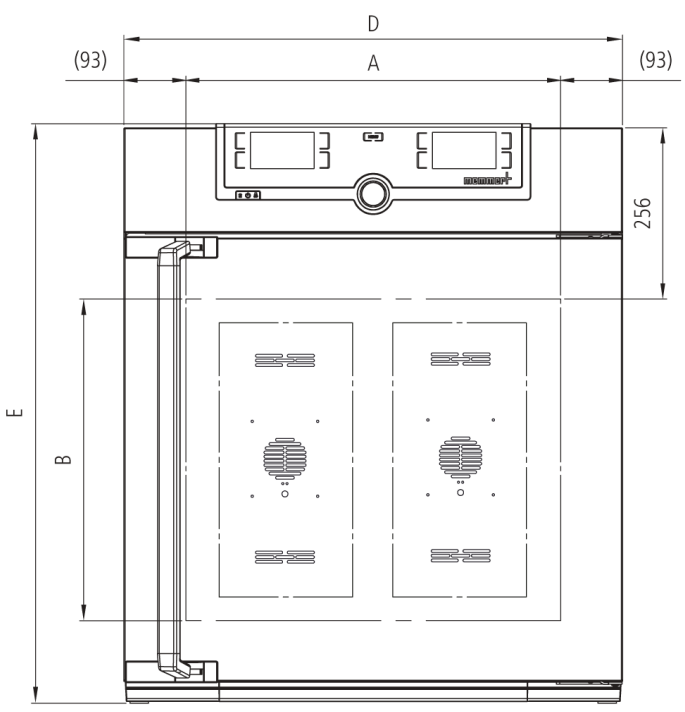
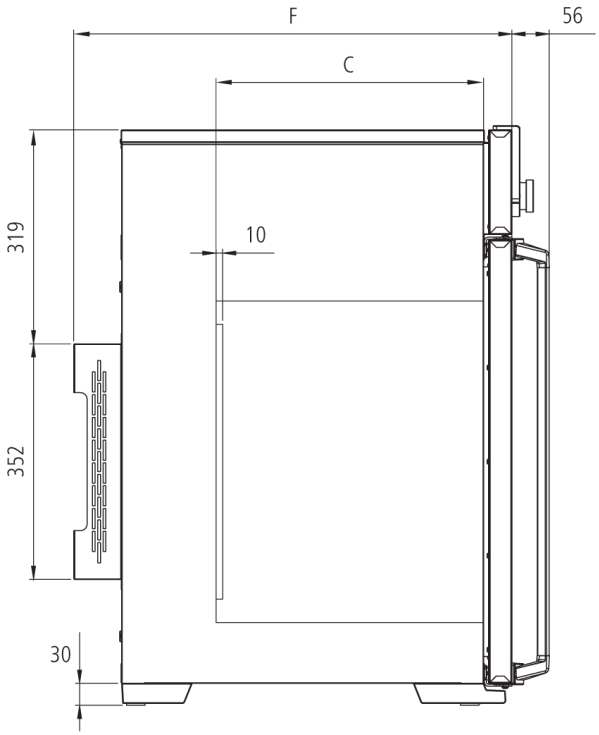
Constant climate chamber

HPP110

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. 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

ControlCOCKPIT	adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-colour displays
Temperature	2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value
Timer	Digital backwards counter with target time setting, adjustable from 1 minute to 99 days
Humidity	humidity supply with distilled water from external tank by self-priming pump
Humidity	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 %
Humidity	humidity supply with distilled water from external tank by self-priming pump
Humidity	humidification by hot steam generator
Humidity	dehumidification by cold trap using the Peltier technology

Temperature

	without light: from 0°C to +70°C
	with light: from +15°C to +40°C
resolution of display for setpoint and actual temperature values	0.1°C

Control technology

adjustable parameters	temperature (Celsius or Fahrenheit), relative humidity, programme time, time zones, summertime/wintertime
Function SetpointWAIT	the process time does not start until the set temperature is reached
Language setting	German/English/Spanish/French
Calibration	three freely selectable temperature values, 2-point calibration for humidity: 20 and 90 % rh

Ventilation

forced ventilation by Peltier fan	

Communication

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

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Safety

Autodiagnostic system	integral fault diagnostics for temperature and humidity control
Alarm	visual and acoustic
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

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)

Standard equipment

Door	fully insulated stainless steel door with2-point locking (compression door lock)
Door	inner glass door
Housing	rear zinc-plated steel
Internals	2 stainless steel grids

Stainless steel interior

Dimensions W x H x D in mm	$w_{(A)}$ x $h_{(B)}$ x $d_{(C)}$: 560 x 480 x 400 mm
Volume	108 l
Max. loading of chamber:	150 kg

Textured stainless steel casing

	$w_{(D)}$ x $h_{(E)}$ x $d_{(F)}$: 745 x 864 x 674 mm

Electrical data

Voltage **Electrical load**	115 V, 50/60 Hz approx. 650 W
Voltage **Electrical load**	230 V, 50/60 Hz approx. 650 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: 830 x 1050 x 800 mm
Net weight	approx. 77 kg
Gross weight carton	approx. 102 kg

Standard units are safety-approved and bear the test marks

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