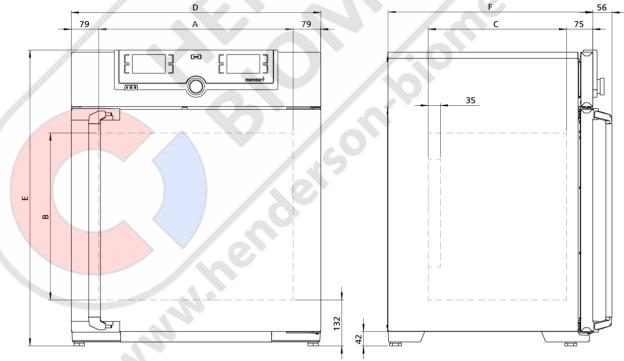


ICO105

Safety at all times: High-end functions for the protection of cell cultures, bacteria cultures or tissue cultures.



On this page, you can find all the essential technical data on the Memmert CO₂ incubator ICO. 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.



Temp	eratı	ıre
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Working-temperature range	5 °C above ambient temperature up to +50 °C
	Standard sterilisation programme: 60 minutes at 180°C (without removing the sensors)
Setting temperature range	+18 to +50 °C
Setting accuracy	0.1 °C
temperature	
Temperature sensor	2 Pt100 sensors DIN Class A in 4-wire-circuit for mutual monitoring, taking over functions in case of an
	error
Temperature variation in	at + 37 °C +/- 0.3 K
chamber	
Temperature fluctuations	at 37 °C +/- 0.1 K
with time	

Humidity

Humidity control (standard)	Humidity limitation thanks to a Peltier element; when water dish is full and inserted, the Peltier element limits the value of relative humidity in the interior to $93 \% \text{ rh}$ +/- 2.5%
Setting accuracy humidity	0.5 % rh
Setting range active humidity control (with option K7)	40 to 97 % rh and rh-Off

Control of standard components

CO ₂ control	Digital electronic CO ₂ control with dual beam NDIR system, with auto-diagnostic system and acoustic fault indication, barometric pressure compensation
Adjustment range CO ₂	0 to 20 % CO ₂
Setting accuracy CO ₂	0,1%
Variation in time CO ₂	+/- 0.2 % CO ₂
Adju <mark>stment</mark> range O <su<mark>b>2b></su<mark>	1 to 20 % O ₂
Setting accuracy O ₂	0.1 % O ₂

Control technology

ControlCOCKPIT	TwinDISPLAY. Adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-colour displays.
Language setting	German, English, Spanish, French, Polish, Czech, Hungarian
Function SetpointWAIT	the process time does not start until the set temperature is reached
Adjustable parameters	temperature (Celsius or Fahrenheit), CO ₂ , programme time, time zones, summertime/wintertime

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		
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	

function is switched off in case of overtemperature, cooling function in case of undertemperature

Heating concept

Alarm

Autodiagnostic system

6 sides large-area multi-function heating system on four sides with additional door and back heating to avoid condensation

integral fault diagnostics for temperature and CO2

visual and acoustic

Standard equipment

Works calibation certificate	Works calibration certificate at +37 °C, 5 % CO ₂ and 90 % rh (requires option K7); standard equipmen for units with active humidity control	
Works calibation certificate	Works calibration certificate at +37 °C, 5 % $\rm CO_2$, 90 % rh and 10 % $\rm O_2$ (requires option K7 and option T6); standard equipment for units with $\rm O_2$ control	
Works calibation certificate	incl. works calibration certificate (measuring point chamber centre) at +37°C, 5 % CO ₂ for standard units	
Door	fully insulated stainless steel door with 2-point locking (compression door lock)	
Door	inner glass door with opening (8 mm Ø) to take gas sample	
Standard equipment	CO ₂ connection set: hose with coupling and clamp	
Stan <mark>dard acc</mark> essories	Membrane filter (in order to remove impurities and pollutants, all incoming gases pass through a membrane filter before they reach the chamber)	
Internals	2 perforated stainless steel shelf/shelves	
Internals	1 stainless steel water dish	

Stainless steel interior

Dimensions	w _(A) x h _(B) x d _(C) : 560 x 480 x 400 mm (d less 35 mm for fan)
Interior	material 1.4301 (ASTM 304), corrosion resistant
Volume	107
Max. number of internals	6
Max. loading of chamber	90 kg
Max. loading per internal	15 kg

Textured stainless steel casing

Dimensions	w _(D) x h _(E) x d _(F) : 719 x 850 x 591 mm (d +56mm door handle)
Housing	rear zinc-plated steel

Electrical data

Voltage Electrical load	230 V, 50/60 Hz approx. 1300 W	
Voltage Electrical load	115 V, 50/60 Hz approx. 1300 W	

Ambient conditions

Set Up	The distance between the wall and the rear of the appliance must be at least 15 cm. The clearance from the ceiling must not be less than 20 cm and the side clearance from walls or nearby appliances must not be less than 5 cm.
Ambient temperature	10 °C to 35 °C
Humidity rh	max. 70 %, non-condensing
Altitude of installation	max. 2,000 m above sea level
Overvoltage category	
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: 800 x 1030 x 800 mm
Net weight	approx. 75 kg
Gros <mark>s weight</mark> carton	approx. 100 kg

Standard units are safety-approved and bear the test marks









LABORATORY EQUIPMENT MAINTENANCE, REPAIR, CALIBRATION AND SALES

Established in 1987, Henderson Biomedical is the UK's leading laboratory equipment sales and service provider. Our knowledgeable team can provide you with excellent sales advice on a range of different types of laboratory equipment including centrifuges, refrigerators, freezers and heat sealers.

Henderson Biomedical is also able to provide you with first class after-sales service and calibration of your laboratory equipment. We are an **ISO 17025 (UKAS) accredited calibration test laboratory** and our team of Field Service Engineers cover the whole of the United Kingdom.

Please contact us for more information on the types of equipment we supply and the different after-sales services we can offer.

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