Climate chamber
ICH750C

Unparalleled homogeneity of temperature and humidity! For stability testing according to ICH - WHO - EMA - ASEAN - GMP - GLP – GCCP.

On this page, you can find all the essential technical data on the Memmert climate chamber ICH. Our customer relations team will be pleased to help if you want further information. If you should require a customised special solution, please contact our technical specialists at myAtmoSAFE@memmert.com.
### Temperature

<table>
<thead>
<tr>
<th>Working temperature range</th>
<th>from +10°C up to +50°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setting accuracy temperature</td>
<td>0.1°C</td>
</tr>
</tbody>
</table>

2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value

### Humidity

<table>
<thead>
<tr>
<th>Humidity</th>
<th>humidity supply with distilled water from external tank by self-priming pump</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humidification</td>
<td>humidification by hot steam generator</td>
</tr>
</tbody>
</table>

Active humidifying and de-humidifying adjustable from 10-80 % rh with digital display of relative humidity - resolution of display 0.1 %, setting accuracy 0.5 %

### CO2

<table>
<thead>
<tr>
<th>CO2</th>
<th>CO2-supply via sterile filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO2</td>
<td>intrinsic adjustment of altitude above sea level</td>
</tr>
<tr>
<td>CO2</td>
<td>CO2-supply interruption upon door opening</td>
</tr>
<tr>
<td>CO2</td>
<td>digital electronic CO2-control with automatic zeroing (infrared measuring system) - adjustment range 0 - 10 % - resolution 0.1 %</td>
</tr>
</tbody>
</table>

### Control technology

<table>
<thead>
<tr>
<th>ControlCOCKPIT</th>
<th>TwinDISPLAY. Adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-colour displays.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language setting</td>
<td>German, English, Spanish, French, Polish, Czech, Hungarian</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>Function SetpointWAIT</td>
<td>the process time does not start until the set temperature is reached</td>
</tr>
<tr>
<td>Calibration</td>
<td>three freely selectable values each, temperature/humidity, for two freely selectable values CO2</td>
</tr>
</tbody>
</table>

Adjustable parameters: temperature (Celsius or Fahrenheit), fan speed, CO2, programme time, time zones, summertime/wintertime

### Ventilation

| Fan | forced air circulation in working chamber adjustable from 10 to 100 % in 10 % steps, fixed value 50 % when working with CO2 |

### Communication

| Documentation | programme stored in case of power failure |
| Programming | AtmoCONTROL software on a USB stick for programming, managing and transferring programmes via Ethernet interface or USB port |
### Safety

**Temperature control**
- mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 10°C above nominal temperature

**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 is switched off in case of overtemperature, compressor in case of undertemperature

**Autodiagnostic system**
- integral fault diagnostics for temperature, CO2 and humidity control

**Alarm**
- visual and acoustic

### Heating concept

**Air jacket**
- air jacket heating system for gentle all-around heating

**Heating concept**
- no drying-up of the load caused by the cooling device due to separation of thermal jacket from interior

**Cooling**
- energy-saving use of CFC-free cooling/heating system (refrigerant R134a)

**Defrosting**
- highly efficient automatic defrosting system

### Standard equipment

**Internals**
- 2 stainless steel grid(s), electropolished

**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)

### Stainless steel interior

**Volume**
- 749 l

**Dimensions W x H x D in mm**
- \( w_{(A)} \times h_{(B)} \times d_{(C)} \): 1040 x 1200 x 600 mm

**Max. number of internals**
- 14

**Max. loading of chamber**
- 200 kg

**Max. loading per internal**
- 30 kg

### Textured stainless steel casing

**Installation**
- on lockable castors

**Dimensions**
- \( w_{(D)} \times h_{(E)} \times d_{(F)} \): 1224 x 1950 x 834 mm

**Housing**
- rear zinc-plated steel
### Electrical data

<table>
<thead>
<tr>
<th>Voltage</th>
<th>230 V, 50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical load</td>
<td>approx. 1350 W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Voltage</th>
<th>115 V, 50/60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical load</td>
<td>approx. 1350 W</td>
</tr>
</tbody>
</table>

### 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 x H x T: 1330 x 2150 x 1050 mm

#### Net weight

- approx. 249 kg

#### Gross weight carton

- approx. 319 kg

### Temperature-humidity working range ICH

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 climate chamber ICH. 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.

**Temperature-humidity working range ICH**

Standard units are safety-approved and bear the test marks

- CE
- EAC