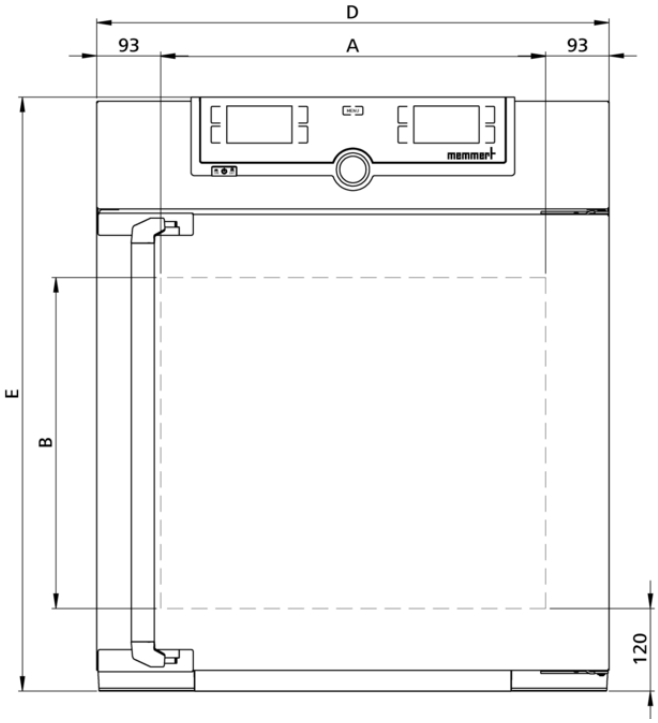
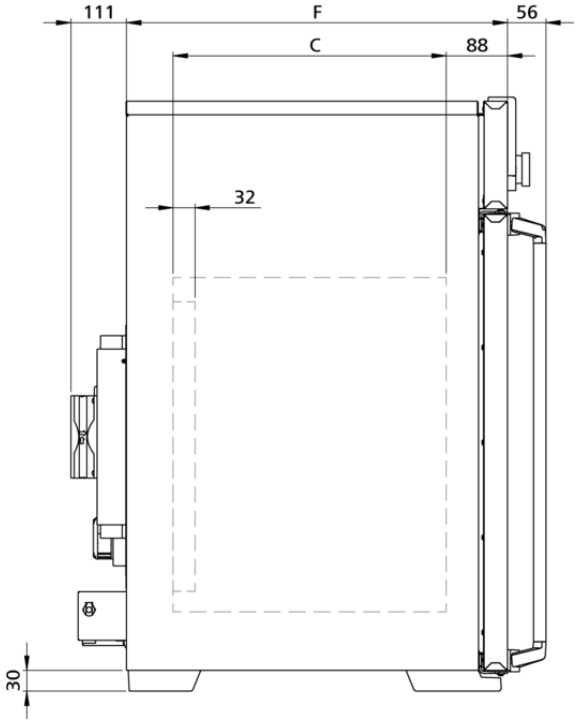
HPP110eco

Maximum energy efficiency in continuous operation - tailor-made for stability studies according to ICH guidelines, stability tests for cosmetics and foods as well as environmental testing and material testing



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 sales@memmert.com.





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Temperature

Setting temperature range	without light, with humidity: +5 to +70 °C
Setting temperature range	with light, with humidity: +5 to +70 °C
Setting temperature range	with light, without humidity: 0 to +70 °C
Setting temperature range	without light, without humidity: 0 to +70 °C
Working temperature range	with light, without or with humidity: 15 to +40 °C
Working temperature range	without light, with humidity: +5 (at least 20 below ambient temperature) to +70 °C
Working temperature range	without light, without humidity: 0 (at least 20 below ambient temperature) to +70 °C
Setting accuracy temperature	0.1 °C
Temperature sensor	2 Pt100 sensors DIN Class A in 4-wire-circuit for mutual monitoring, taking over functions in case of an error

Humidity

Setting range humidity	10 - 90 % rh
Humidity	humidity supply with distilled water from external tank by self-priming pump
Humidification	humidification by hot steam generator
Dehumidification	dehumidification by cold trap using the Peltier technology
Setting accuracy humidity	0.5 % rh

Control technology

ControlCOCKPIT	TwinDISPLAY. Adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-colour displays.
Language setting	German, English, Spanish, French, Polish, Czech, Hungarian
adjustable parameters	temperature (Celsius or Fahrenheit), relative humidity, programme time, time zones, summertime/wintertime
Timer	Digital backwards counter with target time setting, adjustable from 1 minute to 99 days
Function SetpointWAIT	the process time does not start until the set temperature is reached
Calibration	three freely selectable values each, temperature and humidity

Communication

Interface	Ethernet LAN, USB
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	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
Autodiagnostic system	integral fault diagnostics for temperature and humidity control
Alarm	visual and acoustic

Heating concept

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

Standard equipment

Standard works calibration certificate	+25 °C / 60 % rh, +40 °C / 75 % rh
Door	fully insulated stainless steel door with 2-point locking (compression door lock)
Door	inner glass door
Internals	2 stainless steel grid(s), electropolished
Standard accessories	Water tank including connection hose

Stainless steel interior

Dimensions	$w_{(A)}$ x $h_{(B)}$ x $d_{(C)}$: 560 x 480 x 400 mm (d less 32 mm for fan - Peltier)
Volume	108 l
Max. number of internals	5
Max. loading of chamber	150 kg
Max. loading per internal	20 kg

Textured stainless steel casing

Dimensions	$w_{(D)}$ x $h_{(E)}$ x $d_{(F)}$: 745 x 864 x 555 mm (d +56mm door handle & +111mm Peltier element)
Housing	rear zinc-plated steel

Electrical data

Voltage **Electrical load**	230 V, 50/60 Hz approx. 420 W
Voltage **Electrical load**	115 V, 50/60 Hz approx. 420 W

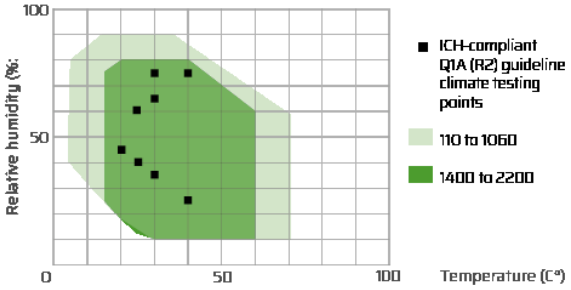
Ambient conditions

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.
Ambient temperature	16 ºC to 40 ºC
Humidity rh	max. 70 %, non-condensing
Altitude of installation	max. 2,000 m above sea level
Overvoltage category	II
Pollution degree	2

Packing/shipping data

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	w x h x d: 830 x 1050 x 800 mm
Net weight	approx. 64 kg
Gross weight carton	approx. 87 kg

The Peltier-cooled climate chamber HPPeco is specifically designed for stability studies according to ICH guidelines (Q1A) as well as stability tests for cosmetics and food. With the large working range ascending from the freezing point, the climate chamber is also ideal for working materials testing and environmental tests in industry.



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Standard units are safety-approved and bear the test marks

