

Vacuum Ovens

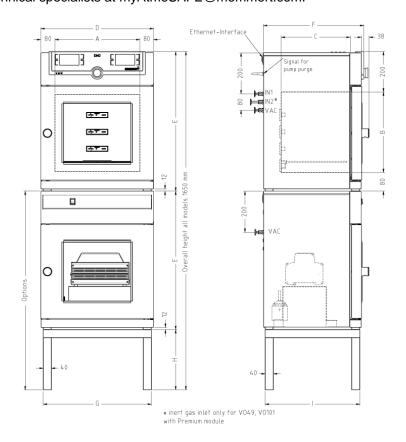
VO29

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.

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.



Temperature Setting accuracy temperature 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 inert gas are made of material 1.4571 (ASTM 316 Ti). Programmable, digitally controlled inlet for permitted final vacuum 0.01 mbar Maximum leckage rate 0.01 bar/h	
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Pump control speed control, optimised rinsing procedures for the pump membranes as well as signal output pump ON/OFF	or
Connection Vacuum connection with small flange DN16, and gas inlet with small flange DN16	
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-definit TFT-colour displays.	ion
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 program via Ethernet interface or USB port	mes
Safety	
Temperature control mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the approx. 10°C above nominal temperature	heating
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 switched off in case of overtemperature, compressor in case of undertemperature	

He	ating	con	cept

VO direct heating	fuzzy-supported MLC (Multi-Level-Controlling) microprocessor controller adapting its performance to the volume (local temperature sensing) for each thermoshelf	
Thermoshelves 1 connection for thermoshelves in the rear		

Standard equipment

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

Stainless steel interior

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	29
Dimensions	w _(A) x h _(B) x d _(C) : 385 x 305 x 250 mm
Max. number of internals	2
Max. loading of chamber	40 kg
Max. loading per internal	20 kg

Textured stainless steel casing

Dimensions	w _(D) x h _(E) x d _(F) : 550 x 607 x 400 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

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

Ambient conditions

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 class from the ceiling must not be less than 20 cm and the side clearance from the wall must not than 8 cm.	
Humidity rh	max. 80 %, non-condensing
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-RegNo.	DE 66812464
Dimensions approx incl. carton	w x h x d: 660 x 870 x 590 mm
Net weight	approx. 55 kg
Gross weight carton	approx. 76 kg

Standard units are safety-approved and bear the test marks

