

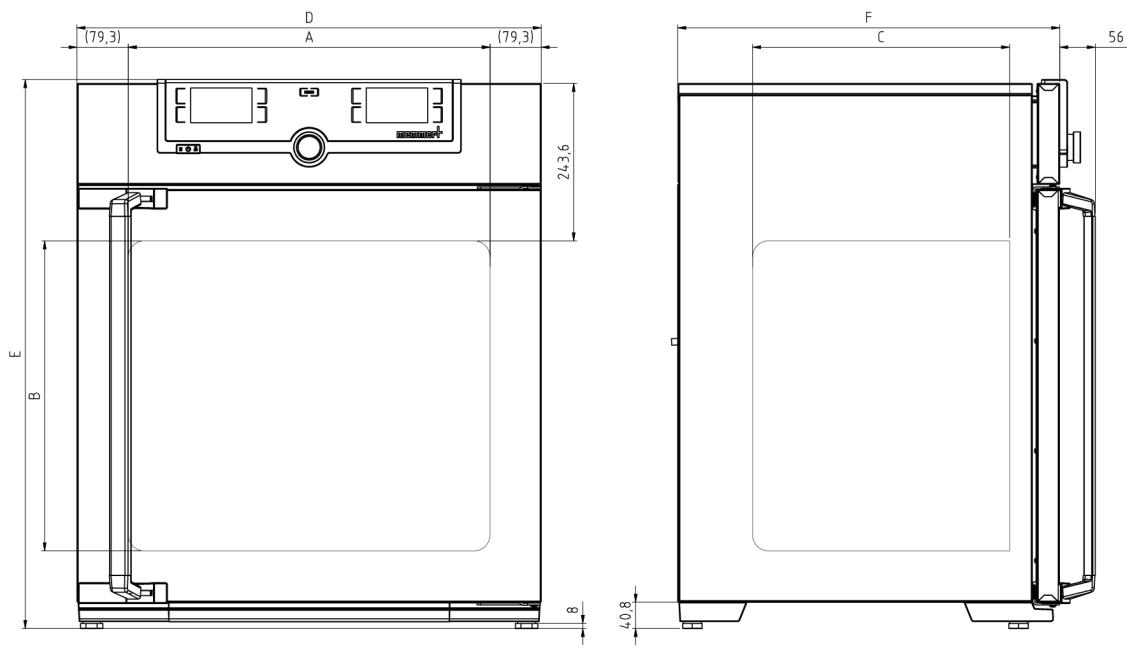


CO₂ Incubator ICO50

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 myAtmoSAFE@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	2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value

Humidity

Setting range active humidity control	40 to 97 % rh and rh-Off
Setting accuracy humidity	0.5 % rh
Humidity control	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 %

Control of standard components

CO2 control	Digital electronic CO2 control with dual beam NDIR system, with auto-diagnostic system and acoustic fault indication, barometric pressure compensation
Adjustment range CO2	0 to 20 % CO2
Variation in time CO2	+/- 0.2 % CO2
Adjustment range O2	1 to 20 % O2
Setting accuracy O2	0.1 % O2

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), fan speed, CO2, 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

Autodiagnostic system integral fault diagnostics for temperature, CO2 and humidity limit control

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

Standard equipment

Works calibration certificate °C & CO2 incl. works calibration certificate (measuring point chamber centre) at +37°C, 5 % CO2 for standard units

Works calibration certificate °C, CO2 & rH incl. works calibration certificate for +37°C, 5 % CO2 and 90 % rh (requires option K7); standard equipment for units with active humidity control

Works calibration certificate °C, CO2, rH & O2 incl. works calibration certificate for +37°C, 5 % CO2, 90 % rh and 10 % O2 (requires option K7 and option T6); Standard equipment for units with O2 control

Internals 1 pc stainless steel shelf, perforated

Internals 1 pc stainless steel water dish

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

Stainless steel interior

Interior material 1.4301 (ASTM 304), corrosion resistant

Volume 56 l

Dimensions W x H x D in mm $w_{(A)} \times h_{(B)} \times d_{(C)}$: 400 x 425 x 330 mm

Max. number of grids/shelves 5

Max. loading of chamber 75 kg

Max. loading per grid/shelf 15 kg

Textured stainless steel casing

Dimensions $w_{(D)} \times h_{(E)} \times d_{(F)}$: 559 x 791 x 521 mm

Housing rear zinc-plated steel

Electrical data

Voltage	230 V, 50/60 Hz
Electrical load	approx. 1000 W

Voltage	115 V, 50/60 Hz
Electrical load	approx. 1000 W

Packing/shipping data

the appliances must be transported upright

Customs tariff number	8419 8998
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Country of origin	Federal Republic of Germany
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WEEE-Reg.-No.	DE 66812464
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Dimensions approx incl. carton	B x H x T: 730 x 950 x 640 mm
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Net weight	approx. 55 kg
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Gross weight carton	approx. 74 kg
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Standard units are safety-approved and bear the test marks

