



CO<sub>2</sub> Incubator ICOMed with TwinDISPLAY  
AtmoCONTROL software

Model sizes:

50 / 105 / 150 / 240

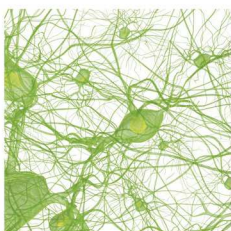
+18 °C to +50 °C

Humidity 40 to 97 % rh

CO<sub>2</sub> concentration 0 to 20 %

O<sub>2</sub> concentration 1 to 20 %

**CO<sub>2</sub> INCUBATOR ICOMed** Safety at all times. When it comes to safety and user friendliness, the highly modern CO<sub>2</sub> incubator ICOMed is the perfect solution: Visual and acoustic alarms in case of deviation from the set parameters, condensation-free humidity control and fast recovery times. The control technology is so finely tuned that the setpoint temperature is guaranteed to be reached without temperature overshoots. With its rounded corners, the interior is easy to clean and can be sterilised for 60 minutes at 180 °C (including all sensors).



## CO<sub>2</sub> Incubator ICOfed is a medical device

Memmert CO<sub>2</sub> Incubators ICOfed are class IIa medical devices according to MDD 93/42/EEC until 26th May 2024 according to the transitional provisions by the (EU) 2017/745 - Article 120 (2).

The appliance is intended for the creation and maintenance of constant environmental conditions for application in the field of in vitro fertilisation (IVF), especially for the incubation of oocytes, spermatozoa and zygotes in special culture dishes for IVF application as well as for gene expression and the biosynthesis of RNA and proteins. The CE label on the appliances includes the mark 0197, denoting TRLP – TÜV Rheinland as the notified body.

### Know-how:

#### Minimising vaporisation and condensation

Active humidity control ensures short recovery times after the door has been opened and minimises vaporisation in the interior. Together with the heating of the interior from all six sides and the heated inner glass door, it offers maximum protection for cell and tissue cultures and avoids the dangerous formation of condensation. The turbulence-free chamber ventilation ensures a constant and uniform atmosphere.



CO<sub>2</sub> Incubator with heated inner glass door

## CO<sub>2</sub> INCUBATORS IC0med

according to DIN 12880:2007-05, EN 61010-1 (IEC 61010-1), EN 61010-2-010

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



**Interior:** Stainless steel, material 1.4301 (ASTM 304), deep-drawn, seamlessly welded

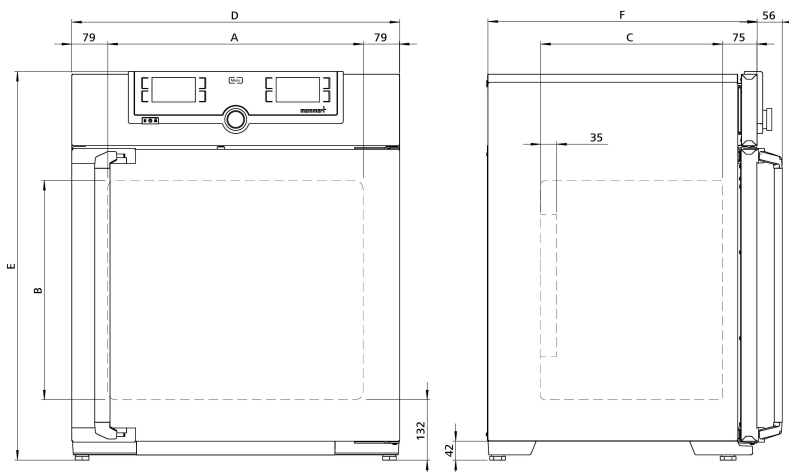
**Housing:** Textured stainless steel, rear zinc-plated steel, intuitively operated TwinDISPLAY (TFT colour display) with touchscreen; fully insulated stainless steel door and heated inner glass door

**Automatic sterilisation:** Humidity and CO<sub>2</sub> sensor sterilised inside the CO<sub>2</sub> incubator

**Connection:** Mains cable with plug (German type)

**Installation:** 4 adjustable feet

**Interfaces:**



Model sizes/Description			50	105	150	240
Stainless steel interior	Volume	approx. l	56	107	156	241
	Width	(A) mm	400	560		600
	Height	(B) mm	425	480	700	810
	Depth (less 35 mm for fan)	(C) mm	330	400		500
	Max. number of perforated shelves	number	5	6	10	12
	Max. loading per perforated shelf	kg	15			
	Max. loading of chamber	kg	75	90	120	140
Textured stainless steel exterior	Width	(D) mm	559	719		759
	Height (variable through adjustable feet)	(E) mm	795	850	1070	1180
	Depth (without door handle, depth of handle +56 mm)	(F) mm	521	591		691
	Fully insulated heated stainless steel door			●		
	Additional heated inner glass door			●		
Standard equipment	Stainless steel shelves, perforated	number	1	2		
	Stainless steel water dish (not applicable with option K7)	number		1		
	Works calibration certificate (measuring point chamber centre) at +37 °C, 5 % CO <sub>2</sub> for standard units			●		
	Works calibration certificate at +37 °C, 5 % CO <sub>2</sub> , 90 % rh and 10 % O <sub>2</sub> (requires option K7 and option T6); standard equipment for units with O <sub>2</sub> control			●		
	Works calibration certificate at +37 °C, 5 % CO <sub>2</sub> and 90 % rh (requires option K7); standard equipment for units with active humidity control			●		
	CO <sub>2</sub> connection set: hose with coupling and clamp			●		
	Standard sterilisation programme (without removing the sensors), humidity and CO <sub>2</sub> sensor sterilised inside the CO <sub>2</sub> incubator			60 minutes at 180 °C		
Membrane filter (in order to remove impurities and pollutants, all incoming gases pass through a membrane filter before they reach the chamber)			●			
Temperature	Working temperature range	°C	at least 5 above ambient temperature up to +50			
	Setting temperature range	°C	+18 to +50			
	Setting accuracy	°C	0.1			
	Temperature fluctuations with time at +37 °C	K	+/- 0.1			
	Temperature variation in chamber at +37 °C	K	+/- 0.3			
Humidity	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 %		●			
	Setting range active humidity control (with option K7)	% rh	40 to 97 and rh-Off			
	Setting accuracy	% rh	0.5			
CO <sub>2</sub> / O <sub>2</sub>	Digital electronic CO <sub>2</sub> control with dual beam NDIR system, with auto-diagnostic system and acoustic fault indication, barometric pressure compensation		●			
	Setting range CO <sub>2</sub>	% CO <sub>2</sub>	0 to 20			
	Variation in time CO <sub>2</sub>	% CO <sub>2</sub>	+/- 0.2			
	Setting accuracy CO <sub>2</sub>	% CO <sub>2</sub>	0.1			
	Setting range O <sub>2</sub>	% O <sub>2</sub>	1 to 20			
	Setting accuracy O <sub>2</sub>	% O <sub>2</sub>	0.1			
Further data	Electrical load at 230/115 V, 50/60 Hz	approx. W	1100	1300	1500	1650

Model sizes/Description		50	105	150	240	
Packing data	Net weight	approx. kg	55	75	90	110
	Gross weight (packed in carton)	approx. kg	74	100	116	145
	Width	approx. mm	730	800		840
	Height	approx. mm	950	1030	1250	1360
	Depth	approx. mm	640	800		900
<b>Order No. CO<sub>2</sub> Incubators</b>			IC050med	IC0105med	IC0150med	IC0240med
Options		50	105	150	240	
Voltage 115 V, 50/60 Hz			X2			
Electropolished interior			T2			
Control of oxygen concentration by N <sub>2</sub> inlet; adjustment range 1 % up to 20 % O <sub>2</sub> ; setting accuracy 0.1 % (requires option K7). Incl. N <sub>2</sub> connection set: hose with coupling and clamp			T6			
Capacitive humidity sensor for measuring and displaying the relative humidity			K6			
Entry port (silicone), 40 mm clear diameter, moisture tight, can be closed by silicone stopper, at the back, centre right; not available for IC050med with active humidity control (option K7) or humidity display (option K6)			F7			
Heated inner door with partitioned glass doors; size105/150/240 has 2/3/4 partitioned glass doors		-	K4			
Active microprocessor control for humidifying and dehumidifying (40 - 97 % rh), incl. 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 for demineralised 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 hot steam, dehumidifying via sterile filter			K7			
Accessories		50	105	150	240	
Perforated stainless steel shelf		E35160	E37418	E35158		
Water dish			B38737			
Subframe (622 mm high) adjustable in height (sizes 150/240: should not be used for 2 stacked units)		B33504	B33505	B33506		
Subframe (130 mm high); sizes 150/240: only in combination with the corresponding stacking sets for stacked appliances		B33507	B33508	B33509		
Subframe, on castors (height 120 mm; stainless steel, material 1.4301)			-	B43598		
HEPA14-filter for chamber according to EN 1822, packed in sterile condition, incl. fixing unit			B49800			
3 HEPA14-filters (B49800) for chamber according to EN 1822, packed in sterile condition, incl. fixing unit			B39698			
CO <sub>2</sub> pressure reducing valve to DIN 8546, incl. gas cylinder monitor			E02087			
N <sub>2</sub> pressure reducing valve to DIN EN ISO 2503, incl. gas cylinder monitor (requires option T6)			E06162			
Central water supply, with filter cartridges for connection to the domestic water supply (requires option K7). Product information on demand			ZWVR6			
Central water supply, without filter cartridges for connection to the domestic water supply (only for demineralised water with a conductivity of 5 to 10 µS/cm and a pH value between 5 and 7, requires option K7). Product information on demand			ZWVR7			
Guarantee extension by 1 year			GA3Q5			
Celltron benchtop shaker (not subject to discount) - accessories upon request (only in combination with E06726)			-	E06724		
Base plate with sticky stuff (not subject to discount) (only in combination with E06724)			-	E06726		
USB-Ethernet adapter			E06192			
Ethernet connection cable 5 m for computer interface			E06189			
USB User-ID stick (with User-ID licence): Oven-linked authorisation licence (User-ID-programme) on Memory-stick, prevents undesired manipulation by unauthorised third parties. When reordering please specify serial number			B33170			
Stacking set (4 pcs) for stacking of appliances of same size		B29744	-			
Stacking set (consisting of stacking corners, one connecting plate for the rear, two wall brackets) for stacking of two units of same size		-	B42114	-		
Stacking set (consisting of stacking corners, one connecting plate for the rear, two wall brackets) for stacking of two units of same size (only in connection with subframe B33509 or B43598)		-	-		B48129	
Software conforming to FDA AtmoCONTROL. Meets the requirements for the use of electronically stored data sets and electronic signatures as laid down in Regulation 21 CFR Part 11 of the US Food and Drug Administration (FDA) (only for units with TwinDISPLAY). Respective IQ/OQ documents available in German and English language (without surcharge).			FDAQ1			
Integration of additional units (up to max. 31 units) into an already existent FDA-software licence			FDAQ2			
External measuring instrument with additional measuring head for temperature and humidity measurement. Product information on demand			B04714			
DAkS calibration for one (freely selectable) temperature and humidity value according to method C (DKD-R 5-7) (requires option K7)			E48847			
DAkS calibration for further temperature and humidity values according to method C (DKD-R 5-7) (requires option K7)			E48848			
IQ document with device-specific works test data, OQ/PQ check list as support for validation by customer			D00124			
IQ/OQ document with device-specific works test data for one free-selectable CO <sub>2</sub> and temperature value, incl. temperature distribution survey at Memmert for 27 measuring points to DIN 12880:2007-05, PQ check list as support for validation by customer. 475 € for further CO <sub>2</sub> and temperature values			D38898			
IQ/OQ document with device-specific works test data for one free-selectable CO <sub>2</sub> , humidity and temperature value, incl. temperature distribution survey at Memmert for 27 measuring points to DIN 12880:2007-05, PQ check list as support for validation by customer (requires option K7). 605 € for further CO <sub>2</sub> , humidity and temperature values			D38897			
On-site IQ/OQ for a freely selectable temperature and CO <sub>2</sub> value, including temperature distribution survey for 27 measuring points to DIN 12880: 2007-05 (excluding travel costs, not subject to discount, GER, AT, FR only)			DLQ102			
Extension of DLQ102 by an additional freely selectable temperature and CO <sub>2</sub> value (not subject to discount)			DLQ102A			
On-site IQ/OQ for a freely selectable temperature, humidity and CO <sub>2</sub> value, including temperature distribution survey for 27 measuring points to DIN 12880: 2007-05 (requires option K7) (excluding travel costs, not subject to discount, GER, AT, FR only)			DLQ103			
Extension of DLQ103 by an additional freely selectable temperature, humidity and CO <sub>2</sub> value (requires option K7) (not subject to discount)			DLQ103A			

Accessories	50	105	150	240
On-site IQ/OQ for a freely selectable temperature, CO <sub>2</sub> and O <sub>2</sub> value, including temperature distribution survey for 27 measuring points to DIN 12880:2007-05 (requires option T6) (excluding travel costs, not subject to discount, GER, AT, FR only)		DLQ104		
Extension of DLQ104 by an additional freely selectable temperature, CO <sub>2</sub> and O <sub>2</sub> value (requires option T6) (not subject to discount)		DLQ104A		
On-site IQ/OQ for a freely selectable temperature, humidity, CO <sub>2</sub> and O <sub>2</sub> value, including temperature distribution survey for 27 measuring points to DIN 12880: 2007-05 (requires option K7 and T6) (excluding travel costs, not subject to discount, GER, AT, FR only)		DLQ105		
Extension of DLQ105 by an additional freely selectable temperature, humidity, CO <sub>2</sub> and O <sub>2</sub> value (requires option K7 and T6) (not subject to discount)		DLQ105A		
Individual on-site Performance Qualification (PQ)		DLQ200		
Maintenance ICO/ ICOfed active humidity - carrying out and documentation according to Memmert maintenance plan (requires option K7) (excluding travel costs, not subject to discount, GER, AT, FR only)		S00312		
Maintenance contract ICO/ ICOfed active humidity - carrying out and documentation according to Memmert maintenance plan, minimum duration 3 years (requires option K7) (excluding travel costs, not subject to discount, GER, AT, FR only)		S00312J		
Maintenance ICO/ ICOfed passive humidity - carrying out and documentation according to Memmert maintenance plan (excluding travel costs, not subject to discount, GER, AT, FR only)		S00323		
Maintenance contract ICO/ ICOfed passive humidity - carrying out and documentation according to Memmert maintenance plan, minimum duration 3 years (excluding travel costs, not subject to discount, GER, AT, FR only)		S00323J		
Calibration of one freely selectable temperature value (excluding travel costs, not subject to discount, GER, AT, FR only)		S00205		
Calibration of an additional temperature value (not subject to discount)		S00215		
Calibration of one freely selectable temperature and humidity value (requires Option K7) (excluding travel costs, not subject to discount, GER, AT, FR only)		S00207		
Calibration of an additional temperature and humidity value (requires option K7) (not subject to discount)		S00216		
Calibration of one freely selectable temperature and humidity value including CO <sub>2</sub> (requires option K7) (excluding travel costs, not subject to discount, GER, AT, FR only)		S00211		
Calibration of an additional temperature and humidity value including CO <sub>2</sub> (requires option K7) (not subject to discount)		S00217		