

CO₂ Incubators, Memmert



WW91A003

memmert

The CO₂ incubator ICOMed convinces in terms of safety and user friendliness: Thanks to battery-buffered ControlCOCKPIT, the operating display, logging and CO₂ control are fully functional even during a power failure; all parameters are logged fail-safe in conformity with FDA requirements. Visual and acoustic alarm as well as additional alarm notification to mobile phones if the individually adjustable temperature, CO₂, O₂, or humidity ranges are exceeded. The interior chamber has rounded corners for easy cleaning; together with all sensors, it can be sterilised at +180°C in a 60-minute programme. The active humidity control ensures optimum protection of cell and tissue cultures. It minimises evaporation in the interior and provides for short recovery times.

Medical product certification:

Memmert CO₂ ICOMed incubators are class IIa medical devices pursuant to EU Directive MDD 93/42/EEG until May 26, 2024 according to the transitional provisions of (EU) 2017/745 - Article 120 (2). In accordance with their intended use, Memmert CO₂ ICOMed incubators may be used for generating and maintaining constant ambient conditions for applications of in-vitro fertilisation (IVF), in particular the incubation of oocytes, spermatozoons, and zygotes in vessels intended for IVF applications, as well as the gene expression, i.e. the biosynthesis of RNA and proteins.

1 model variant: TwinDISPLAY (a detailed description of the two variants can be found on page XXX)

Technical data:

Working temperature range:	at least: 5°C above ambient temperature up to +50°C. Standard sterilisation programme: 60 minutes at 180°C (without removing the sensors) +18°C to +50°C
Setting temperature range:	0.1°C
Setting accuracy temperature:	0.1°C
Setting range active humidity control:	40 to 97% rh and rh-Off
Setting accuracy humidity:	0.5% rh
Setting range CO ₂ :	0 to 20%
Setting range O ₂ :	1 to 20%
Setting accuracy CO ₂ :	0.1%
Setting accuracy O ₂ :	0.1%
Power supply:	230 V, 50/60 Hz (other voltages on request)

Available models and sizes with heated inner glass door and outer fully insulated stainless steel door:

Type series ICOMed

Type	Outer W x H x D mm	Inner W x H x D mm	Vol. approx. l	Wght approx. kg	P rating approx. W	Order No.
① ICO50med	559x791x521	400x425x330	56	55	1000	10 26 09050
② ICO105med	719x850x591	560x480x400	107	75	1300	10 26 09105
③ ICO150med	719x1070x591	560x700x400	156	90	1500	10 26 09150
④ ICO240med	759x1180x691	600x810x500	241	110	1650	10 26 09240

External dimensions: depth without door handle (door handle depth 56 mm)

Inner dimensions: depth minus 35 mm for fan

Options for ICOMed models

Battery-buffered ControlCOCKPIT

Uninterrupted supply for the entire display unit (ControlCOCKPIT) and therefore complete documentation of all parameters even when there is a power failure. The CO₂ parameter is continuously regulated. For all sizes.

Article	Order No.
Battery-buffered ControlCOCKPIT	10 26 09302

Automatic switch-over of gas cylinders

Two gas connections with quick release connectors. Suitable for all sizes.

Article	Order No.
Automatic switch-over of gas cylinders	10 26 09301

Electropolished interior space

Article	Order No.
for size 50	10 26 09401
for size 105	10 26 09402
for size 150	10 26 09403
for size 240	10 26 09404

Active microprocessor humidification and dehumidification control (40 – 97% rh)

Including digital indication and auto-diagnostic system; ensures even more rapid reaching of set humidity and very short recovery times while avoiding condensate formation. Humidity supply with water (only use demineralized / fully demineralized water with a conductivity of 5 to 10 µS/cm and a pH value between 5 and 7; from an external tank) by a self-priming pump; integral bacteria block by generating hotsteam, dehumidifying via sterile filter. For all sizes.

Article	Order No.
Active microprocessor humidification and dehumidification control (40 – 97% rh)	10 26 09307

①



②



③



④



Control of oxygen concentration

By introducing nitrogen, adjustment range from 1% to 20% O₂, setting accuracy 0,1%. Requires active microprocessor control for humidifying and dehumidifying. Incl. N2 connection set: hose with connection coupling and hose clamp. Suitable for all sizes.

Article	Order No.
Control of oxygen concentration	10 26 09306

Peltier cooling unit

Allows for an operating temperature of 37°C also with higher environmental temperatures of up to 35°C.

Article	Order No.
for size 50	10 26 09501
for size 105	10 26 09502
for size 150	10 26 09503
for size 240	10 26 09504

Interior doors with glass cut-out

Article	Order No.
for size 105	10 26 09522
for size 150	10 26 09523
for size 240	10 26 09524

Accessories for ICOMed models**Stainless steel perforated shelves**

for type	max. Qty.	Order No.
50	5	10 26 09531
105/150	6/10	10 26 09532
240	12	10 26 09534

An extensive selection of accessories and options is available on request.

We reserve the right to make changes in technical specifications. Dimensions subject to confirmation.

All performance data are typical mean values for serial devices.

