

Varmeskabe

Inkubatorer, klimaskabe, vandbade



Buch & Holm - Memmert magasin 2023

KEEP COOL.
WE CARE

for you,
for us,
for the environment,
for the company.

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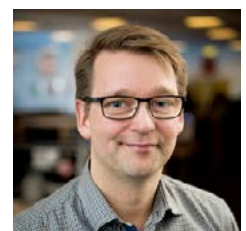
Worldwide Leader in Technology

Since its founding days in 1947 strong relations with customers around the globe has been one of the reasons for the success story of the Memmert brand and for becoming one of the leading suppliers of temperature control appliances for the lab. Memmert's most important objective in research and development has been controlled atmosphere, which means all parameters are controlled with the utmost precision. Inseparably linked to this are reliability, optimum temperature homogeneity and stability, user friendliness and an outstanding price/performance ratio.

For more information please contact Bo Deckers Skibild

memmert
Experts in Thermostatics

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Product Manager
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“Memmert’s climate chamber saves more than a laptop!”

71 Watt*



80 Watt



* Climatic point 25 ° C / 40% rH



Advanced Peltier Technology - efficient, sustainable and powerful

With the minimal energy requirements of the innovative Memmert Advanced Peltier Technology, users not only save considerable operation costs, but also work sustainably without compromising performance.

Incidentally, Memmert has its own department for regular performance analyzes. The focus is on the real performance of the series devices and their continuous further development.

Memmert: Quality and performance with tradition

The long-established German company, Memmert has been an expert in the field of controlled atmospheres for 80 years. The brand has introduced innovative Peltier climate chambers to great success for over 20 years.

With the current HPPeco series, the unique Advanced Peltier Technology has been greatly expanded into the 110 liter to 2140 liter model lineup, thus guaranteeing the right solution for all requirements.



The detailed performance data sheet for the HPP750eco can be viewed at:
www.memmert.com/technology-comparison

ADVANCED PELTIER TECHNOLOGY

Are you looking for a new climate chamber for stability tests?

Contact us by mail for individualized service at
▶ sales@memmert.com

save resources



save energy



use unique technology



save money



CLIMATE CHAMBERS

Storing, climate testing, conditioning, stability testing, photostability testing.

Each Memmert climate chamber delivers a crucial point in stability and climate tests, conditioning or ageing: homogenous as well as stable temperature and humidity distribution over the entire chamber.

All Memmert climate chambers offer digitally controlled active humidification and dehumidification, thus providing a perfect environment for stability testing in pharmaceuticals, cosmetics or food industry as well as climate and temperature testing in the electronics, chemical or automotive production.

Constant Climate Chambers HPPeco

- 7 model sizes: 108, 256, 384, 749, 1060, 1360 and 2140 litres
- TwinDISPLAY
- Temperature range 0 °C up to +70 °C
- Digitally controlled active humidification and dehumidification 10 to 90 % rh
- Heating and cooling based on unique Advanced Peltier Technology
- Reduced power consumption – no compressor
- Hardly any vibration and noise
- Double doors (inside glass, outside stainless steel)
- Optional with LED light



Humidity Chambers HCP

- 4 model sizes: 56, 107, 156 and 241 litres
- TwinDISPLAY
- Temperature range +18 °C up to +90 °C
- Digitally controlled active humidification and dehumidification 20 to 95 % rh
- 6 side heating incl. heated inner glass door: short recovery times, avoiding condensation
- Double doors (inside glass, outside stainless steel)



Climate Chambers ICH / ICHeco

- 3 model sizes: 108, 256 and 749 litres
- winDISPLAY
- Temperature range +10 °C up to +60 °C with humidity, -10 °C up to +60 °C without humidity
- Digitally controlled active humidification and dehumidification 10 to 80 % rh
- Double doors (inside glass, outside stainless steel)
- Models ICH L with illumination unit
- Models ICH C with CO₂ control
- ICHeco: with natural and climate-friendly refrigerant CO₂ (R744), improved cooling capacity, nearly maintenance free



Environmental Test Chambers CTC / TTC

- Model size: 256 litres
- Temperature range +10 °C up to +95 °C with humidity, -42 °C up to +190 °C without humidity
- Digitally controlled active humidification and dehumidification 10 to 98 % rh (only CTC)
- Temperature change rate in cooling operation (acc. to IEC 60068-3-5) 3 K/min (+180 °C to -40 °C)
- Temperature change rate in heating operation (acc. to IEC 60068-3-5) 10 K/min (-40 °C to +180 °C)
- Automatic defrosting system provided for the evaporator



WATERBATHS

Drying, heating, ageing, testing, sterilising, burning-in, curing, storing.

In 1947 the first ever Memmert oven, a hot air steriliser, was built for the Red Cross. Ever since then, the Memmert range of heating and drying ovens has grown into a versatile line-up of extremely precise and reliable high quality temperature control appliances.

Designed to make the lab staff's day-to-day work easier and more efficient, Memmert heating and drying ovens offer the utmost level of user friendliness. From material testing labs to electronic production, from fire brigades to opera houses, from pharmaceutical research to hospitals, these state-of-the-art ovens connect to the world.

Waterbaths WTB

- 6 model sizes: 7, 10, 17, 23, 37 and 51 litres
- Temperature range up to +100 °C
- Flat and gable cover, bottom shelf reversible, shaking device available as accessory
- Peltier-cooling device available



HEATING AND DRYING OVENS

Drying, heating, ageing, testing, sterilising, burning-in, curing, storing.

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Universal Ovens U

- 9 model sizes from 32 litres to 1060 litres
- 2 model variants: SingleDISPLAY or TwinDISPLAY
- Temperature range up to +300 °C
- All-round heating on all 4 sides for excellent temperature homogeneity
- Natural convection (N) or forced air circulation (F)
- Paraffin Oven UNpa: temperature range up to +80 °C; interior chamber almost gas tight for avoiding oily residues in tiny cavities



Pass-through Ovens UF TS

- 4 model sizes: 161, 256, 449 and 749 litres
- TwinDISPLAY
- Temperature range up to +250 °C
- All-round heating on all 4 sides for excellent temperature homogeneity
- For 2-sided loading (door front and back)
- Forced air circulation



Vacuum Ovens VO

- 3 model sizes: 29, 49 and 101 litres
- TwinDISPLAY
- Temperature range up to +200 °C
- Pressure range: 5 to 1100 mbar
- Digital electronic pressure control
- Thermoshelves can be controlled separately (Multi-Level-Heating)
- Multifunctional fuzzy-supported control
- Control and logging software AtmoCONTROL
- VOcool with cooling unit: temperature range +5 °C up to +90 °C



KEEP COOL.
WE CARE for
the environment.



World|im|pr|ov|er
optimise theirselves first.

INCUBATORS

Microbiological testing, incubating, cultivating.

Microbial and especially cell cultures are extremely sensitive to fluctuations in their surrounding microclimate. The slightest swing of environmental parameters can jeopardise the results of an experiment. Therefore each Memmert incubator was designed for long-term stability of temperature, humidity and carbon dioxide.

Like a well-tuned engine the control systems in a Memmert incubator are perfectly balanced between swift and smooth operation. Each incubator precisely keeps the desired parameters in the entire working chamber within the smallest tolerance limits.

Incubators I

- 8 model sizes from 32 litres to 749 litres
- 2 model variants: SingleDISPLAY or TwinDISPLAY
- Temperature range up to +80 °C
- All-round heating on all 4 sides for excellent temperature homogeneity
- Natural convection (N) or forced air circulation (F)
- Double doors (inside glass, outside stainless steel)



Peltier-cooled Incubators IPPeco

- 9 model sizes: 32 litres to 2140 litres
- 2 model variants: SingleDISPLAY or TwinDISPLAY
- Temperature range 0 °C up to +70 °C
- Heating and cooling based on unique Advanced Peltier Technology
- Reduced power consumption – no compressor
- Hardly any vibration and noise
- Double doors (inside glass, outside stainless steel)
- Optional with LED light



Compressor-cooled Incubators ICP / ICPeco

- 4 model sizes: 108, 256, 449 and 749 litres
- TwinDISPLAY
- Temperature range -12 °C up to +60 °C
- Air jacketed temperature control system
- Double doors (inside glass, outside stainless steel)
- ICPeco: with natural and climate-friendly refrigerant CO₂ (R744), improved cooling capacity, nearly maintenance free



CO₂ Incubators ICO

- 4 model sizes: 56, 107, 156 and 241 litres
- TwinDISPLAY
- Temperature range up to +50 °C
- Humidity range 40 to 97 % rh (active and passive control available)
- Standard sterilisation programme: 60 minutes at 180 °C (without removing sensors)
- 6 side heating incl. heated inner glass door: short recovery times, avoiding condensation



**KEEP COOL.
WE CARE for you.**

VISION GREENLAB

Climate protection
is part
of our DNA

1 Vacuum oven VO

Saves around 70 % energy thanks to a speed-controlled pump

Energy-efficient speed control significantly reduces operating costs and extends diaphragm life. Our measurements showed energy savings of around 70 % compared to uncontrolled vacuum pumps.

2 ICHeco and ICPeco

The climate-friendly Memmert CO₂ cooling conquers the lab

The GWP (Global Warming Potential) value compares the effects of substances on the greenhouse effect. The refrigerant CO₂ (R744) used in ICHeco/ICPeco devices has a GWP value of 1 and thus proves to be climate-neutral.

1



2



Environmental protection in practice



3 Constant climate chamber HPP

Peltier-controlled XXL units with a volume of up to 2,200 litres

Memmert enters new dimensions with the XXL devices. With an interior volume of around 2,200 litres, the largest climatic chamber has been built to operate without the energy-intensive use of refrigeration compressors and conventional heating.

4 Peltier-cooled incubator IPP

The first device with the Peltier heating/cooling concept from Memmert

In the past, Peltier elements were used in coolers or small laboratory measuring instruments. In 2000, Memmert adapted Peltier technology for the first time for a laboratory device with high performance: Heating and cooling with a single system without compressors and thus refrigerants.

MEDICAL DEVICES

Heating, tempering, sterilising, cultivating, in-vitro fertilising.

The products on the following two pages are classified as medical device (class I, IIa and IIb). Memmert medical devices can be found in clinics, doctors' practices and pharmacies. Especially in emergency trauma rooms, the blanket warmers are used to preheat blankets and cloths.

In the incubators you can be certain that bacteria cultures and cell cultures are incubated most gently and without any temperature overshoots. It is the hard-lined commitment to quality that has made Memmert a reliable partner in the medical sector and medical research industry. Of course Memmert is DIN EN ISO 13485 certified since many years.

Universal Ovens Um

- 9 model sizes from 32 litres to 1060 litres
- 2 model variants: SingleDISPLAY or TwinDISPLAY
- Temperature range up to +300 °C
- All-round heating on all 4 sides for excellent temperature homogeneity
- Natural convection (N) or forced air circulation (F)
- Medical device class I'



Incubators Im

- 8 model sizes from 32 litres to 749 litres
- 2 model variants: SingleDISPLAY or TwinDISPLAY
- Temperature range up to +80 °C
- All-round heating on all 4 sides for excellent temperature homogeneity
- Natural convection (N) or forced air circulation (F)
- Double doors (inside glass, outside stainless steel)
- Medical device class I'



Sterilisers S

- 8 model sizes from 32 litres to 749 litres
- 2 model variants: SingleDISPLAY or TwinDISPLAY
- Temperature range up to +250 °C
- All-round heating on all 4 sides for excellent temperature homogeneity
- Natural convection (N) or forced air circulation (F)
- Medical device class IIb²



CO₂ Incubators ICOfed

- 4 model sizes: 56, 107, 156 and 241 litres
- TwinDISPLAY
- Temperature range up to +50 °C
- Humidity range 40 to 97 % rh (active and passive control available)
- Standard sterilisation programme: 60 minutes at 180 °C (without removing sensors)
- 6 side heating incl. heated inner glass door: short recovery times, avoiding condensation
- Medical device class IIa²



Blanket Warmer IFbw

- 4 model sizes: 108, 256, 449 and 749 litres
- SingleDISPLAY
- Temperature range up to +80 °C
- All-round heating on all 4 sides for excellent temperature homogeneity
- Forced air circulation
- Door-open-recognition
- Medical device class I'





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LABORATORY AUTOMATION AT ITS BEST

Evolutionary equipment to meet your automation needs.
Are you ready to take the leap?

Creative innovation put to daily practice

The modern laboratory requires safe, efficient, and productive devices that meet the demands of today's technicians and researchers. To do just that and more, m360 welcomes you to its latest innovation: a customized constant climate chamber, HPP450eco, in connection with laboratory automation.



Collaborative robot controlled via tablet, loads and unloads items automatically with grippers

LED lighting with wide color spectrum - cold white, warm white, RGB and UV-A

32-plate conveyor belt with positioning accuracy of $\pm 1\text{mm}$, tracking via RFID technology



How laboratory automation fits your process

Individually made for users who value process optimization of laboratory applications. With the iconic strengths of Memmert products, this device enables precise temperature and humidity control. Through our automation solution, we guarantee continuous monitoring of all samples throughout the process, combined with unsurpassed efficiency. Advanced safety measures ensure operations run smoothly to meet the expectations of modern industries and research facilities.



The laboratory automation device solves existing issues with speed, consistency, monitoring, safety, human error and so much more in the modern workplace. By integrating itself into an existing laboratory, researching and implementing creative tasks is improved.

- Simon Messthaler, Project Manager at m360

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