LOGIC HIU
HEAT INTERFACE UNIT - 75 INDIRECT

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 an indirect wall mounted HIU, providing 75 kW instantaneous priority DHW and 15 kW modulated CH. This can be converted to under floor heating including inbuilt safety thermostat capability.

FEATURES & BENEFITS

- Twin plate design hydraulically separates both domestic and space heating from the central primary supply
- Internal electronic control unit with LCD display
- The standard unit can be set to hold a stable heating flow temperature, to suit the installation (radiators, UFH for example), but crucially, can also be set to vary the heating flow temperature automatically depending on the temperature of the heating return water
- Automatically compensate for changes due to external influences, such as outside temperature etc. thereby ensuring that the unit and the system operate at maximum efficiency
- Convertible to underfloor heating
- Configurable hot water priority
- Pressure independent control valve
- Pump bypass protection, in case of complete radiator TRV shutdown
- 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>G(\frac{3}{4})</td>
<td>G(\frac{5}{8})</td>
<td>G(1)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>F</th>
<th>Depth inc. Cover</th>
<th>kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>630mm</td>
<td>265mm</td>
<td>19</td>
</tr>
</tbody>
</table>

* After shut-off valves are installed the connections become a female 3/4".
LOGIC HIU - 75 INDIRECT

TECHNICAL SPECIFICATIONS

PRIMARY PERFORMANCE

<table>
<thead>
<tr>
<th>Maximum working pressure:</th>
<th>16 bar - primary</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3 bar - secondary</td>
</tr>
<tr>
<td>Maximum temperature</td>
<td>85°C</td>
</tr>
<tr>
<td>Max. Percentage of glycol</td>
<td>30%</td>
</tr>
<tr>
<td>Max. Recommended primary circuit flow rate</td>
<td>1.2 m³/h</td>
</tr>
</tbody>
</table>

HEATING

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

- Heating Set Point: 25 to 75°C
- Nom. heating exchanger net output: 15 kW
- Secondary circuit: Maximum pressure rating 3 bar, Maximum operating pressure 2.5 bar
- Pump: UPS 15/60
- Pressure switch: Opening 0.4 bar, Closing 0.8 bar
- Safety relief valve setting: 3 bar
- Safety thermostat: 55°C ±3
- Expansion vessel: 7.5 litre
- Under floor heating capability: Optional
- 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: 26.6 l/m (0.44 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 1.65 bar
- Min. Differential pressure on domestic water modulating valve: Δp 0.35 bar
- Nom. DHW heat exchanger net output: 75 kW - Logic HIU 75 Indirect

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 75
- Primary ball valve set
- Domestic connection flow & return valve kit
- Filling loop connection kit valves

ACCESSORIES

- Flushing By-pass
- CF Echo II
- CF Ultramaxx V

UIN | PRODUCT NAME | METERING OPTIONS
--- | ------------ | -----------------
211093 | Logic HIU Indirect 75 | HIU only, meter not included
211346 | Logic HIU Indirect 75 | Factory fitted, CF Echo II MBus 1
211350 | Logic HIU Indirect 75 | Factory fitted, CF Ultramaxx V MBus PS

HYDRAULIC CHARACTERISTICS HEATING - SECONDARY SIDE

DOMESTIC HOT WATER OUTPUT

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GET A QUOTE