

Vacuum oven

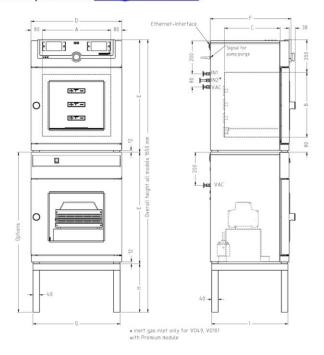
VO29

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 sales@memmert.com.





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Temperature Setting accuracy temperature Setting temperature range +20 to +200 °C Temperature sensor with the perature measured through 4-wire Pt100 sensor individually for each thermoshelf Working temperature range min. 5°C above ambient up to +200°C

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 zo 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 programme 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	CONCO	nt
Heating	COLICE	νı

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 $w_{(D)} \times h_{(E)} \times d_{(F)}$: 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

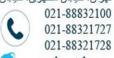
nally equipped) at 230 V, 50/60 Hz

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 clearance from the ceiling must not be less than 20 cm and the side clearance from the wall must not be less	
		ce from the wall must not be less
11	than 8 cm.	
Humidity rh	max. 80 %, non-condensing	ت ابنار طب
Overvoltage category	II	ت ابزار طب د کننده نجیرات
Pollution degree	2	گاهی - تحلیقاتی - علمی سیس ۱۳۶۳



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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











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