

Product specification

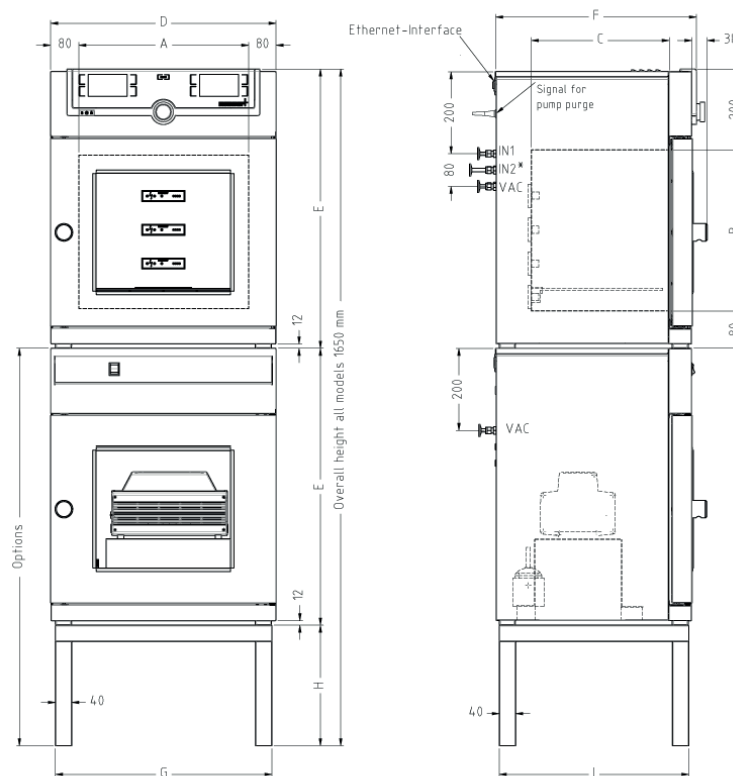
Vacuum oven

VO49

Digital pressure control ensures rapid and gentle vacuum drying. Its speed-controlled vacuum pump (accessory) saves around 70% energy.



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



* inert gas inlet only for VO49, VO101 with Premium module

Temperature

Setting accuracy temperature up to 99.9 °C: 0.1 / from 100 °C: 0.5

Setting temperature range +20 to +200 °C

Temperature sensor temperature measured through 4-wire Pt100 sensor individually for each thermoshelf

Working temperature range min. 5°C above ambient up to +200°C

Pressure (Vacuum)

Vacuum range 5 to 1100 mbar

Pressure control Digital electronic pressure control for a speed-controlled vacuum pump. Tubing for vacuum, air and inert gas are made of material 1.4571 (ASTM 316 Ti). Programmable, digitally controlled inlet for air.

Permitted final vacuum 0.01 mbar

Maximum leakage rate 0.01 bar/h

Pump control speed control, optimised rinsing procedures for the pump membranes as well as signal output for pump ON/OFF

Connection Vacuum connection with small flange DN16, and gas inlet with fresh air supply

Control technology

adjustable parameters temperature (Celsius or Fahrenheit), pressure (vacuum), programme time, time zones, summertime/wintertime

Language setting German, English, Spanish, French, Polish, Czech, Hungarian, Italian

ControlCOCKPIT TwinDISPLAY. Adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-colour displays.

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

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 mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 10°C above nominal temperature

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 is switched off in case of overtemperature, compressor in case of undertemperature

Autodiagnostic system integral fault diagnostics for temperature control

Alarm visual and acoustic

Heating concept

| | |
|--------------------------|---|
| VO direct heating | fuzzy-supported MLC (Multi-Level-Controlling) microprocessor controller adapting its performance to the volume (local temperature sensing) for each thermoshelf |
| Thermoshelves | 2 connections for thermoshelves in the rear (1st and 3rd level) |

Standard equipment

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|--------------------------------------|--|
| Works calibration certificate | for +160°C at 20 mbar pressure for each supplied thermoshelf together with the vacuum oven |
| Internals | 1 thermoshelf of aluminum, material 3.3547 (ASTM B209) with integrated large-area heating |

Stainless steel interior

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| Material | Hermetically welded stainless steel interior of extremely corrosion-resistant stainless steel, material 1.4404 |
| Interior | additional interior mountings of stainless steel, material 1.4404 (removable for cleaning), consisting of mounting at the sides with guide bars for thermoshelves and on top (diffusor) to avoid turbulences when aerating |
| Volume | 49 l |
| Dimensions | $w_{(A)} \times h_{(B)} \times d_{(C)}$: 385 x 385 x 330 mm |
| Max. number of internals | 2 |
| Max. loading of chamber | 60 kg |
| Max. loading per internal | 20 kg |

Textured stainless steel casing

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|-------------------|--|
| Dimensions | $w_{(D)} \times h_{(E)} \times d_{(F)}$: 550 x 687 x 480 mm (d +38mm door handle) |
| Door | full-sight glass door, inside spring-loaded, 15 mm thick glazed panel in safety glass, outside with anti-splitter screen |
| Housing | rear zinc-plated steel |

Electrical data

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| Voltage | Electrical load (maximally equipped) at 230 V, 50/60 Hz |
|----------------|---|

Ambient conditions

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|-----------------------------|---|
| Ambient temperature | +5 °C to +40 °C |
| Set Up | The distance between the wall and the rear of the chamber must be at least 15 cm. The clearance from the ceiling must not be less than 20 cm and the side clearance from the wall must not be less than 8 cm. |
| Humidity rh | max. 80 %, non-condensing |
| Overvoltage category | II |
| Pollution degree | 2 |

Packing/shipping data

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|---------------------------------------|--|
| 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: 670 x 890 x 630 mm |
| Net weight | approx. 83 kg |
| Gross weight carton | approx. 104 kg |

Standard units are safety-approved and bear the test marks



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