



memmert
Experts in Thermostatics

Constant climate chamber HPP

Energy efficient with Peltier technology

Model sizes: 110, 260, 400 **NEW**, 750, 1060 **NEW**, 1400 **NEW**, 2200 **NEW**

Setting temperature range*: up to +70 °C (HPP110 – 1060) | up to +60 °C (HPP1400/HPP2200)

Setting range humidity*: 10 to 90 % rh (HPP110 – 1060) | 10 to 80 % rh (HPP1400/HPP2200)



Since 2000, the Peltier pioneer Memmert has continuously kept on improving its high-precision Peltier heating and cooling concept. This extremely sensitive temperature control ensures that processes are reliable and stable on the long term and can be reproduced under exactly defined conditions. In the XXL sizes HPP1060, HPP1400 and HPP2200, the temperature and humidity in the entire interior stay stable and are uniformly distributed even at full load thanks to the HeatBALANCE function.

The highlights of the constant climate chamber HPP

- Chamber volume of 108 to 2140 litres: with a total of seven models, Memmert has the world's largest range of constant climate chambers with Peltier technology
- Energy-saving Peltier heating/cooling system (without refrigerant)
- Low-noise and almost vibration-free operation
- Digitally controlled active humidification and dehumidification even at high ambient temperatures
- LED light module in two alternative colour temperatures (HPP110 – HPP750)
- AtmoCONTROL software to log the appliance parameters (in compliance with the FDA as option)

*FOR OPERATION WITHOUT LIGHT



ENERGY SAVING, LONG-TERM STABILITY AND MAINTENANCE FREE

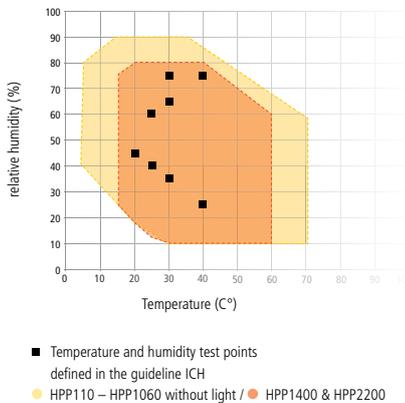
Main fields of application

The most common applications of Memmert HPP appliances are stability testing in accordance with ICH, GMP or IFSCC in the pharmacology, cosmetics and food industry as well as climate-controlled storage and conditioning. Thanks to its smooth and quiet operation, the constant climate chamber is also perfect for growing protein crystals and plants as well as for breeding insects or zebrafish and for keeping mice. The optional, innovative LED lighting guarantees natural growth conditions.

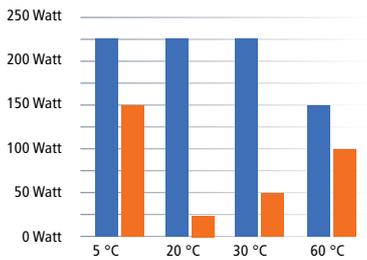
Reducing operating costs by up to 90 %

In most cases, stability tests are done close to ambient temperature. The Memmert heating and cooling concept using Peltier elements is especially economical for this purpose. Compared to a standard constant climate chamber, it can reduce the energy consumption by up to 90 % during continuous operation over several months.

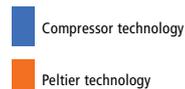
Temperature-humidity working range HPP



Comparison between compressor and Peltier technology



Reduction in energy consumption
of up to 90 %



By the way: the Memmert customisation department has already developed different customised models in cooperation with industry experts, for example as an appliance that tests the melting behaviour of ice cream. Contact us at myAtmoSAFE@memmert.com

Technical data of the Memmert constant climate chambers HPP

| Model sizes | HPP110 | HPP260 | NEW HPP400 | HPP750 | NEW HPP1060 | NEW HPP1400 | NEW HPP2200 |
|--|-------------------|--------------|--------------|---------------|----------------|----------------|----------------|
| Volume approx. l | 108 | 256 | 384 | 749 | 1060 | 1360 | 2140 |
| External dimensions (WxHxD) mm | 745x864x656 | 824x1183x756 | 824x1720x756 | 1224x1726x856 | 1224x1661x1107 | 1435x1913x1007 | 2157x1913x1907 |
| Setting temperature range °C without light, without humidity | 0 to +70* | | | | +15 to +60* | | |
| Setting temperature range °C without light, with humidity | +5 to +70* | | | | +15 to +60* | | |
| Setting range humidity % rh without light/ with light | 10 to 90/10 to 85 | | | 10 to 90/- | | 10 to 80/- | |

* Working-temperature range at least 20/10 °C (HPP110 – 1060/HPP1400 – 2200) below ambient temperature, Deviation with light (HPP110 – 750)

For detailed technical data, please see the Memmert climate chamber brochure or visit www.memmert.com/en/hpp.



www.memmert.com | www.atmosafe.net

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