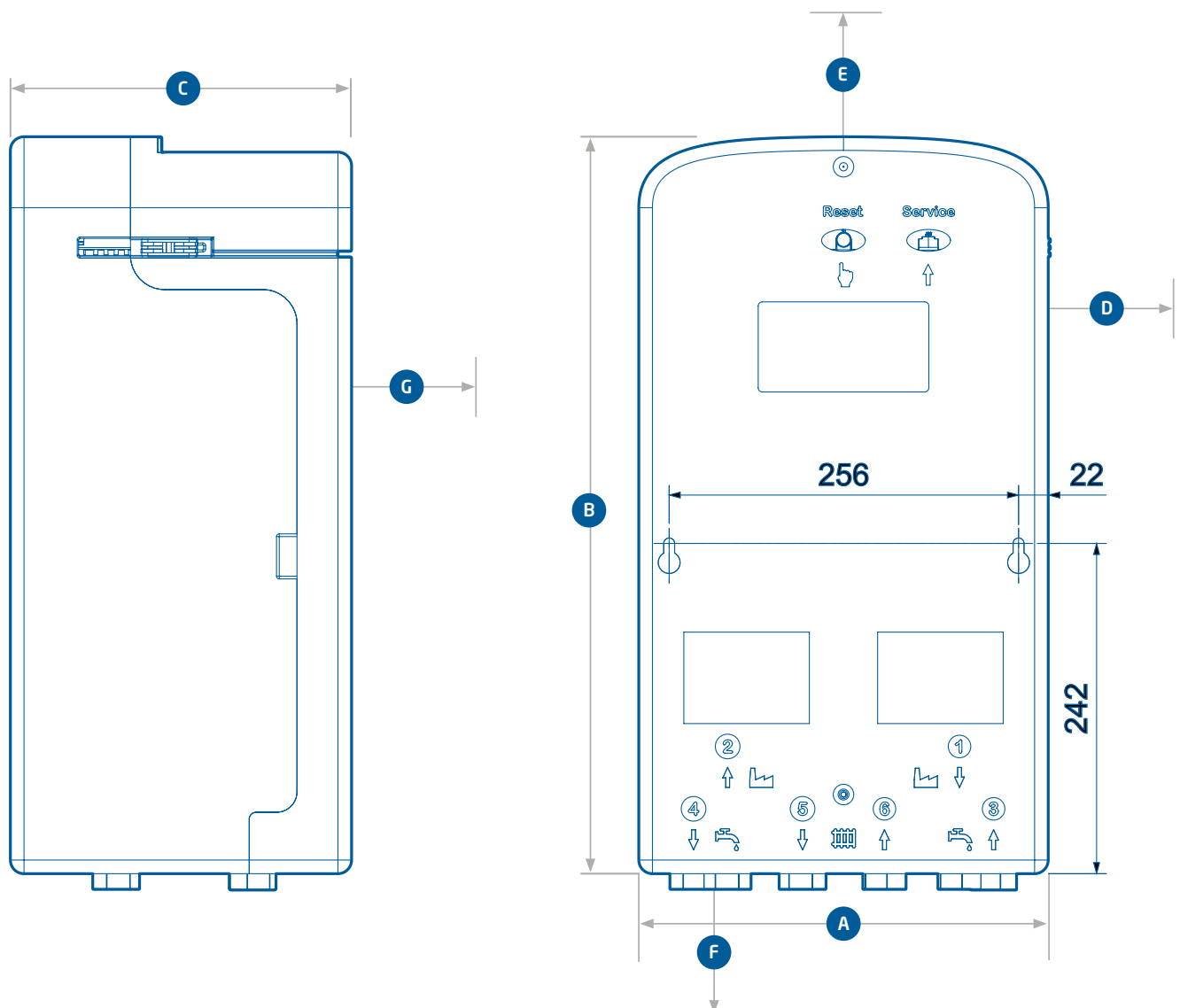
AquaHeat HD/HWI

INSIDE THE AQUAHEAT HD/HWI

DIMENSIONS AND SERVICE CLEARANCES

A HIU width	300mm
B HIU height	544mm
C HIU depth	250mm
D Side clearance	30mm
E Upper clearance	30mm
F Lower clearance	100mm
G Front clearance (in operation)	200mm

Service clearances shown here are the minimum recommended dimensions. Greater clearance will aid installation and maintenance.



Technical support

From brochures to CAD drawings and BIM files, you can access all the information you need from our UK and Ireland websites or call our sales or technical departments.

We're always happy to help.



UK

0345 070 1055
baxi.co.uk



IRELAND

00353(0) 1 4590870
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We can provide you with:

- Brochures
- Technical specification sheets
- Case studies
- Installation manuals
- BIM files
- CAD files
- Energy-related products directive data
- Commissioning
- Technical information
- Spare parts (part of our sales service)

Declaration of compliance

We hereby declare that the equipment is a product that complies with the following directives and standards. It has been manufactured and put into circulation in accordance with the requirements of the European Directives and the United Kingdom regulations. The full text of the EU declaration of conformity is supplied separately with your appliance.

Applied standards, regulations and directives:

- Machinery Directive 2006/42/EC
- Electromagnetic Compatibility Directive 2014/30/EU
- Radio Equipment Directive 2014/53/EU
- Low Voltage Directive 2014/35/EU
- Pressure Equipment Directive 2014/68/EU
- RoHS Directive 2011/65/EU Restriction of the use of certain hazardous substances
- Generic Standards: EN 61000-6-4, EN 61000-6-2
- Relevant Standard: EN 55014-1 and EN 55014-2
- SI 2016/1101 : UK Electrical Equipment (Safety) Regulations 2016
- SI 2016/1091 : UK Electromagnetic Compatibility Regulations 2016
- SI 2016/1105 : UK Pressure Equipment (Safety) Regulations 2016
- SI 2008/1597 : UK Supply of Machinery (Safety) Regulations 2008
- SI 2012/3032 : UK The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

202507

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