

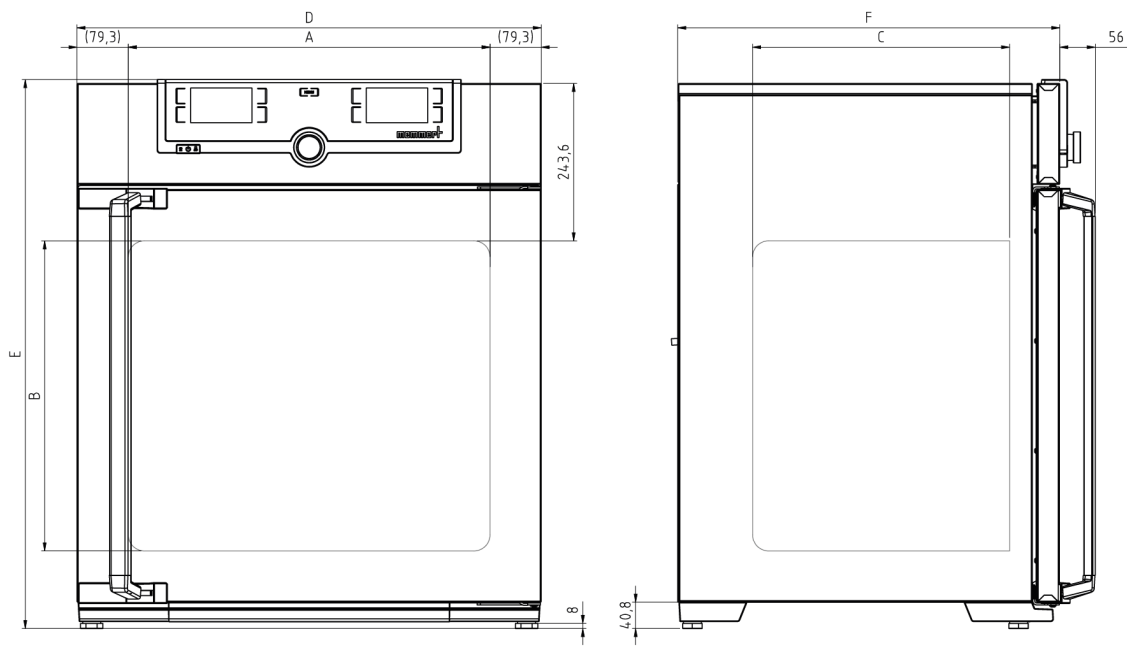


## CO<sub>2</sub> Incubator ICO50

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 CO<sub>2</sub> 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](mailto:myAtmoSAFE@memmert.com).



## Control of standard components

<b>Temperature</b>	2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value
<b>CO2 control</b>	Digital electronic CO2 control with dual beam NDIR system, with auto-diagnostic system and acoustic fault indication, barometric pressure compensation
<b>Adjustment range CO2</b>	0 to 20 % CO2
<b>Variation in time CO2</b>	+/- 0.2 % CO2
<b>ControlCOCKPIT</b>	adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-colour displays
<b>Humidity control</b>	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 %
<b>Setting range active humidity control</b>	40 to 97 % rh and rh-Off
<b>Setting accuracy humidity</b>	0.5 % rh
<b>Adjustment range O2</b>	1 to 20 % O2
<b>Setting accuracy O2</b>	0.1 % O2

## Temperature

<b>Working-temperature range</b>	5 °C above ambient temperature up to +50 °C Standard sterilisation programme: 60 minutes at 180°C (without removing the sensors)
<b>Setting temperature range</b>	+18 to +50 °C
<b>Setting accuracy temperature</b>	0.1 °C

## Control technology

<b>Function SetpointWAIT</b>	the process time does not start until the set temperature is reached
<b>Language setting</b>	German/English/Spanish/French

## Communication

<b>Documentation</b>	programme stored in case of power failure
<b>Programming</b>	AtmoCONTROL software on a USB stick for programming, managing and transferring programmes via Ethernet interface or USB port

## Safety

<b>Alarm</b>	visual and acoustic
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## Heating concept

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

## Standard equipment

<b>Internals</b>	1 pc stainless steel shelf, perforated
<b>Door</b>	inner glass door with opening (8 mm Ø) to take gas sample
<b>Door</b>	fully insulated stainless steel door with 2-point locking (compression door lock)
<b>Housing</b>	rear zinc-plated steel
<b>Interior</b>	material 1.4301 (ASTM 304), corrosion resistant
<b>Internals</b>	1 pc stainless steel water dish
<b>Scope of delivery</b>	incl. works calibration certificate (measuring point chamber centre) at +37°C, 5 % CO2 for standard units
<b>Scope of delivery</b>	incl. works calibration certificate for +37°C, 5 % CO2 and 90 % rh (requires option K7); standard equipment for units with active humidity control
<b>Scope of delivery</b>	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

## Stainless steel interior

<b>Max. loading of chamber:</b>	75 kg
<b>Dimensions W x H x D in mm</b>	$w_{(A)} \times h_{(B)} \times d_{(C)}$ : 400 x 425 x 330 mm
<b>Volume</b>	56 l

## Electrical data

<b>Voltage</b>	230 V, 50/60 Hz
<b>Electrical load</b>	approx. 1000 W
<b>Voltage</b>	115 V, 50/60 Hz
<b>Electrical load</b>	approx. 1000 W

## Packing/shipping data

<b>Dimensions approx incl. carton</b>	B x H x T: 730 x 950 x 640 mm
<b>the appliances must be transported upright</b>	
<b>Customs tariff number</b>	8419 8998
<b>Country of origin</b>	Federal Republic of Germany
<b>WEEE-Reg.-No.</b>	DE 66812464
<b>Net weight</b>	approx. 55 kg
<b>Gross weight carton</b>	approx. 74 kg

**Standard units are safety-approved and bear the test marks**

