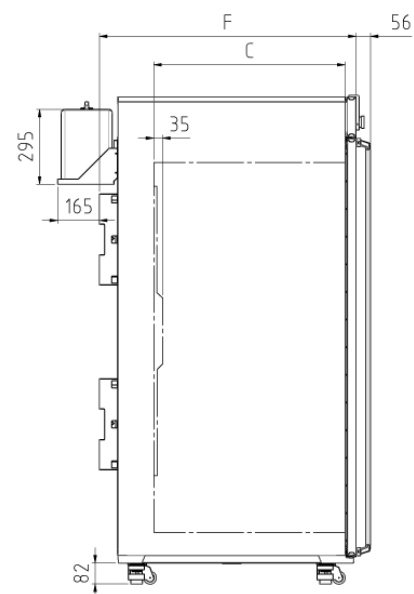
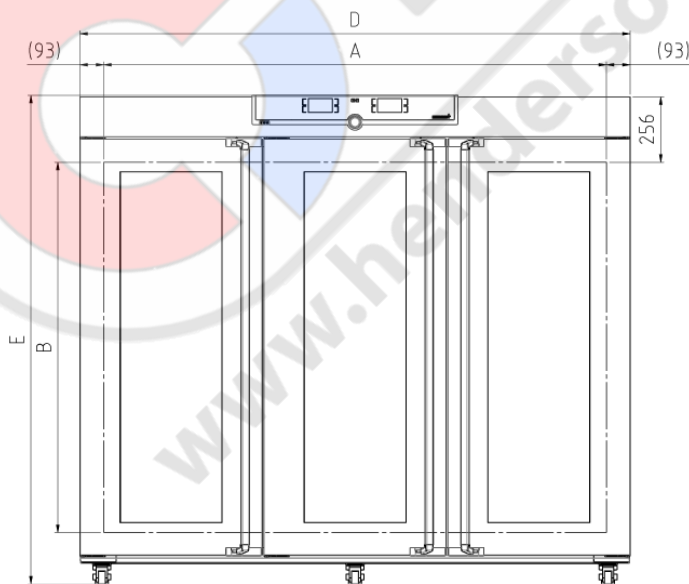


HPP2200eco

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.



Temperature

Setting temperature range	without light, with humidity: +15 to +60 °C
Setting temperature range	without light, without humidity: 0 to +70 °C
Working temperature range	without light, with humidity: +15 (at least 10 below ambient temperature) to +60 °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 - 80 % 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 HeatBALANCE	adapting the distribution of the heating performance of the upper and lower heating circuit from -50 % to +50 %
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 Stainless steel doors with glass sectors, fully heated inner glass panes integrated in the full-sight glass door with 2-point locking (compression door lock)

Internals 6 stainless steel grid(s), electropolished

Standard accessories Water tank including connection hose

Stainless steel interior

Dimensions $w_{(A)} \times h_{(B)} \times d_{(C)}$: 1972 x 1450 x 750 mm (d less 32 mm for fan - Peltier)

Volume 2140 l

Max. number of internals 42

Max. loading of chamber 330 kg

Max. loading per internal 30 kg

Textured stainless steel casing

Dimensions $w_{(D)} \times h_{(E)} \times d_{(F)}$: 2157 x 1913 x 905 mm (d +56mm door handle & +111mm Peltier element)

Installation on lockable castors, adjustable in height

Housing rear zinc-plated steel

Electrical data

Voltage 230 V, 50/60 Hz

Electrical load approx. 2000 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 °C to 40 °C

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

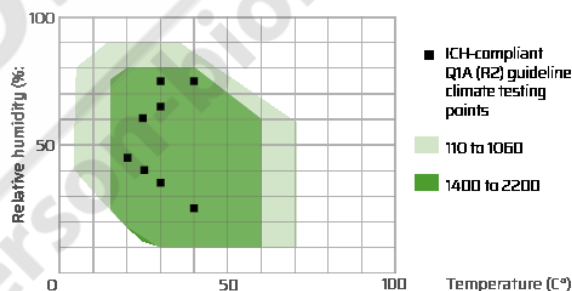
WEEE-Reg.-No. DE 66812464

Dimensions approx incl. wooden box w x h x d: 2300 x 2200 x 1190 mm

Net weight approx. 474 kg

Gross weight wooden box approx. 718 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.



Standard units are safety-approved and bear the test marks





LABORATORY EQUIPMENT MAINTENANCE, REPAIR, CALIBRATION AND SALES

Established in 1987, Henderson Biomedical is the UK's leading laboratory equipment sales and service provider. Our knowledgeable team can provide you with excellent sales advice on a range of different types of laboratory equipment including centrifuges, refrigerators, freezers and heat sealers.

Henderson Biomedical is also able to provide you with first class after-sales service and calibration of your laboratory equipment. We are an **ISO 17025 (UKAS) accredited calibration test laboratory** and our team of Field Service Engineers cover the whole of the United Kingdom.

Please contact us for more information on the types of equipment we supply and the different after-sales services we can offer.

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