The Logic heat interface unit is the latest ‘intelligent’ range of HIU 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 50 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 compensates for changes due to external influences, such as outside temperature etc. thereby ensuring that the unit and the system operate at maximum efficiency
- Pump bypass protection, in case of complete radiator TRV shutdown
- Compact and lightweight
- Fully insulated EPP front cover
- Convertible to underfloor heating
- Configurable hot water priority
- Pressure independent control valve
- 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>G3/4&quot;</td>
<td>G5/8&quot;</td>
<td>G1&quot;</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 - 50 INDIRECT

## TECHNICAL SPECIFICATIONS

### PRIMARY PERFORMANCE

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum working pressure</td>
<td>16 bar - primary</td>
</tr>
<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

### 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 1.65 bar
- **Min. Differential pressure on domestic water modulating valve**: Δp 0.35 bar
- **Nom. DHW heat exchanger net output**: 50 kW - Logic HIU 50 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

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frame</td>
<td>RAL 9010 sprayed steel</td>
</tr>
<tr>
<td>Protective shell cover</td>
<td>EPP (Expanded polypropylene)</td>
</tr>
<tr>
<td>Components</td>
<td>Brass BS EN 12165 CW617N</td>
</tr>
<tr>
<td>Pipes</td>
<td>Stainless steel</td>
</tr>
<tr>
<td>Exchanger</td>
<td>Brazed stainless steel</td>
</tr>
</tbody>
</table>

### INCLUDED AS STANDARD

- Heat Interface Unit 50
- 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

### PRODUCTS

<table>
<thead>
<tr>
<th>UIN</th>
<th>PRODUCT NAME</th>
<th>METERING OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>211094</td>
<td>Logic HIU Indirect 50</td>
<td>HIU only, meter not included</td>
</tr>
<tr>
<td>211347</td>
<td>Logic HIU Indirect 50</td>
<td>Factory fitted, CF Echo II MbBus 1</td>
</tr>
<tr>
<td>211351</td>
<td>Logic HIU Indirect 50</td>
<td>Factory fitted, CF Ultramaxx V MbBus PS</td>
</tr>
</tbody>
</table>

### HYDRAULIC CHARACTERISTICS HEATING - SECONDARY SIDE

- **Flowrate (l/s)**
- **Pressure loss (kPa)**

### DOMESTIC HOT WATER OUTPUT

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

### Get A Quote

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E: commercial@idealboilers.com  
T: 0844 5436060