



**memmert**  
Experts in Thermostatics

## Product specification

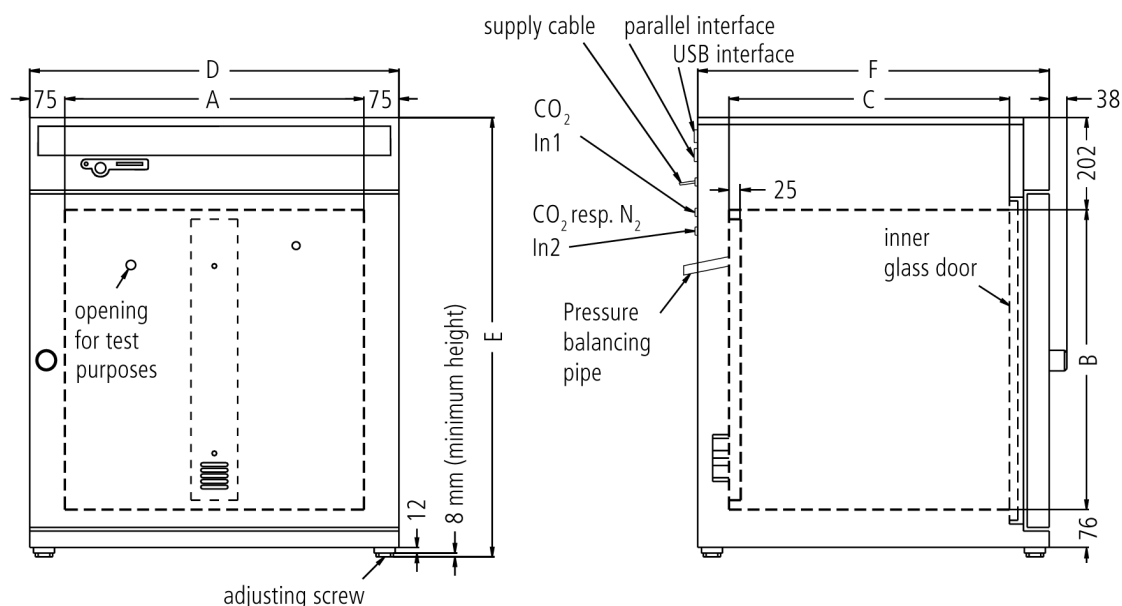
### CO<sub>2</sub> Incubator (med)

### INCO153med

Protection for in vitro growing cell cultures, tissue cultures and bacteria cultures in a controlled and physiologically ideal environment.



On this page, you can find all the essential technical data on the Memmert CO<sub>2</sub> incubator INCOmed. Our customer relations team will be pleased to help if you want further information. If you should require a customised special solution, please contact our technical specialists at [myAtmoSAFE@memmert.com](mailto:myAtmoSAFE@memmert.com).



## Control of standard components

|                    |                                                                                                                                               |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Controller</b>  | Electronic microprocessor temperature controller with auto-diagnostic system                                                                  |
| <b>Temperature</b> | 2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value                  |
| <b>Timer</b>       | digital 7-day programme timer with real time clock, precise minute setting                                                                    |
| <b>Controller</b>  | digital display of all set parameters, such a temperature, weekdays, time, CO2, humidity and set-up values - language to be chosen via set-up |
| <b>CO2</b>         | CO2-supply via sterile filter                                                                                                                 |
| <b>CO2</b>         | digital electronic CO2-control with automatic zeroing (infrared measuring system) - adjustment range 0 - 10 % - resolution 0.1 %              |
| <b>CO2</b>         | intrinsic adjustment of altitude above sea level                                                                                              |
| <b>CO2</b>         | CO2-supply interruption upon door opening                                                                                                     |
| <b>Controller</b>  | digital display of setpoint and actual values (LED) for temperature (resolution 0.1°C) and CO2 concentration (0.1 %)                          |
| <b>Humidity</b>    | integrated humidity limit control (88-97 % rh) with digital display of relative humidity - resolution of display 0.5 %, setting accuracy 1 %  |

## Temperature

min. 8°C above ambient up to +50°C

## Control technology

|                    |                                                                                                                                        |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Calibration</b> | three freely selectable temperature values, 2-point-calibration for humidity: 20 and 90 %, 3-point calibration for CO2: 5 %, 7 %, 10 % |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------|

## Ventilation

uniform atmosphere and temperature distribution owing to enclosed non-turbulent ventilation system in working chamber

## Communication

|                      |                                           |
|----------------------|-------------------------------------------|
| <b>Documentation</b> | programme stored in case of power failure |
|----------------------|-------------------------------------------|

## Safety

|                              |                                                                                                                                                                                                                                          |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Autodiagnostic system</b> | integral fault diagnostics for temperature, CO2 and humidity limit control                                                                                                                                                               |
| <b>Alarm</b>                 | visual and acoustic                                                                                                                                                                                                                      |
| <b>Temperature control</b>   | overtemperature monitor TWW, protection class 3.1 or adjustable temperature limiter TWB, protection class 2, selectable on display                                                                                                       |
| <b>Alarm</b>                 | Acoustic alarm: Over- and undertemperature, over-CO2 and empty gas cylinder, open door, underhumidity and empty water tank (with optional humidity module)                                                                               |
| <b>AutoSAFETY</b>            | additionally integrated over- and undertemperature monitor "ASF", automatically following the setpoint value at a preset tolerance range, alarm in case of over- or undertemperature, heating is switched off in case of overtemperature |
| <b>Temperature control</b>   | mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 10°C above nominal temperature                                                                                            |

## Heating concept

large-area multi-function heating system on four sides with additional door and back heating to avoid condensation

## Standard equipment

|                          |                                                                                                                                        |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Internals</b>         | 3 perforated stainless steel shelves and 1 stainless steel water tray                                                                  |
| <b>Scope of delivery</b> | chip-card (STERICard) for sterilisation of working chamber with fixed values (4 hours/160°C), without removal of sensors and mountings |
| <b>Scope of delivery</b> | incl. works calibration certificate for +37°C                                                                                          |
| <b>Door</b>              | fully insulated stainless steel door with 2-point locking (compression door lock), lockable                                            |
| <b>Door</b>              | inner glass door with opening (8 mm Ø) to take gas sample                                                                              |
| <b>Housing</b>           | rear zinc-plated steel                                                                                                                 |
| <b>Interior</b>          | easy-to-clean interior, made of stainless steel, reinforced by deep drawn ribbing, material 1.4301 (ASTM 304), hermetically welded     |

## Stainless steel interior

|                                   |                                                              |
|-----------------------------------|--------------------------------------------------------------|
| <b>Dimensions W x H x D in mm</b> | $w_{(A)} \times h_{(B)} \times d_{(C)}$ : 480 x 640 x 500 mm |
| <b>Volume</b>                     | 153 l                                                        |

## Textured stainless steel casing

|                                                              |
|--------------------------------------------------------------|
| $w_{(D)} \times h_{(E)} \times d_{(F)}$ : 630 x 938 x 650 mm |
|--------------------------------------------------------------|

## Electrical data

|                        |                 |
|------------------------|-----------------|
| <b>Voltage</b>         | 230 V, 50/60 Hz |
| <b>Electrical load</b> | approx. 1500 W  |

## Packing/shipping data

the appliances must be transported upright

|                                       |                                |
|---------------------------------------|--------------------------------|
| <b>Customs tariff number</b>          | 8419 8998                      |
| <b>Country of origin</b>              | Federal Republic of Germany    |
| <b>WEEE-Reg.-No.</b>                  | DE 66812464                    |
| <b>Dimensions approx incl. carton</b> | B x H x T: 830 x 1300 x 800 mm |
| <b>Net weight</b>                     | approx. 80 kg                  |
| <b>Gross weight carton</b>            | approx. 106 kg                 |

Standard units are safety-approved and bear the test marks

