Product specification

Constant climate chamber

HPP750

Our constant climate chamber is tailored to environmental simulation, material testing and stability testing in accordance with the ICH guidelines.

On this page, you can find all the essential technical data on the Memmert stability chamber HPP.
### Temperature

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Working temperature range</strong></td>
<td>without light: from 0°C to +70°C</td>
</tr>
<tr>
<td><strong>Working temperature range</strong></td>
<td>with light: from +15°C to +40°C</td>
</tr>
<tr>
<td><strong>Setting accuracy</strong></td>
<td>0.1°C</td>
</tr>
<tr>
<td><strong>Temperature</strong></td>
<td>2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value</td>
</tr>
</tbody>
</table>

### Humidity

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Setting range humidity</strong></td>
<td>10 - 90 % rh</td>
</tr>
<tr>
<td><strong>Setting accuracy humidity</strong></td>
<td>0.5 %</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>humidity supply with distilled water from external tank by self-priming pump</td>
</tr>
<tr>
<td><strong>Humidification</strong></td>
<td>humidification by hot steam generator</td>
</tr>
<tr>
<td><strong>Dehumidification</strong></td>
<td>dehumidification by cold trap using the Peltier technology</td>
</tr>
</tbody>
</table>

### Control technology

<table>
<thead>
<tr>
<th>Feature</th>
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</tr>
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<tbody>
<tr>
<td><strong>ControlCOCKPIT</strong></td>
<td>TwinDISPLAY. Adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-colour displays.</td>
</tr>
<tr>
<td><strong>Language setting</strong></td>
<td>German, English, Spanish, French, Polish, Czech, Hungarian</td>
</tr>
<tr>
<td><strong>Adjustable parameters</strong></td>
<td>temperature (Celsius or Fahrenheit), relative humidity, programme time, time zones, summertime/wintertime</td>
</tr>
<tr>
<td><strong>Timer</strong></td>
<td>Digital backwards counter with target time setting, adjustable from 1 minute to 99 days</td>
</tr>
<tr>
<td><strong>Function HeatBALANCE</strong></td>
<td>adapting the distribution of the heating performance of the upper and lower heating circuit from -50 % to +50 %</td>
</tr>
<tr>
<td><strong>Function SetpointWAIT</strong></td>
<td>the process time does not start until the set temperature is reached</td>
</tr>
<tr>
<td><strong>Calibration</strong></td>
<td>three freely selectable temperature values, 2-point calibration for humidity: 20 and 90 % rh</td>
</tr>
</tbody>
</table>

### Communication

<table>
<thead>
<tr>
<th>Feature</th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Interface</strong></td>
<td>Ethernet LAN, USB</td>
</tr>
<tr>
<td><strong>Documentation</strong></td>
<td>programme stored in case of power failure</td>
</tr>
<tr>
<td><strong>Programming</strong></td>
<td>AtmoCONTROL software on a USB stick for programming, managing and transferring programmes via Ethernet interface or USB port</td>
</tr>
</tbody>
</table>

### Safety

<table>
<thead>
<tr>
<th>Feature</th>
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</tr>
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<tbody>
<tr>
<td><strong>Temperature control</strong></td>
<td>over- and undetemperature monitor TWW, protection class 3.3 or adjustable temperature limiter TWB, protection class 2, selectable on display</td>
</tr>
<tr>
<td><strong>AutoSAFETY</strong></td>
<td>additionally integrated over- and undetemperature protection &quot;ASF&quot;, automatically following the setpoint value at a preset tolerance range, alarm in case of over- or undetemperature, heating function is switched off in case of overtemperature, cooling function in case of undetemperature</td>
</tr>
<tr>
<td><strong>Autodiagnostic system</strong></td>
<td>integral fault diagnostics for temperature and humidity control</td>
</tr>
<tr>
<td><strong>Alarm</strong></td>
<td>visual and acoustic</td>
</tr>
</tbody>
</table>
Memmert GmbH + Co. KG | Tel. +49 (0) 9122/925-0 | E-Mail info@memmert.com

# Heating concept

**Peltier**

energy-saving Peltier heating-/cooling system integrated in the rear (heat pump principle)

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## Standard equipment

**Internals**

2 stainless steel grid(s), electropolished

**Standard accessories**

Water tank including connection hose

**Works calibration certificate**

standard values +10 °C and +37 °C, 60 % rh at +30 °C

**Door**

inner glass doors

**Door**

fully insulated stainless steel doors with 2-point locking (compression door lock)

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## Stainless steel interior

**Volume**

749 l

**Dimensions W x H x D in mm**

\[ w_{(A)} \times h_{(B)} \times d_{(C)} = 1040 \times 1200 \times 600 \text{ mm} \]

**Max. number of internals**

14

**Max. loading of chamber**

200 kg

**Max. loading per internal**

30 kg

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## Textured stainless steel casing

**Installation**

on lockable castors

**Dimensions**

\[ w_{(D)} \times h_{(E)} \times d_{(F)} = 1224 \times 1726 \times 874 \text{ mm} \]

**Housing**

rear zinc-plated steel

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## Electrical data

**Voltage**

230 V, 50/60 Hz

**Electrical load**

approx. 1400 W

**Voltage**

115 V, 50/60 Hz

**Electrical load**

approx. 1400 W

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## Packing/shipping data/Setting Up

**Set Up**

The distance between the wall and the rear of the appliance must be at least 15 cm. The clearance from the ceiling must not be less than 20 cm and the side clearance from walls or nearby appliances must not be less than 5 cm.

**Transport information**

The appliances must be transported upright

**Customs tariff number**

8419 8998

**Country of origin**

Federal Republic of Germany

**WEEE-Reg.-No.**

DE 66812464

**Dimensions approx incl. carton**

\[ B \times H \times T = 1330 \times 1910 \times 1050 \text{ mm} \]

**Net weight**

approx. 208 kg

**Gross weight carton**

approx. 279 kg
Temperature-humidity working range HPP

Not all climate chambers are the same. The humidity content of the chamber load, the ambient conditions and the respective temperature-humidity working range are decisive factors in the selection of the right appliance. In the adjacent diagram, you can see the possible temperature/humidity combinations for our constant climate chamber HPP. Within the respective temperature-humidity range, condensation-free permanent operation is possible. To which extent condensation may occur in the threshold range depends on the humidity content of the chamber load and the ambient conditions.

Standard units are safety-approved and bear the test marks

CE EAC