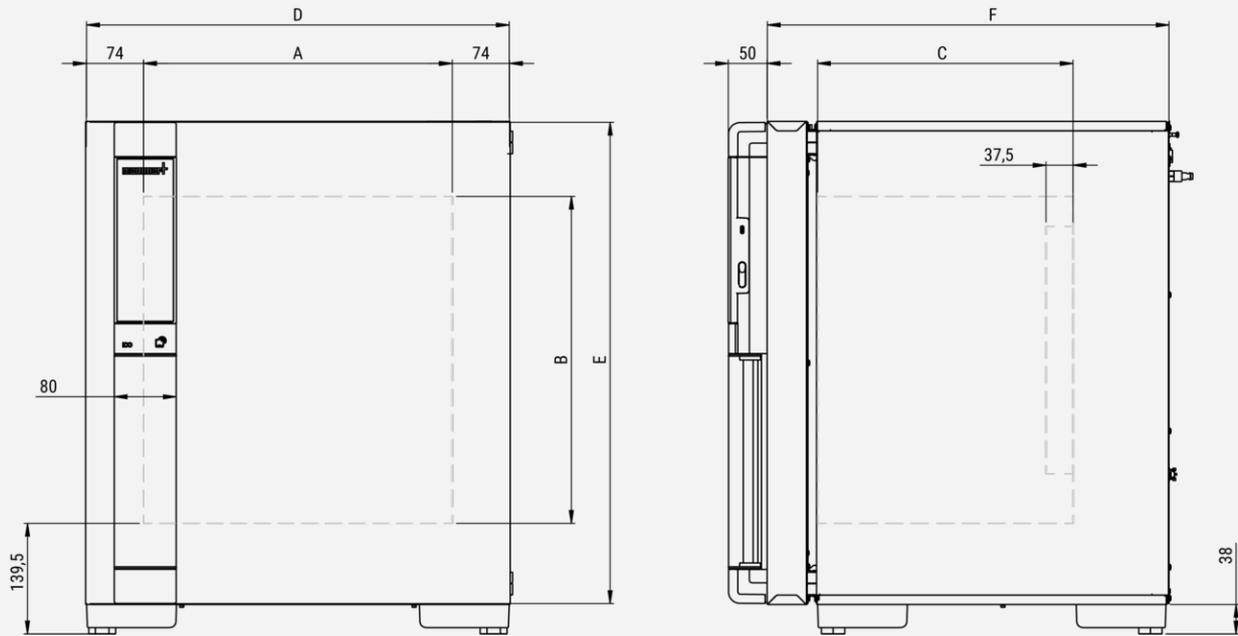# CO$_2$ Incubator
ICO240

ICO CO$_2$ Incubator – The perfect environment for superior cell growth.

The Memmert ICO CO$_2$ 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

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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		• 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.

CO_2

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		• Temperature • CO_2 • Relative humidity (requires option K7) • O_2 (requires option T6)
Adjustable device functions		• 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		• 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		• 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		Manual mode: • 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 Programme mode (power failure >1h): • 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		2
Other standard accessories		• CO_2 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)

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Stainless steel interior

Volume	l	243
Width	mm	600
Height	mm	810
Depth	mm	500
Max. number of grids/shelves	number	9
Max. loading of chamber	kg	135
Max. loading of grids/shelves	kg	15

Textured stainless steel casing

Width	mm	748
Height	mm	1013
Depth	mm	689
Installation		4 adjustable appliance feet

Electrical data

Electrical load	230 V	W	1650
	115 V	W	1650

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

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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	925
	Height	mm	1277
	Depth	mm	854
Weight	Net	kg	113
	Gross	kg	132

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

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