Constant climate chamber

HPP260

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. Our customer relations team will be pleased to help if you want further information.
## Control of standard components

<table>
<thead>
<tr>
<th>ControlCOCKPIT</th>
<th>adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-color displays</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature</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>
<tr>
<td>Timer</td>
<td>Digital backwards counter with target time setting, adjustable from 1 minute to 99 days</td>
</tr>
<tr>
<td>Humidity</td>
<td>humidity supply with distilled water from external tank by self-priming pump</td>
</tr>
<tr>
<td>Humidity</td>
<td>active humidifying and de-humidifying adjustable from 10 - 90 % rh with digital display of relative humidity - resolution of display 0.1 %, setting accuracy 0.5 %</td>
</tr>
<tr>
<td>Humidity</td>
<td>humidity supply with distilled water from external tank by self-priming pump</td>
</tr>
<tr>
<td>Humidity</td>
<td>humidification by hot steam generator</td>
</tr>
<tr>
<td>Humidity</td>
<td>dehumidification by cold trap using the Peltier technology</td>
</tr>
</tbody>
</table>

### Temperature

- without humidity: from 0°C to +70°C
- with humidity: from +5°C to +70°C

### Control technology

<table>
<thead>
<tr>
<th>Function HeatBALANCE</th>
<th>adapting the distribution of the heating performance of the upper and lower heating circuit from -50% to +50 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>adjustable parameters</td>
<td>temperature (Celsius or Fahrenheit), relative humidity, program time, time zones, daylight savings time</td>
</tr>
<tr>
<td>Function SetpointWAIT</td>
<td>the process time does not start until the set temperature is reached</td>
</tr>
<tr>
<td>Language setting</td>
<td>German/English/Spanish/French</td>
</tr>
<tr>
<td>Calibration</td>
<td>three freely selectable temperature values, 2-point calibration for humidity: 20 and 90 % rh</td>
</tr>
</tbody>
</table>

### Ventilation

- forced ventilation by Peltier fan

### Communication

<table>
<thead>
<tr>
<th>Programming</th>
<th>AtmoCONTROL software on a USB stick for programming, managing and transferring programs via Ethernet interface or USB port</th>
</tr>
</thead>
<tbody>
<tr>
<td>Documentation</td>
<td>program stored in case of power failure</td>
</tr>
</tbody>
</table>
### Safety

**Autodiagnostic system**
integral fault diagnostics for temperature and humidity control

**Alarm**
audible and visual

**Temperature control**
over- and undertemperature monitor TWW, protection class 3.3 or adjustable temperature limiter TWB, protection class 2, selectable on display

**AutoSAFETY**
additionally integrated over- and undertemperature protection "ASF", automatically following the setpoint value at a preset tolerance range, alarm in case of over- or undertemperature, heating function is switched off in case of overtemperature, cooling function in case of undertemperature

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### Heating concept

Heating and cooling performance distribution by individual control of the Peltier elements in the upper and lower row

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

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### Standard equipment

<table>
<thead>
<tr>
<th>Door</th>
<th>fully insulated stainless steel door with 2-point locking (compression door lock)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door</td>
<td>inner glass door</td>
</tr>
<tr>
<td>Housing</td>
<td>rear zinc-plated steel</td>
</tr>
<tr>
<td>Internals</td>
<td>2 stainless steel grids</td>
</tr>
</tbody>
</table>

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### Stainless steel interior

\[ w_{\text{A}} \times h_{\text{B}} \times d_{\text{C}}: 25.2" \times 31.5" \times 19.7" \]

mm
Volume 256 l

Max. loading of chamber: 441 lbs

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### Textured stainless steel casing

\[ w_{\text{D}} \times h_{\text{E}} \times d_{\text{F}}: 32.4" \times 43.6" \times 30.5" \]

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### Electrical data

**115 V (+ / - 10%), 50/60 Hz / 7.2 amps**

**230 V (+ / - 10%), 50/60 Hz / 3.6 amps**

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### Packing/shipping data

the appliances must be transported upright

<table>
<thead>
<tr>
<th>Customs tariff number</th>
<th>8419 8998</th>
</tr>
</thead>
<tbody>
<tr>
<td>Country of origin</td>
<td>Federal Republic of Germany</td>
</tr>
<tr>
<td>WEEE-Reg.-No.</td>
<td>DE 66812464</td>
</tr>
</tbody>
</table>

Dimensions approx. incl. carton W x H x D: 36.6" x 54.3" x 36.6"

Net weight approx. 269 lbs

Gross weight carton approx. 382 lbs
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