

Models VO400cool

Standard delivery vacuum oven

The direct contact between the load and the heatable thermoshelves in the chamber of the vacuum oven ensures rapid and uniform temperature control of food, cosmetics, watches, books, PCBs or [injection moulds](#), without the loss of heat.

On this page, you can find all the essential technical data on our [vacuum drying oven](#). 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.



Control

- ▶ fuzzy-supported MLC (Multi-Level-Controlling) microprocessor controller adapting its performance to the volume (local [temperature sensing](#))
- ▶ temperature measured through 4-wire Pt100 sensor
- ▶ self-diagnostics for fault analysis
- ▶ digital 7-day programme timer with [real time clock](#), precise minute setting, for one set value or start of ramp operation
- ▶ integrated timer for tempering and pressure (vacum) profiles of up to 40 ramps, parameters time, pressure and temperature (setpoint dependent) individually adjustable for each segment from 1 min. up to 99 hrs
- ▶ multifunctional programming via menu on 8-digit alphanumeric [digital display](#) (language to be chosen via set-up)
- ▶ digital display of all set parameters, such as temperature, weekdays, time, pressure, programe status and set-up values
- ▶ LED-symbol for thermoshelf in operation
- ▶ digital display of actual temperature
- ▶ resolution of display for setpoint values 0,1°C
- ▶ resolution of display for actual values 0.1°C
- ▶ calibration facility through controller for three freely selectable temperature and pressure values
- ▶ integrated ring memory as [data logger](#) for GLP-conforming long-term documentation of all relevant parameters - 1024 kB
- ▶ programme stored in case of power failure
- ▶ USB-interface incl. Memmert software "Celsius" for programming and documentation of temperature and pressure
- ▶ chip-card control incl. 1 MEMoryCard XL with 32 kB storage capacity (max. 40 ramps)
- ▶ incl. works [calibration certificate](#) for +50°C/50 mbar

Vacuum Control

- ▶ digital electronic pressure control through [solenoid valves](#)
- ▶ adjustment range from 10 mbar to 1100 mbar - digital (LED)
- ▶ setting accuracy 1 mbar
- ▶ digital display of actual pressure from 5 mbar up to 1100 mbar
- ▶ one programmable, digitally controlled inlet for air
- ▶ rapid air intake for door opening (door is blocked under vacuum) - programme reactivation at stored values

- ▶ vacuum drying process (vacuum cycles) is continued after power failure
- ▶ works calibration certificate for +50°C at 50 mbar pressure

Multiple Overtemperature Protection

- ▶ additional digitally adjustable, electronic micro-processor overtemperature monitor TWW, protection class 3.3 - (max-value for overtemperature, min-value for undertemperature)
- ▶ 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 is switched off in case of overtemperature
- ▶ resolution of display/setting accuracy 0.5°C
- ▶ automatic overtemperature protection following the setpoint-value and switching the heating off at about 3°C above setpoint value in case of failure
- ▶ mechanical temperature limiter TB, protection class 1 according to DIN 12 880 to switch off the heating approx. 20°C above nominal temperature

Textured Stainless Steel Casing

- ▶ w x h x d: 550 x 680 x 730 mm
- ▶ full-sight glass door, inside spring-loaded, 15 mm thick glazed panel in safety glass, outside with anti-splitter screen
- ▶ rear zinc-plated steel

Interior - Heating Concept

- ▶ w x h x d: 385 x 385 x 330, 49 l
- ▶ hermetically welded stainless steel interior of extremely corrosion-resistant stainless steel, material 1.4404
- ▶ additional interior mountings of stainless steel, material 1.4404. consisting of mounting at the sides with guide bars for thermoshelves and on top (diffusor) to avoid turbulences when aerating
- ▶ all tubings made of stainless steel, material no. 1.4571
- ▶ 1 thermoshelf of aluminim, material 3.3547 (ASTM B209) with integrated large-area heating and cooling, in lowest position (cannot be removed)
- ▶ Max. loading of chamber: 20 kg

Temperature Range

- ▶ from +5°C up to +90°C

Voltage / Power Rating

- ▶ 230 V (+/- 10%), 50/60 Hz / approx. 500 W

Packing Data

- ▶ net weight approx. 92 kg
- ▶ gross weight carton approx. 106 kg
- ▶ dimensions approx.:
carton w x h x d: 67 x 78 x 88 cm
- ▶ the appliances must be transported upright

Customs Tariff Number

- ▶ 8419 8998

Country of Origin

- ▶ Federal Republic of Germany

WEEE-Reg.-No.

- ▶ DE 66812464
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