i-TEMP
wi models

i-Temp wi collection

The i-Temp wi collection has been developed to offer a large performance range by means of modular design with various combinations of heating and cooling elements which cater for a wide variety of applications. Providing complete reliability, highly accurate control, ease of handling and a favourable cost/performance ratio, these versatile heaters offer any industrial process application a consistent yet flexible temperature control solution.

The i-Temp wi units are designed as water heaters with indirect cooling for usage with open tank up to 95°C and as a closed system up to 160°C.

Furthermore all units feature intelligent controllers as standard offering accurate temperature measurement, indication and monitoring.

Unit features include:

- Self optimising C8 advanced controller with high control accuracy
- Simultaneous display of set and actual values
- Measuring, indication and monitoring of the flow rate (optional)
- Integrated operating and service information
- Storage and recall of process parameters with memory card
- Solid State Relays – energy saving control
- Continuous monitoring of process parameters
- Optional connection for external probe (PT100 or Fe-CuNi)
- Optional interfaces at front panel (analogue 0-10v, 0/4-20mA; serial RS 232, RS 422, RS 485, TTY, Can Bus, Profibus, Profinet, Devicenet, and Euromap 66)
- Splash proof electrics
## Technical data

### Model i-Temp

<table>
<thead>
<tr>
<th>Fluid</th>
<th>i-Temp wi 100</th>
<th>i-Temp wi 150</th>
<th>i-Temp wi 250</th>
<th>i-Temp wi 400</th>
<th>i-Temp wi 500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature max. (°C)</td>
<td>140</td>
<td>140</td>
<td>150 (95, 160)</td>
<td>140</td>
<td>140 (95, 150)</td>
</tr>
<tr>
<td>Pump capacity max. (l/min/bar)</td>
<td>70/4.7</td>
<td>200/5.1</td>
<td>230/5.5</td>
<td>420/3.6</td>
<td>500/4.2</td>
</tr>
<tr>
<td>Heating capacity, selectable (kW)</td>
<td>9/18/27/36/45/54/</td>
<td>9/18/27/36/45/</td>
<td>9/18/27/36/45/</td>
<td>9/18/27/36/45/</td>
<td>9/18/27/36/45/</td>
</tr>
<tr>
<td>Cooling</td>
<td>indirect</td>
<td>indirect</td>
<td>indirect</td>
<td>indirect</td>
<td>indirect</td>
</tr>
<tr>
<td>Cooling capacity (kW)</td>
<td>100</td>
<td>200</td>
<td>270</td>
<td>460</td>
<td>600</td>
</tr>
<tr>
<td>Process circuit supply and return connections</td>
<td>G1“</td>
<td>G1½“</td>
<td>G1½“</td>
<td>DN 50</td>
<td>DN 65</td>
</tr>
<tr>
<td>Housing length L (mm)</td>
<td>990 (1120/1465)</td>
<td>990 (1120/1465)</td>
<td>990 (1120/1465)</td>
<td>1465</td>
<td>1465</td>
</tr>
<tr>
<td>Housing width W (mm)</td>
<td>430 (510/570)</td>
<td>430 (510/570/695)</td>
<td>430 (510/570/695)</td>
<td>570 (695)</td>
<td>570 (695)</td>
</tr>
<tr>
<td>Housing height H (mm)</td>
<td>935 (1275)</td>
<td>935 (1035/1275)</td>
<td>935 (1035/1275)</td>
<td>1275</td>
<td>1275</td>
</tr>
<tr>
<td>Weight min. depending on the specification (Kg)</td>
<td>80</td>
<td>120</td>
<td>150</td>
<td>200</td>
<td>200 - 500</td>
</tr>
</tbody>
</table>

### Standard specification

- Control of cooling with solenoid valve
- Automatic fill
- Automatic venting and pressure relief
- Electronic level control with dry-running protection
- Safety thermostat
- Adjustable point limits
- Ramp function for temperature alteration
- Cooling down to safety temperature when switching off
- Strainer in cooling water inlet
- Continuous heater control with switch cabinet fan
- Acoustic alarm
- Digital flow rate indication and monitoring
- Separate fill line
- Pressurised air valve for mould draining
- Return temperature indication
- Connection for external Fe-CuNi or Pt 100
- Interface for central machine control
- Strainer in return line circulation medium
- Control of cooling with motor valve
- Additional expansion tank for large external volumes

### Options

- = Standard / o = Option / – = not available

### Technical data notes

- 1) at 15°C cooling water temperature and 130°C circulation medium temperature
- 2) depending on cooling water amount
- 3) depending on built in heating and cooling capacities as well as the size of the expansion tank