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**HUPER** heat interface unit HIUV 3-40

**Heat interface unit model no. HIUV 3-40, with priority hot water  
(optional model HIUV 3-40 direct type HIU with priority hot water for UFH)**

**Accessories and options:**

- with cold water supply connection
- with fitted heat meter
- with cold water meter (only for sub-metering; not billing)
- isolation ball valve kit - HIAC03BVPACK (set of two pairs ¾" valves only)
- first fix jig
- 60mm HIUV3-40 stand off frame - TH010014
- HIUV3-40 all connections kit ¾" and ½" ball valve kit - HIAC11PACKHR
- HIUV3-40 ½" connections only ball valve kit - TH000004

Hot water priority

Preheat function to keep hot water heat exchanger warm

Heating ramp up within three minutes

Unit shutdown if heating temperature goes to 50-55°C on under floor model

Anti-calcification pump run on, after hot water provision

**Features**

Cools the plate after hot water production to prolong the life of the plate heat exchanger

Additional shunt pump inside the station. enabling pump power from the plant room to be significantly reduced as the plant room pump does not have to deal with pressure loss within the dwellings.

Heating flow temperature can be adjusted between 30°C and 80°C.

Direct supply for under floor heating Option UFH protection with a safety switch.

Plus: additional UFH protection with a safety switch.

Safety during a power cut. Inlet valve is fail safe and will not allow overheating of the DHW plate, or to any UFH low temperature circuits when the electronic control is not functioning.

Mixing valve controls flow temperature of water to the heating hot water.

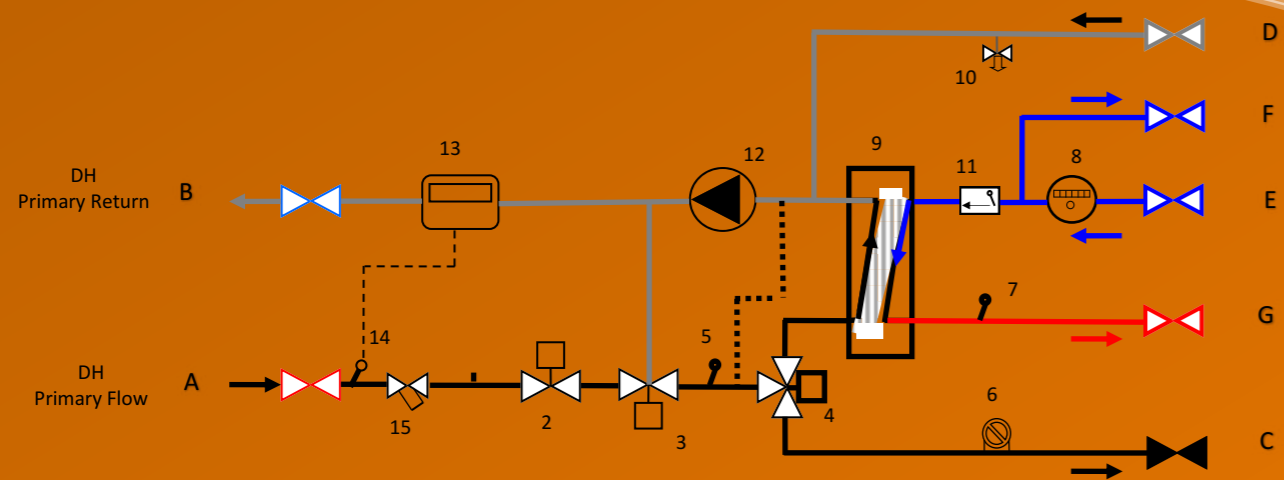
Pump bypass which works automatically if the unit is in heating mode and all circuits are closed. Water flow, passes through the bypass, around the heat exchanger, protecting the pump.

Electronic controller with manual temperature adjustment.

Shut off valve for either UFH high temperature protection, or pre-payment shut down when out of credit. No additional shut down valve is required.

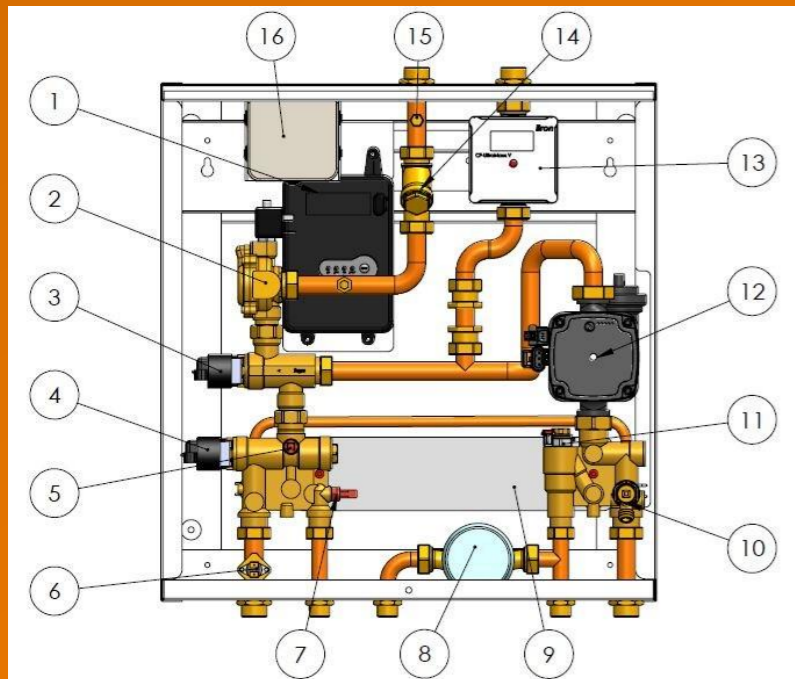


**HUPER**  
Heat Interface Unit  
HIUV 3-40



<b>A</b>	Primary FLOW connection	¾" M
<b>B</b>	Primary RETURN connection	¾" M
<b>C</b>	Central heating FLOW	¾" M
<b>D</b>	Central heating RETURN	¾" M
<b>E</b>	COLD water supply IN connection	½" M
<b>F</b>	Cold water supply OUT Option	½" M
<b>G</b>	Hot water OUT (DHWS)	½" M

1	Electronic controller	TH860001
2	Solenoid zone valve	TH920003
3	Mixing valve stepper motor	TH960001
4	Diverter valve stepper motor	TH960001
5	Temperature sensor	TH980001
6	CH safety cut out klixon	EL800026
7	DHW temperature sensor	TH980001
8	Water meter	TBA*
9	Heat exchanger 40 plate	HE884098
10	Drain valve	PF920007
11	DHW flow switch	TH860003
12	Pump Erp compliant	TH900003
13	Heat meter calculator	TBA*
14	Heat meter temp. sensor	TBA*
15	Strainer	PF941020
16	Wiring box	POA



**HIUV 3-40**

**Data**

Maximum operating pressure (bar)	10
Maximum hot water flow rate (l/min)	14 to 18
Maximum district flow rate (l/min)	18
Maximum pressure differential (bar)	3
Weight (empty/installed) (kg)	21
<b>Available settings</b>	
Temperature of heating - low mode °C	30-45
Temperature of heating - high mode °C	30-80
Temperature of hot water °C	40-60
<b>Hot water performance</b>	
<b>40 plate</b>	
10°C to 50°C at 14 l/min (kw) Primary flow 0.266 ltrs/sec	50kw
Max DHWS flow (l/min)	18
Min DHWS pressure	1,5
<b>Max hot water temperature</b>	
10 bar	
<b>Heating performance</b>	
At 18 l/min and ΔT of 15°C (kw)	
15	
<b>"District" heat provision</b>	
Maximum inlet temperature °C	85
Minimum required "district" flow rate @ 80°C to provide hot water 10° to 50°C at max flow rate (l/min)	9.36
Minimum required "district" flow rate @ 70°C to provide hot water 10° to 50°C at max flow rate (l/min)	11.98
Maximum pressure	10 bar
<b>Electrical data</b>	
Electrical supply	230V AC 50Hz 1Ph
Power consumption full load (watts)	105
<b>Connection data</b>	
"District" inlet and outlet	¾" male BSP
Heating system inlet and outlet	¾" male BSP
Cold water inlet & outlet and hot water outlet	½" male BSP