

HEATRAESADIA

SMARTER | CLEANER | WARMER

HI-MAX INSTANT ID



The Heatrae Sadia Hi-Max Instant ID Heat Interface Unit is designed to provide both central heating and domestic hot water to dwellings which are served by either a district heating scheme or a centralised boiler system.

The Hi-Max Instant ID has two generously sized plate heat exchangers, one for hot water and one for the apartment heating system. This optimum sizing of the plate heat exchangers mean the primary return temperatures going back to the district heating system are very low and as a result allow centralised zero and low carbon technologies to work efficiently.

THE INSTANTANEOUS HEAT INTERFACE UNITS PROVIDE THE FOLLOWING SYSTEM BENEFITS:

NO NEED FOR BOILER FLUES.

NO NEED FOR ANNUAL GAS SAFETY CHECKS AND SERVICING.

RENEWABLE ENERGY TECHNOLOGIES CAN BE INCORPORATED INTO THE CENTRALISED SYSTEM.

NO REQUIREMENT FOR QUALIFIED GAS OR UNVENTED HOT WATER ENGINEERS.

LOWER RUNNING COSTS IN COMPARISON TO INDIVIDUAL COMBI BOILERS.

BY USING THE FIRST FIX RAIL THE INSTALLER CAN MINIMISE THEIR EXPOSURE TO DAMAGE AND THEFT. THE FIRST FIX RAIL ENABLES THE INSTALLER TO CARRY OUT ALL OTHER WORK AND LEAVE INSTALLATION OF THE INTERFACE UNIT UNTIL SECOND FIX.

STANDARD FEATURES

COMPACT DESIGN, CAN FIT IN A STANDARD KITCHEN CUPBOARD.

SUITABLE FOR SINGLE AND DUAL ZONE HEATING SYSTEMS.

FULLY MODULATING PRESSURE INDEPENDENT FLOW CONTROL TECHNOLOGY FOR AUTOMATIC BALANCING AND FINE TEMPERATURE CONTROL.

PULSED BYPASS PRE-HEAT FUNCTION TO IMPROVE THE RESPONSE TIME TO DEMAND.

FACILITY TO CHANGE FACTORY SET DOMESTIC HOT WATER TEMPERATURE.

SAFETY TEMPERING FEATURE.

SCALE REDUCING FEATURE TAKING HEAT AWAY FROM THE HOT WATER PLATE HEAT EXCHANGER WHEN THERE IS NO HOT WATER DEMAND.

CENTRAL HEATING FLUSH AND FILL WITH FILLING LOOP.

NO COMPRESSION JOINTS ON THE DISTRICT HEATING SYSTEM.

DHW AND CENTRAL HEATING PLATE HEAT EXCHANGERS PROVIDE A PRESSURE BREAK TO BOTH SYSTEMS.

8 LITRE CENTRAL HEATING EXPANSION VESSEL.

ACCESS TO ALL COMPONENTS FOR EASE OF MAINTENANCE.

FAULT CODE DIAGNOSTICS.

HIGH DISTRICT PRESSURE DIFFERENTIAL CAPABILITIES 400KPA.

PLUG AND PLAY APPROACH TO COMMISSIONING.

PROVISION FOR A HEAT METER OF YOUR CHOICE - STOOL PIECE FITTED - 3/4" BSP X 110MM.

AUTOMATIC FAULT DIAGNOSTICS.

HEATING OPTIMISATION.

AUTOMATIC PRIMARY FLOW LIMITATION IN HEATING MODE.

INSTALLER TERMINAL BOX.

DHW PRIORITY.

OPTIONS

FIRST FIX RAIL WITH IN-BUILT ISOLATION VALVES AND SAFETY VALVE DISCHARGE CONNECTION.

STAND-OFF ASSEMBLIES FOR VARIOUS CONNECTION POSITIONS FROM ABOVE OR BELOW THE PRODUCT.

CENTRAL HEATING PROGRAMMABLE ROOM THERMOSTAT.

CENTRAL HEATING ZONE VALVE.

INSULATED WHITE POWDER COATED STEEL CASING FOR A NEAT FINISH.

CONCEALED CASING FIXING SCREWS TO DETER UNAUTHORISED ACCESS INSIDE THE UNIT.

HEAT METER OPTIONS AVAILABLE.

TENANTS ASSEMBLY INCORPORATING COLD WATER SUPPLY ISOLATION VALVE AND METERING, PRESSURE REDUCING VALVE AND PRESSURE GAUGE.

HEAT METER OPTIONS

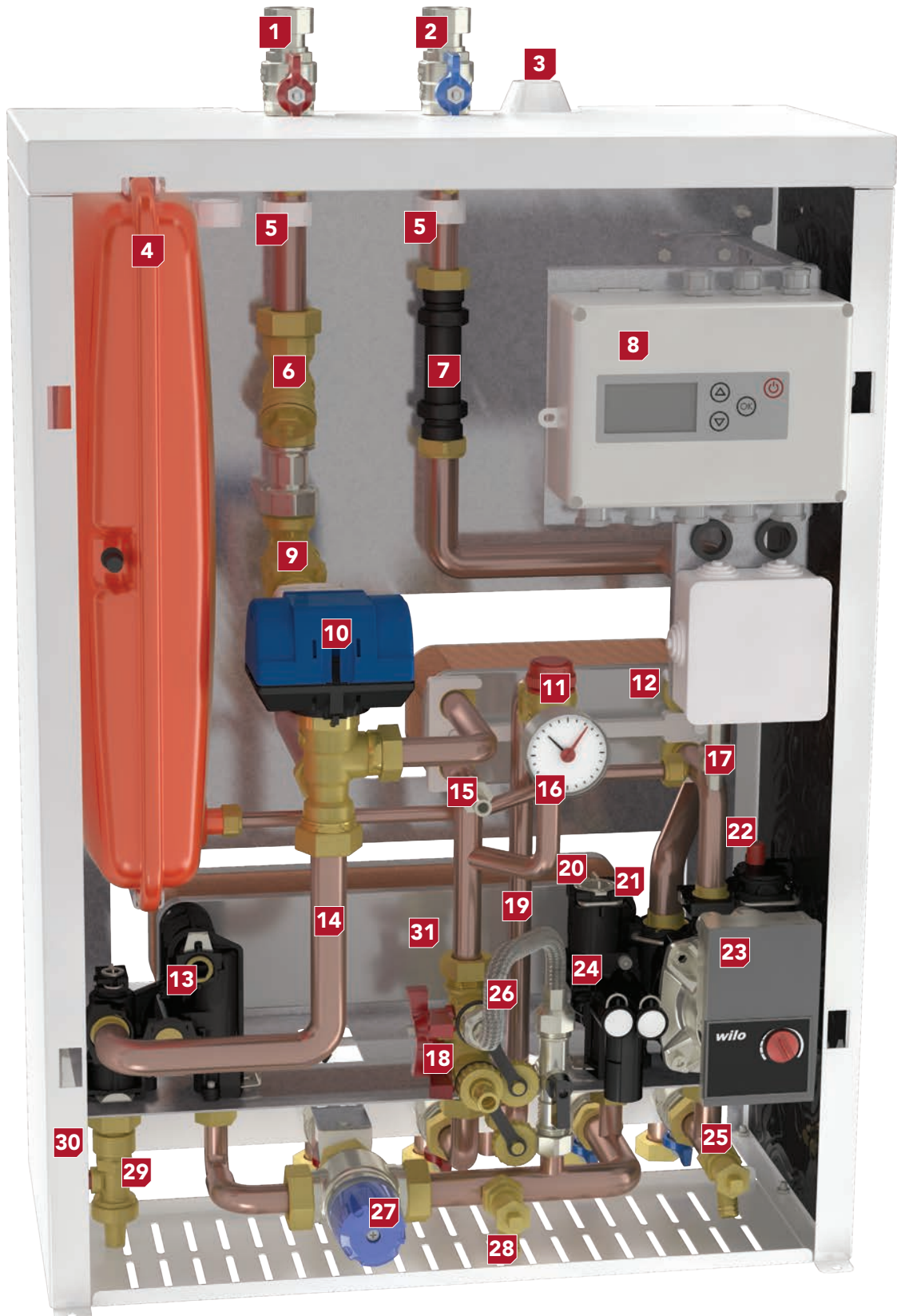
OPEN PROTOCOL ULTRASONIC HEAT METER MID CLASS 2 APPROVED WITH A CHOICE OF WIRED OR WIRELESS MBUS OUTPUT WITH 11 YEAR BATTERY LIFE.

DATA COLLECTOR FOR WIRED AND WIRELESS MBUS METERS.

TWO PULSED INPUTS ALLOWING FOR ADDITIONAL METERS TO THE HEAT METER DATA COLLECTION SYSTEM (E.G. COLD WATER).

OTHER NETWORK OPTIONS ARE AVAILABLE FROM SELECTED PARTNERS.

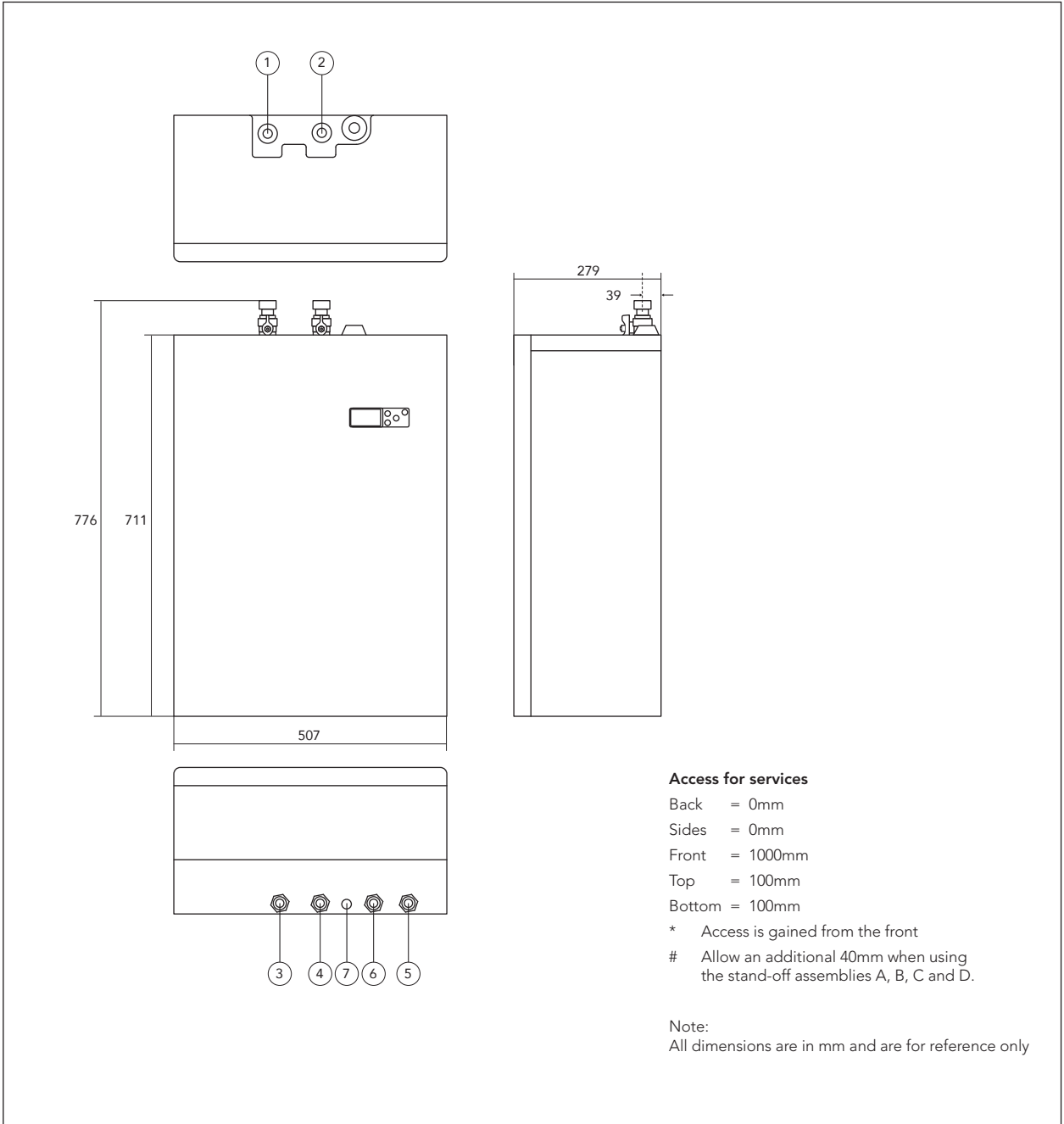
HI-MAX INSTANT PRODUCT FEATURES



HI-MAX INSTANT PRODUCT FEATURES

FEATURES	HI-MAX INSTANT	HI-MAX INSTANT
	ID-5/60	ID-5/80
1 DISTRICT HEATING FLOW ISOLATION VALVE	3/4" BSP FEMALE	3/4" BSP FEMALE
2 DISTRICT HEATING RETURN ISOLATION VALVE	3/4" BSP FEMALE	3/4" BSP FEMALE
3 CABLE ENTRY GROMMET		
4 HEATING EXPANSION VESSEL	8 LITRE (1 BAR GAS CHARGE)	8 LITRE (1 BAR GAS CHARGE)
5 P/T TEST PLUGS		
6 STRAINER WITH 500 MICRON MESH FILTER	3/4" BSP FEMALE	3/4" BSP FEMALE
7 HEAT METER STOOL PIECE	(3/4" BSP MALE X 110MM)	(3/4" BSP MALE X 110MM)
8 PID HEATING AND HOT WATER CONTROLLER		
9 PRESSURE INDEPENDENT CONTROL VALVE (PICV) WITH FULLY MODULATING MOTORISED ACTUATOR	1" BSP MALE	1" BSP MALE
10 DISTRICT FLOW DIVERTER VALVE (230V)	3/4" BSP MALE	3/4" BSP MALE
11 1/2" BSP HEATING SAFETY VALVE	SET TO LIFT AT 3 BAR G	SET TO LIFT AT 3 BAR G
12 HEATING BRAZED PLATE HEAT EXCHANGER	10.43KW	13.15KW
13 FLOW HYDROBLOCK WITH NTC DHW FLOW SENSOR		
14 ANTI-GRAVITY DIP PIPE		
15 HEATING FLOW PT1000 SENSOR		
16 HEATING PRESSURE GAUGE	0 - 4 BAR	0 - 4 BAR
17 HEATING RETURN PT1000 SENSOR FOR COMPENSATED HEATING		
18 HEATING FLUSH AND FILL COMMISSIONING VALVE	3/4" BSP MALE	3/4" BSP MALE
19 SAFETY VALVE DISCHARGE PIPE	15MM	15MM
20 COLD WATER FILTER		
21 HEATING LOW PRESSURE SWITCH		
22 HEATING AUTOMATIC AIR VENT		
23 LOW ENERGY HEATING PUMP WITH VARIABLE PRESSURE OR CONSTANT SPEED FEATURE AND ANTI-SEIZURE FUNCTION	60KPA HEAD	60KPA HEAD
24 RETURN HYDROBLOCK WITH COLD WATER FLOW SENSOR		
25 HEATING DRAIN VALVE		
26 FILLING LOOP		
27 HIGH TEMPERATURE SAFETY TMV FOR HOT WATER TEMPERING	SET AT 60°C	SET AT 60°C
28 DHW DRAIN VALVE		
29 DISTRICT HEATING DRAIN VALVE		
30 INSULATED WHITE POWDER COATED FINISH CASINGS	0.040 W/MK AT 40°C	0.040 W/MK AT 40°C
31 DHW BRAZED PLATE HEAT EXCHANGER	62.5KW AT 85°C PRIMARY FLOW	78.5KW AT 85°C PRIMARY FLOW

HI-MAX INSTANT SPECIFICATION AND ORDERING



CONNECTION	ID-5/60 & ID-5/80
Community Heating Flow Connection (1)	3/4" BSP Female
Community Heating Return Connection (2)	3/4" BSP Female
Domestic Hot Water Flow Connection (3)	3/4" BSP Female
Apartment Heating Flow Connection (4)	3/4" BSP Female
Apartment Heating Return Connection (5)	3/4" BSP Female
Cold Feed Connection (6)	3/4" BSP Female
Heating Safety Valve Discharge Connection (7)	15mm Pipe

HI-MAX INSTANT SPECIFICATION AND ORDERING

TECHNICAL DATA	ID - 5/60	ID - 5/80
Maximum pressure (DHW)	1.0 MPa (10 bar)	1.0 MPa (10 bar)
Maximum pressure (District Heating)	10 MPa (10 bar)	10 MPa (10 bar)
Maximum pressure (Apartment Heating)	0.30 MPa (3.0 bar)	0.30 MPa (3.0 bar)
Apartment heating pressure relief valve setting (PRV)	0.30 MPa (3.0 bar)	0.30 MPa (3.0 bar)
Maximum primary temperature	90°C	90°C
Maximum DHW temperature (Safety TMV setting)	60°C	60°C
Maximum heating temperature	85°C	85°C
Maximum DHW output at 85°C primary flow (based on a 45K DHW temperature rise)	62.5kW	78.5kW
Nominal unit output in DHW mode (1)	45kW	60kW
Nominal unit output in heating mode (2)	10.43kW	13.15kW
Maximum primary pressure differential (3)	400 kPa	400 kPa
Minimum primary pressure drop at maximum flow rate (hot water mode) (4)	61 kPa	78 kPa
Maximum primary design flow rate (DHW mode)	990 litres / hour	1330 litres / hour
Maximum primary flow rate (Heating mode)	390 litres / hour	480 litres / hour
Min / Max DHW flow rate at 55°C (45K temperature rise) at 85°C primary flow temperature	2.7 - 19.85 litres / min	2.7 - 24.94 litres / min
Heating pump nominal head capacity	60 kPa	60 kPa
Pulsed primary flow rate in pulsed standby mode	100 l/hr	100 l/hr
Electrical supply to HWS primary control valve, cylinder thermostats and immersion heater	1ph / 50Hz / 230-240V	1ph / 50Hz / 230-240V
Heat loss (kWh in 24h) in pulsed standby mode at 85°C district flow (5)	0.364 kWh/day	0.364 kWh/day
Weight (wet) Including casings and 1st fix rail	40.2 kg	40.7 kg
Weight (dry) including casings and 1st fix rail	37.1 kg	37.3 kg
Weight (dry) without casings or 1st fix rail	24.8 kg	25 kg

(1) Based on a district flow temperature of 75°C

(2) Output based on a primary flow temperature at 75°C and heating flow temperature of 60°C at maximum primary flow rate in heating mode.

(3) Maximum Delta P of the PICV

(4) Includes the minimum pressure drop through the PICV, but excludes pressure drop through the heat meter.

(5) Based on 20°C ambient air temperature

NB: Primary flow and district flow are the same.

MODEL	PRODUCT CODE
Heatrae Sadia HI-MAX INSTANT ID-5/60 HIU	95:050:202
Heatrae Sadia HI-MAX INSTANT ID-5/80 HIU	95:050:203
Heatrae Sadia HI-MAX INSTANT ID HIU Casing	95:970:040
Heatrae Sadia HI-MAX INSTANT ID HIU Standard First Fix Rail	95:970:042
Heatrae Sadia HI-MAX INSTANT ID HIU Basic Stand-off Kit	95:970:602
Heatrae Sadia HI-MAX INSTANT ID HIU Stand-off Kit A	95:970:046
Heatrae Sadia HI-MAX INSTANT ID HIU Stand-off Kit B	95:970:047
Heatrae Sadia HI-MAX INSTANT ID HIU Stand-off Kit C	95:970:048
Heatrae Sadia HI-MAX INSTANT ID HIU Stand-off Kit D	95:970:049

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