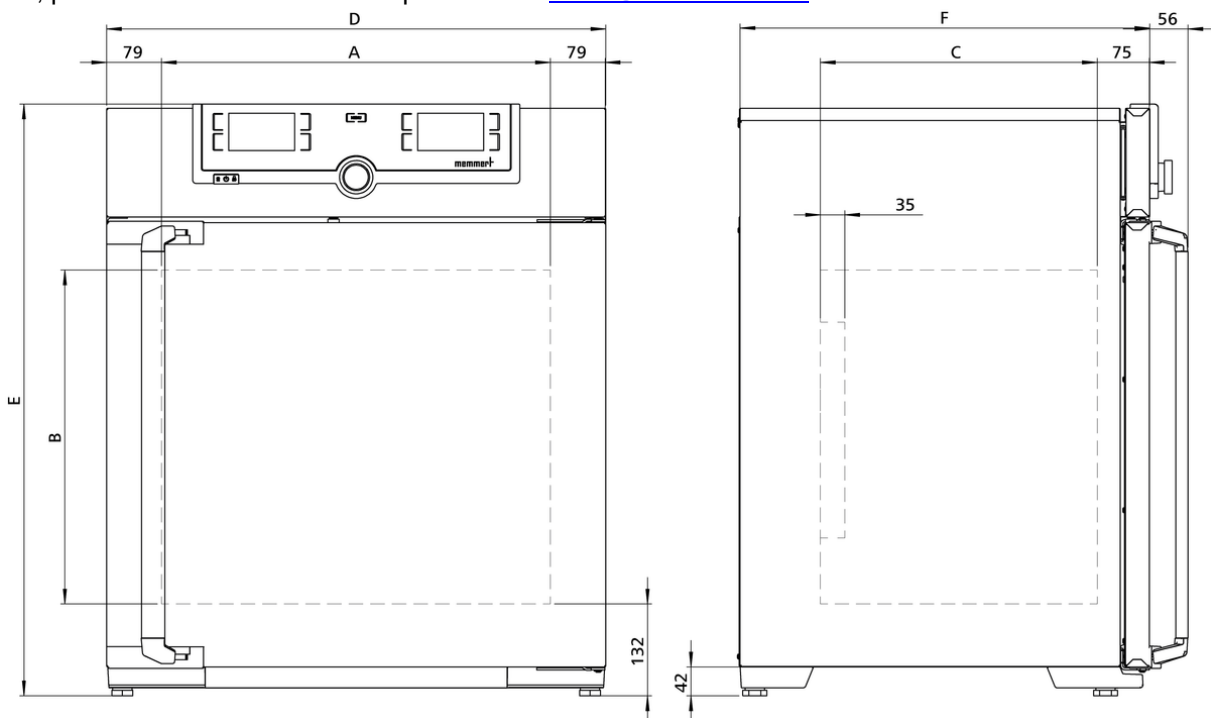


CO₂ incubator ICO105

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.



Temperature

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 temperature	0.1 °C
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 chamber	at + 37 °C +/- 0.3 K
Temperature fluctuations with time	at 37 °C +/- 0.1 K

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 % 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

CO₂ control	Digital electronic CO ₂ control with dual beam NDIR system, with auto-diagnostic system and acoustic fault indication, barometric pressure compensation
Adjustment range CO₂	0 to 20 % CO ₂
Setting accuracy CO₂	0,1%
Variation in time CO₂	+/- 0.2 % CO ₂
Adjustment range O₂	1 to 20 % O ₂
Setting accuracy O₂	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
Autodiagnostic system	integral fault diagnostics for temperature and CO ₂
Alarm	visual and acoustic

Heating concept

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

Standard accessories	Membrane filter (in order to remove impurities and pollutants, all incoming gases pass through a membrane filter before they reach the chamber)
Door	fully insulated stainless steel door with 2-point locking (compression door lock)
Internals	2 perforated stainless steel shelf/shelves
Works calibration certificate	incl. works calibration certificate (measuring point chamber centre) at +37°C, 5 % CO ₂ for standard units
Internals	1 stainless steel water dish
Door	inner glass door with opening (8 mm Ø) to take gas sample

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 l
Max. number of internals	6
Max. loading of chamber	90 kg
Max. loading per internal	15 kg

Textured stainless steel casing

Dimensions $w_{(D)} \times h_{(E)} \times d_{(F)}$: 719 x 850 x 591 mm (d +56mm door handle)

Housing rear zinc-plated steel

Electrical data

Voltage 230 V, 50/60 Hz

Electrical load approx. 1300 W

Voltage 115 V, 50/60 Hz

Electrical load 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 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-Reg.-No. DE 66812464

Dimensions approx incl. carton w x h x d: 800 x 1030 x 800 mm

Net weight approx. 75 kg

Gross weight carton approx. 100 kg

Standard units are safety-approved and bear the test marks

