Cooling systems of the Chill Advanced product family are suitable for industrial applications that require liquid cooling. Equipped with their own cooling circuit and a medium-level cooling capacity range from 6 kW up to 70 kW, they are suitable for all purposes and numerous applications across all industries. Maximum quality and process reliability distinguish the open-circuit, contamination-free systems which can be adapted for special requirements and operating conditions with numerous hydraulic, electric and control options.

**Chill Advanced**

**SINGLE**

Cooling systems with integrated cooling circuit

**Cooling systems with integrated cooling circuit**

**STANDARD EQUIPMENT**

**General**
- Rugged, powder-coated sheet steel housing
- High-quality materials and components
- Suitable for indoor operation
- Air-cooled or water-cooled condensers

**Hydraulics**
- Nominal capacity at 10 °C water temperature and ambient temperature of 32 °C
- Refrigerant R134a or R406A, optional R507 for low fluid-temperature applications

**Electrical and control equipment**
- Micro-processor controller with control accuracy of up to ±1K
- Switch box to IP54
- Capacity control

**OPTIONS**
- SCT controller with 7" touch screen
- Equipment for extreme ambient temperatures
- Equipment for extreme fluid temperatures of -50 °C
- Split construction with external condenser
- Pressure gauging
- Frequency control of installed cold compressors for optimum capacity and energy optimization
- Flow rate metering by means of differential pressure or without moving components
- Volume-flow control
- Additional heater for extended temperature range
- High-pressure pumps
- Tank pump units with free cooling systems with or without glycol separation
- Connection for various analogue and digital electric interfaces
- Virtually unlimited hydraulic and electric options

**CHILL ADVANCED PLUS**
- Heater for maximum fluid temperatures of up to 180 °C
- Optional flow and pressure metering and SPS control
SINGLE Temperiertechnik GmbH, Ostring 17-19, 73269 Hochdorf / Germany, Phone: +49 (0) 7153/3009 - 0, Fax: +49 (0) 7153/3009 - 50, www.single-temp.de

SINGLE Cooling systems with integrated cooling circuit

Chill Advanced

Structural units

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Chill Advanced 6</th>
<th>Chill Advanced 9</th>
<th>Chill Advanced 14</th>
<th>Chill Advanced 20</th>
<th>Chill Advanced 25</th>
<th>Chill Advanced 30</th>
<th>Chill Advanced 40</th>
<th>Chill Advanced 60</th>
<th>Chill Advanced 70</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling capacity (30°C water temperature) kW</td>
<td>6</td>
<td>9/9.3</td>
<td>13.9</td>
<td>19.7</td>
<td>25.5</td>
<td>31.3</td>
<td>42</td>
<td>60</td>
<td>70</td>
</tr>
</tbody>
</table>

| Max. flow rate | 65/75* | 65/75* | 150 | 150 | 150 | 240 | 240 | 400 | 400 |
| Max. pressure (max. values of the characteristic) bar | 4.7/5.9* | 4.7/5.9* | 4/7.5* | 4/7.5* | 4/7.5* | 4.4/6.2* | 4.4/6.2* | 4.1/7.3* | 4.1/7.3* |
| Connections circulating media | G 3/4"FPT | G 3/4"FPT | G 1/1/4" | G 1/1/4" | G 1/1/2" | G 1/1/2" | G 2" | G 2" |
| Air flow-rate (with air-cooled condenser) m³/h | 3600 | 4000 | 5800 | 7500 | 8000 | 13000 | 16500 | 26900 | 42000 |
| Cooling water flow-rate (with water-cooled condenser) l/min | 25 | 32 | 45 | 50 | 67 | 110 | 167 | 200 | 250 |
| Connections cooling water | FPT | G 3/4" | G 3/4" | G 1/" | G 1/" | G 1/1/2" | G 1/1/2" | G 1/1/2" | G 1/1/2" |
| Temperature range °C | -5...+30 | -5...+30 | -10...+20 | -10...+20 | -10...+20 | -10...+20 | -10...+20 | -10...+20 | -10...+20 |
| Dimensions (without connections) L mm | 820 | 1020 | 1450 | 1450 | 1450 | 2015 | 2015 | 2415 | 2415/2150 |
| W mm | 640 | 640 | 750 | 750 | 750 | 850 | 850 | 1300 | 1300 |
| H mm | 1260 | 1460 | 1680 | 1680 | 1680 | 1920 | 2015 | 2050 | 2050 |
| Approximate weight kg | 195 | 270 | 400 | 470 | 480 | 750/600 | 850/750 | 1400/850 | 1600/1050 |

* Special pump

Optional SCT controller with 7" touch screen

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PI: Pressure manometer
PS+: High-pressure limiter
PS-: Low-pressure limiter