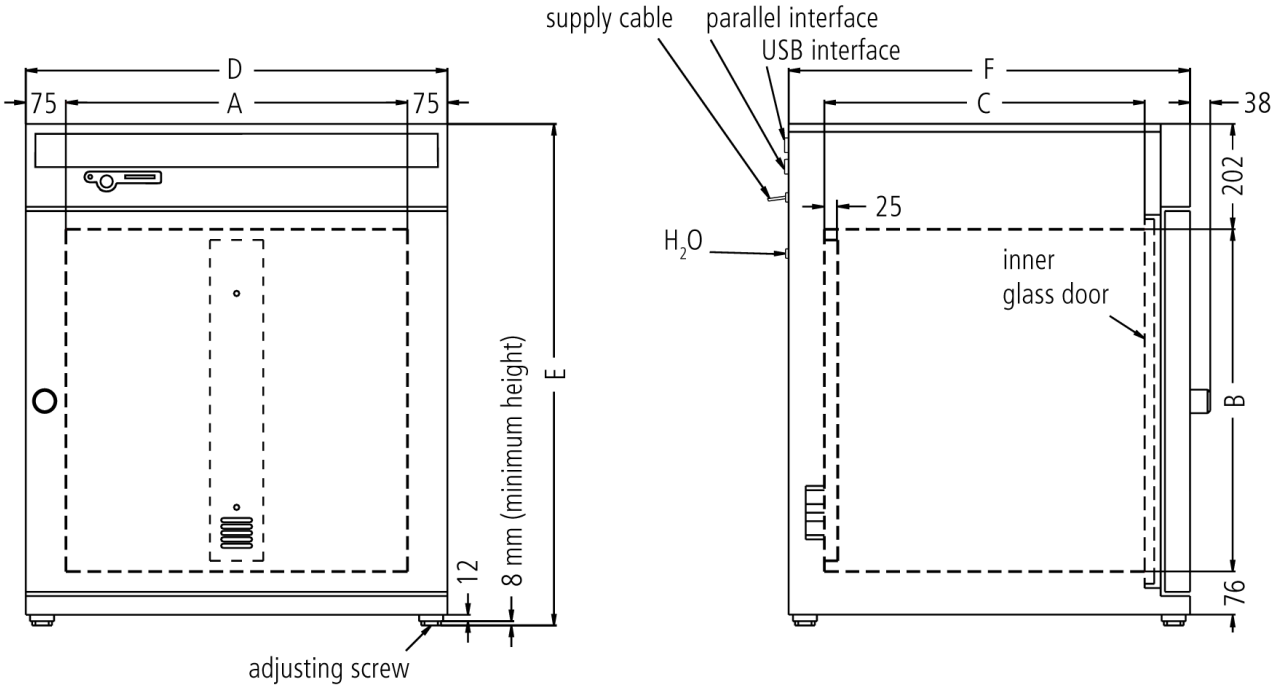
Humidity chamber

HCP246

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.



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Control of standard components

Controller	adaptive, fuzzy-supported multifunctional digital microprocessor PID-controller
Temperature	2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value
Timer	digital 7-day programme timer with real time clock, precise minute setting
Timer	integrated timer for tempering profiles of up to 40 ramps each, each segment adjustable from 1 min. to 999 hrs.
Controller	digital display of all set parameters, such a temperature, weekdays, time, CO2, humidity and set-up values - language to be chosen via set-up
Humidity	active humidifying and de-humidifying control (20-95 %) with digital display of relative humidity - resolution of display 0.5 %, setting accuracy 1 %
Humidity	humidity supply with distilled water from external tank by self-priming pump
Humidity	active humidifying and de-humidifying adjustable from 20-95 % rh with digital display of relative humidity - resolution of display 0.5 %, setting accuracy 1 %
Humidity	humidity supply with distilled water from external tank by self-priming pump
Humidity	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

Calibration	three freely selectable temperature values

Ventilation

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

Communication

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

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Safety

Autodiagnostic system	integral fault diagnostics for temperature and humidity control
Alarm	audible and visual
Temperature control	overtemperature monitor TWW, protection class 3.1 or adjustable temperature limiter TWB, protection class 2, selectable on display
Alarm	with audible and visual alarm in case of over-/under temperature and underhumidity, open door and empty water tank
AutoSAFETY	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
Temperature control	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

Scope of delivery	2nd chip-card (STERICard) for sterilisation of working chamber with fixed values (4 hours/160°C) without removal of sensors
Scope of delivery	incl. works calibration certificate for +60°C
Door	fully insulated stainless steel door with2-point locking (compression door lock), lockable
Door	inner glass door
Housing	rear zinc-plated steel
Interior	easy-to-clean interior,made of stainless steel,reinforced by deep drawn ribbing, material 1.4301 (ASTM 304), hermetically welded
Internals	2 perforated stainless steel shelves

Stainless steel interior

	$w_{(A)}$ x $h_{(B)}$ x $d_{(C)}$: 640 x 640 x 600 mm
	Volume 246 l

Textured stainless steel casing

	$w_{(D)}$ x $h_{(E)}$ x $d_{(F)}$: 790 x 938 x 750 mm

Electrical data

	230 V, 50/60 Hz / approx. 2000 W

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Packing/shipping data

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: 930 x 1140 x 930 mm
	Net weight approx. 110 kg
	Gross weight carton approx. 132 kg

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