



**memmert**  
Experts in Thermostatics

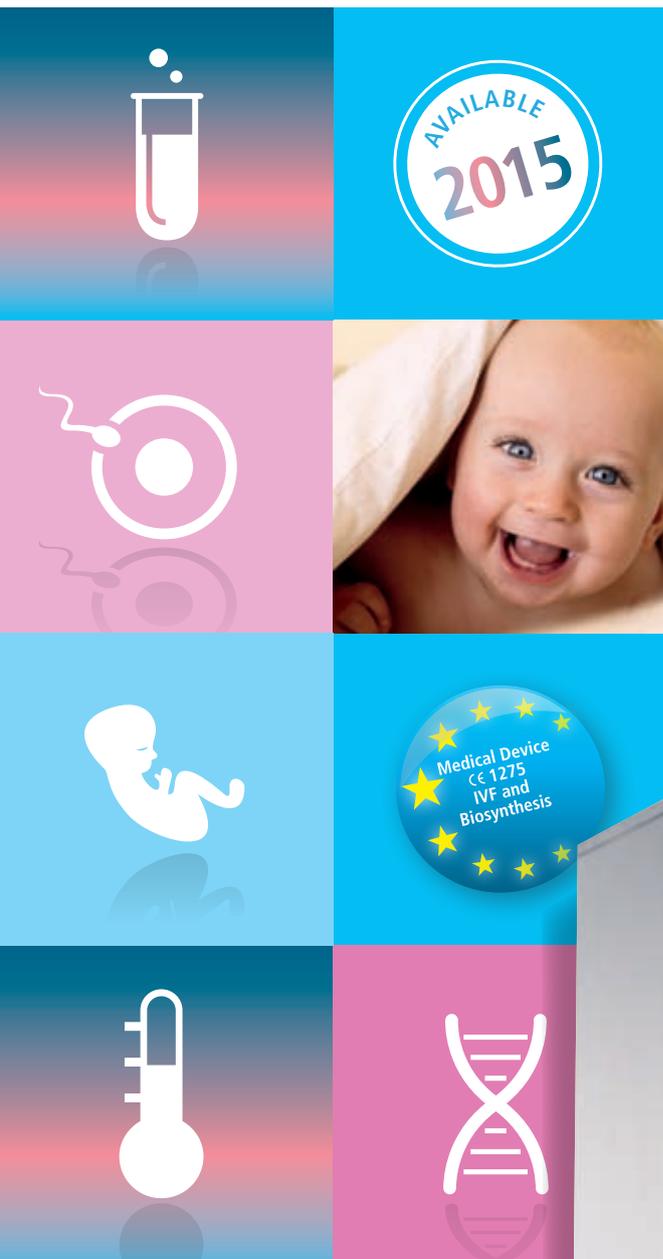
# INCOivf

## CO<sub>2</sub> incubator for in vitro fertilisation

Temperature adjustment range: +20 °C to +50 °C | CO<sub>2</sub> concentration up to 10 %  
Chamber volume: 108 litres | Humidity adjustment range: 88 to 97 % rh | O<sub>2</sub> concentration 1 to 20 %

When it comes to in vitro fertilisation, efficient processes are very important not only from an economical perspective. The higher the clinical success rates, the higher the number of satisfied customers, and that in turn affects the reputation and the image of the IVF clinic. In close cooperation with IVF specialists Memmert has developed a CO<sub>2</sub> incubator which fulfils all crucial conditions for embryo culture, especially controlled CO<sub>2</sub> and O<sub>2</sub> concentration as well as constant and high humidity. In order to keep the recovery times to a minimum, the Petri dishes are cultivated in separate slide-in units.

- Certified as a class IIa medical device for in vitro fertilisation and biosynthesis: every Memmert CO<sub>2</sub> incubator INCOivf complies with the basic safety requirements as stipulated in the European Medical Device Directive (93/42/EEC)
- Active humidification and dehumidification: minimal vaporisation in the chamber interior, no condensation, cultivation without oil overlay possible
- Only one slide-in unit at a time can be opened: quick recovery times due to minimal air exchange
- Easy, low-vibration and safe opening: slide-in units are pulled out to the front and have a pull-out lock





## INCOivf – CO<sub>2</sub> INCUBATOR FOR IN VITRO FERTILISATION

Controlled humidity thanks to active humidification and dehumidification

In common CO<sub>2</sub> incubators and in special IVF incubators, vaporisation and condensation are a major problem. The Memmert IVF module is used in a Memmert CO<sub>2</sub> incubator INCOmed. This ensures that the CO<sub>2</sub> content, O<sub>2</sub> content and humidity in the chamber interior can be controlled with absolute precision. The active humidification and dehumidification in particular keeps vaporisation to a minimum so that cultivation under oil is not required in addition.

8 slide-in units offer space for a total of 24 4-well dishes, 24 large Petri dishes of 60 mm in diameter or 48 Petri dishes of 35 mm in diameter. The Petri dishes are placed on indentations for better heat distribution and cannot slip out of position when the slide-in units are pulled out.

The low air exchange with the outside ensures fast recovery times for the CO<sub>2</sub> content and humidity because as long as one slide-in unit is open, no other unit can be pulled out.

**Further safety features of the IVF module:** easy-to-clean stainless steel, all slide-in units can be labelled individually, interior chamber including all installations can be sterilised at +160 °C in a 4-hour programme, and the low-vibration roller feed-throughs of the slide-in units work without lubricant.

### Performance measurements

at 23 °C ambient temperature (working temperature range from at least 8 °C above ambient) equipped with Petri dishes



Minimal recovery times achieved by cultivating the Petri dishes in separate slide-in units

Recovery time after opening the door/retrieving the Petri dish			
	Opening of the door/slide-in unit		
	10 sec	20 sec	30 sec
6 % CO <sub>2</sub> (98 % of the set value)	25 sec	45 sec	60 sec
37 °C (in accordance with DIN 12 880: 2007-05)	no measurable change	no measurable change	no measurable change
95 % rh (98 % of the set value)	20 sec	35 sec	55 sec

The IVF module is used in a Memmert CO<sub>2</sub> incubator INC108med and can be removed completely for cleaning. For detailed technical data, please refer to the Memmert incubator brochure.



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