

PRODUCT SPECIFICATION - ICO105

CO₂ Incubator ICO105



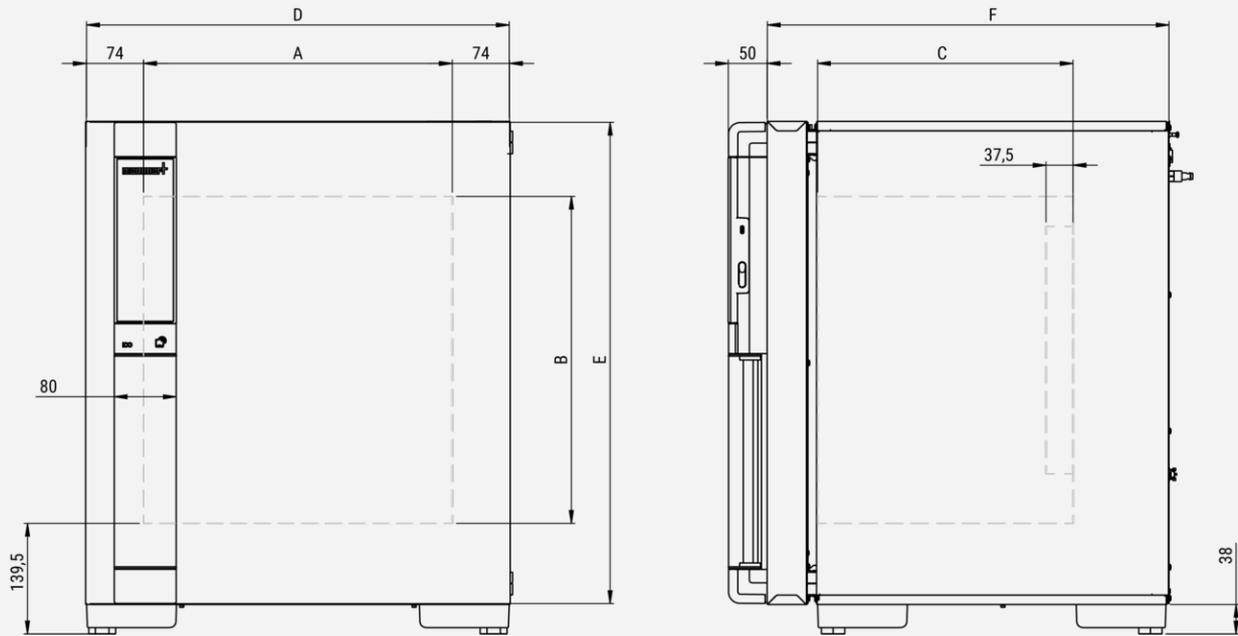
ICO CO₂ Incubator – The perfect environment for superior cell growth.

The Memmert ICO CO₂ incubator is designed to provide stable, homogeneous cultivation conditions for delicate cell cultures across research, development and clinical applications.

Precise temperature control, active humidification and dehumidification plus optimised airflow management ensure condensation-free stability inside the working chamber at 37 °C and 95 % RH.

Key Performance Features

- Condensation-Free at 37 °C / 95 % rH
- Modern Connectivity
- Memmert Quality
- ACT Label Certified



Temperature

Working temperature range	°C	at least 5 above room temperature to +50
Setting temperature range	°C	+20 to +50
Setting accuracy	°C	0.1
Spatial temperature variation	+37 °C K	± 0.3
Temporal temperature deviation	+37 °C K	± 0.1
Temperature control system		Large-area multi-zone multifunctional all-round heating with additional door, seal and rear wall heating

Humidity

Setting range	% rh	40 to 98 and rh-Off
Humidification system		<ul style="list-style-type: none"> • Passive humidification by means of an integrated water tank with condensate recirculation via a magnetically guided sealing lip. Humidity limitation via Peltier element. • Active closed-loop humidity control (option K7) with capacitive sensor for precise measurement and complete documentation. Humidification via self-priming micro-dosing pump with hot steam generation, dehumidification via powerful diaphragm pump.

CO₂

Setting range	% CO ₂	0 to 20
Temporal fluctuation	% CO ₂	± 0.2
CO ₂ control system		Precise CO ₂ control with dual-beam NDIR technology, integrated monitoring and pressure-compensated measurement. Filtered CO ₂ supply for high process reliability.

Features

Control unit		6.86" IPS touch display (480 × 1280 pixels) with multi-touch function for graphical display of actual/setpoint values and parameter curves.
Adjustable parameters		<ul style="list-style-type: none"> • Temperature • CO₂ • Relative humidity (requires option K7) • O₂ (requires option T6)
Adjustable device functions		<ul style="list-style-type: none"> • Time zones • Display brightness • DistanceView (1–4 freely selectable parameters, adjustable activation time) • Network settings (IP, subnet, DHCP) • Language and volume settings (buzzer/key tone) • Power failure behaviour • Timer Function
Language setting		English (standard), German, French, Spanish, Portuguese, Chinese, Arabic, Hindi, Polish, Czech, Hungarian, Russian, Italian, Serbian
Timer		<ul style="list-style-type: none"> • Timer - Process time starts immediately when the programme starts • Timer SetpointWAIT - Process time only starts after all setpoint values have been reached • Timer on Event - Process time starts at a defined point in time
Calibrate		Three freely selectable values for temperature, humidity and CO ₂
Interfaces		<ul style="list-style-type: none"> • USB-C • Ethernet LAN

Safety

Temperature monitoring		Dual Pt1000 sensor, DIN Class A, for mutual monitoring and automatic takeover in the event of a fault
Alarm		visual and acoustic
Behaviour during a power failure		<p><u>Manual mode:</u></p> <ul style="list-style-type: none"> • Power failure less than 24 hours: Active process is terminated, parameters remain stored. • Power failure longer than 24 hours: Operation continues with previously set parameters <p><u>Programme mode (power failure >1h):</u></p> <ul style="list-style-type: none"> • Failure less than 1 hour: programme continues with remaining runtime • Failure longer than 1 hour: programme is stopped; query required to continue

Standard equipment

Works calibration certificate		+37 °C, 5 %CO ₂
	Option K7	+37 °C, 5 %CO ₂ , 90 %rh
	Option T6	+37 °C, 5 %CO ₂ , 90 %rh, 10 %O ₂
Door		fully insulated stainless steel doors with 2-point locking (compression door lock) and inner glass door
Standard option		Door-open detection
Type standard insert		Stainless steel perforated shelf
Number of slide-in units		1
Other standard accessories		<ul style="list-style-type: none"> • CO₂ connection set, hose with connection coupling and hose clamp • Water dish • Wasserkanister inklusive Anschlussschlauch • Hinterlegtes Sterilisationsprogramm : 60 Minuten bei +180 °C (ohne Ausbau der Sensoren)

Stainless steel interior

Volume	l	108
Width	mm	560
Height	mm	480
Depth	mm	400
Max. number of grids/shelves	number	5
Max. loading of chamber	kg	75
Max. loading of grids/shelves	kg	15

Textured stainless steel casing

Width	mm	708
Height	mm	683
Depth	mm	589
Installation		4 adjustable appliance feet

Electrical data

Electrical load	230 V	W	1300
	115 V	W	1300

Ambient conditions

Ambient temperature		+10 to +35	
Air humidity		max. 70% non-condensing	
Altitude of installation		2000 metres above sea level	
Overvoltage category		II	
Pollution degree		2	
Distance to neighbouring appliances / wall clearances	top	mm	20
	back	mm	15
	lateral	mm	15

Packing/shipping data

Transportinformation		The appliances must be transported upright
Customs tariff number		8419 8998
Country of origin		DE
WEEE reg. no.		DE 66812464
Packaging	Width	mm 825
	Height	mm 967
	Depth	mm 815
Weight	Net	kg 70
	Gross	kg 85

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

