

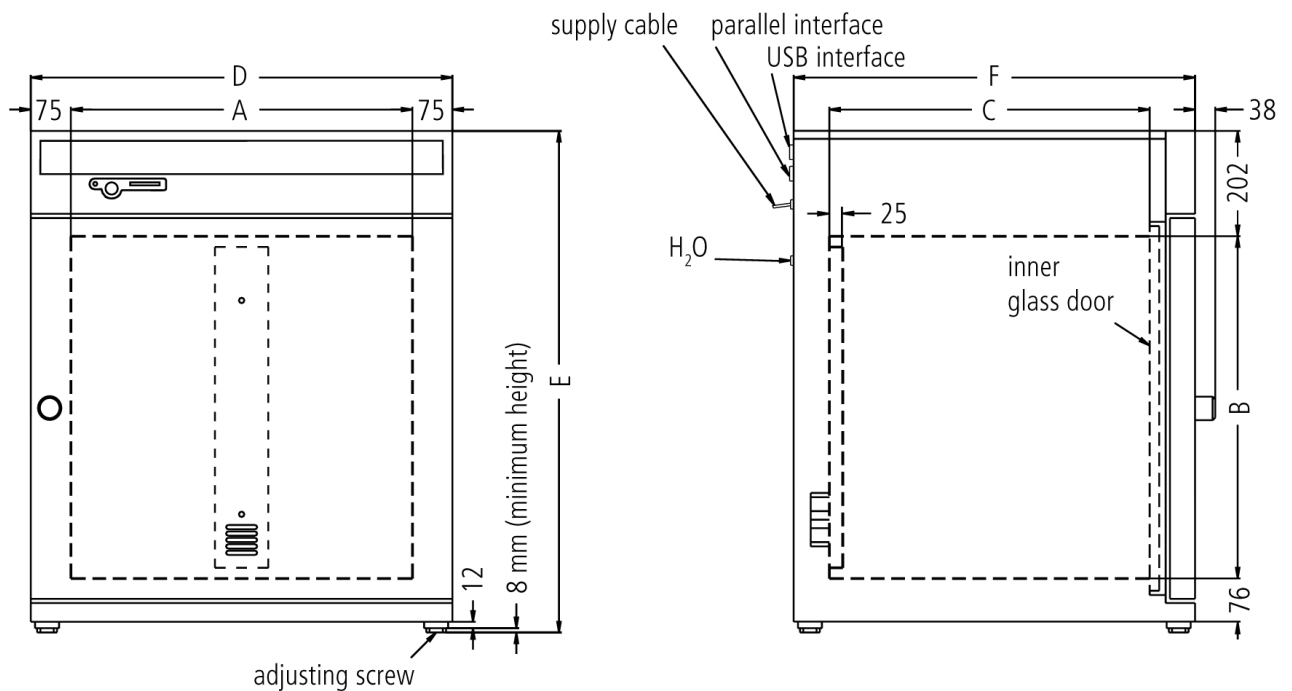


## Humidity chamber HCP108

High-precision control technology creates controlled and physiologically ideal surroundings for the perfect environment simulation in building physics, electronics, biology, zoology and botany.



On this page, you can find all the essential technical data on the Memmert humidity chamber HCP. 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](mailto:myAtmoSAFE@memmert.com).



## Control of standard components

<b>Controller</b>	Electronic microprocessor temperature controller with auto-diagnostic system
<b>Temperature</b>	2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value
<b>Timer</b>	digital 7-day programme timer with real time clock, precise minute setting
<b>Timer</b>	integrated timer for tempering profiles of up to 40 ramps each, each segment adjustable from 1 min. to 999 hrs.
<b>Controller</b>	digital display of all set parameters, such a temperature, weekdays, time, CO <sub>2</sub> , humidity and set-up values - language to be chosen via set-up
<b>Humidity</b>	active humidifying and de-humidifying control (20-95 %) with digital display of relative humidity - resolution of display 0.5 %, setting accuracy 1 %
<b>Humidity</b>	humidity supply with distilled water from external tank by self-priming pump
<b>Humidity</b>	active humidifying and de-humidifying adjustable from 20-95 % rh with digital display of relative humidity - resolution of display 0.5 %, setting accuracy 1 %
<b>Humidity</b>	humidity supply with distilled water from external tank by self-priming pump
<b>Humidity</b>	humidification by hot steam generator

## Temperature

	resolution of display for setpoint values 0.1°C up to 99.9°C, 0.5°C from 100°C and for actual values 0.1°C (LED)
	with humidity min. 8°C above ambient up to +90°C
	without humidity min. 8°C above ambient up to +160°C

## Control technology

<b>Calibration</b>	three freely selectable temperature values
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## Ventilation

**uniform atmosphere and temperature distribution owing to enclosed non-turbulent ventilation system in working chamber**

## Communication

<b>Documentation</b>	integrated ring memory as data logger for GLP-conforming long-term documentation of all relevant parameters - 1024 kB
<b>Documentation</b>	programme stored in case of power failure
<b>Documentation</b>	parallel printer interface (incl. real time clock with date function) for all PCL3-compatible ink jet printers for GLP-conforming documentation
<b>Interface</b>	USB-interface incl. Memmert software "Celsius" for programming and documentation
<b>Programming</b>	chip-card control incl. 1 MEMoryCard XL with 32 kB storage capacity (max. 40 ramps)

## Safety

<b>Autodiagnostic system</b>	integral fault diagnostics for temperature and humidity control
<b>Alarm</b>	visual and acoustic
<b>Temperature control</b>	overtemperature monitor TWW, protection class 3.1 or adjustable temperature limiter TWB, protection class 2, selectable on display
<b>Alarm</b>	with visual and acoustic alarm in case of over-/under temperature and underhumidity, open door and empty water tank
<b>AutoSAFETY</b>	additionally integrated over- and undertemperature monitor "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
<b>Temperature control</b>	mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 10°C above nominal temperature

## Heating concept

large-area multi-function heating system on four sides with additional door and back heating to avoid condensation

## Standard equipment

<b>Scope of delivery</b>	2nd chip-card (STERICard) for sterilisation of working chamber with fixed values (4 hours/160°C) without removal of sensors
<b>Scope of delivery</b>	incl. works calibration certificate for +60°C
<b>Door</b>	fully insulated stainless steel door with 2-point locking (compression door lock), lockable
<b>Door</b>	inner glass door
<b>Housing</b>	rear zinc-plated steel
<b>Interior</b>	easy-to-clean interior, made of stainless steel, reinforced by deep drawn ribbing, material 1.4301 (ASTM 304), hermetically welded
<b>Internals</b>	2 perforated stainless steel shelves

## Stainless steel interior

<b>Dimensions W x H x D in mm</b>	$w_{(A)} \times h_{(B)} \times d_{(C)}$ : 560 x 480 x 400 mm
<b>Volume</b>	108 l

## Textured stainless steel casing

$w_{(D)} \times h_{(E)} \times d_{(F)}$ : 710 x 778 x 550 mm

## Electrical data

Voltage	230 V, 50/60 Hz
Electrical load	approx. 1000 W

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## Packing/shipping data

the appliances must be transported upright

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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: 830 x 1050 x 800 mm
Net weight	approx. 70 kg
Gross weight carton	approx. 95 kg

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Standard units are safety-approved and bear the test marks

