The Logic heat interface unit is the latest ‘intelligent’ range of Logic HIUs from Ideal. The Logic HIU is the complete solution for instantaneous hot water production and space heating control.

This is a direct wall mounted HIU, providing 50 kW indirect instantaneous priority Domestic Hot Water (DHW). Central Heating (CH) is dependent upon the primary system design and pump specification.

FEATURIS & BENEFITS

- Single plate design hydraulically separates the domestic water with the space heating supplied directly from the central primary supply
- Internal electronic control unit with LCD display
- Compact and lightweight
- Fully insulated EPP front cover
- Includes differential pressure control valve (DPCV)* supplied and fitted to the base of the unit
- Ability to pre-heating of the DHW exchanger

DIMENSIONS & CLEARANCES

<table>
<thead>
<tr>
<th>CONNECTION</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thread</td>
<td>G¾”</td>
<td>G½”</td>
<td>G1***</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F</th>
<th>Depth inc. Cover</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>550mm</td>
<td>265mm</td>
<td>16</td>
</tr>
</tbody>
</table>

**After shut-off valves are installed the connections become a female 3/4”.

* Not shown on components illustration.
LOGIC HIU - 50 DIRECT HT
TECHNICAL SPECIFICATIONS

PRIMAR PERFORMANCE

Maximum working pressure: 10 bar
Maximum temperature: 85°C
Max. Percentage of glycol: 30%
Max. Recommended primary circuit flow rate: 1.2 m³/h

HEATING

The temperature setting operates on the principle of set point regulation and can be fixed within application limits.

Heating Set Point: Dependent on primary system
Nom. heating exchanger net output: As primary and heating circuit controls permit
Heating circuit: Maximum pressure rating: as primary and heating circuit controls permit
Heating control circuit: VOLT FREE

DOMESTIC HOT WATER - DHW

INCLUDING OPTIONAL PRE HEAT FUNCTION

The DHW function takes priority over the heating function controlled by the DHW priority flow switch.

Set Point DHW temperature: 42 to 60°C
Max. Domestic hot water pressure: 10 bar
DHW circuit max. flow rate: 18 l/m (0.3 l/s)
Min. flow rate to activate domestic flow sensor: 2.7 l/m ± 0.3
Max. Differential pressure on domestic water modulating valve: Δp 0.9 bar
Min. Differential pressure on domestic water modulating valve: Δp 0.35 bar
Nom. DHW heat exchanger net output: 50 kW - Logic HIU 50 Direct HT

ELECTRICAL

Power supply: 230 V (ac) ±10% 50 Hz
Max. Power consumption: 105 W
Protection class: IP 40
Actuator: Stepper 24 V
Probes: NTC 10 kΩ

CONSTRUCTION

Frame: RAL 9010 sprayed steel
Protective shell cover: EPP (Expanded polypropylene)
Components: Brass BS EN 12165 CW617N
Pipes: Stainless steel
Exchanger: Brazed stainless steel

INCLUDED AS STANDARD

Heat Interface Unit HT
Primary ball valve set
Central heating flow & return valves
DHW inlet and outlet connection valves
Differential pressure control (DPC)

ACCESSORIES

Flushig By-pass
CF Echo II
CF Ultramaxx V

UIN PRODUCT NAME METERING OPTIONS
211096 Logic HIU Direct HT HIU only, meter not included
211349 Logic HIU Direct HT Factory fitted, CF Echo 11 MbBus 1
211353 Logic HIU Direct HT Factory fitted, CF Ultramaxx V MBus PS

DOMESTIC HOT WATER OUTPUT

Primary Flow Rate & Temperature

Domestic Hot Water Flow Rate @ 48°C - l/h

Primary Flow Rates

- 55°C: 1,500 l/h
- 60°C: 1,400 l/h
- 65°C: 1,300 l/h
- 70°C: 1,200 l/h

Domestic Flow Rates

- 55°C: 1,000 l/h
- 60°C: 900 l/h
- 65°C: 800 l/h
- 70°C: 700 l/h

Differential Pressure

- 1.0 bar
- 0.9 bar
- 0.8 bar
- 0.7 bar

Actuator Temperatures

- 55°C
- 60°C
- 65°C
- 70°C

GET A QUOTE

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