

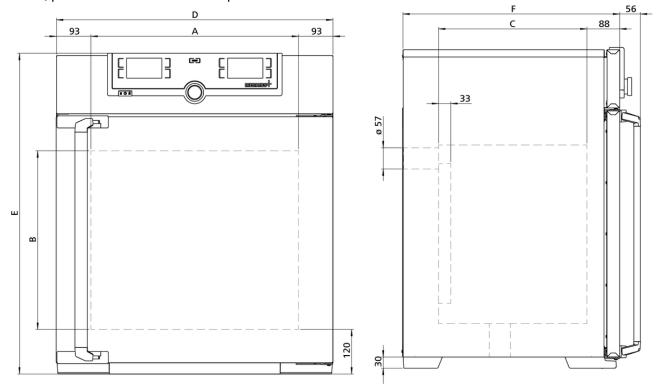
### Incubator Im

# IF110mplus

The incubator Im is a Class I medical device.



The heating of this incubator is optimally tuned for forced air circulation; the fan can also be switched off completely, and valuable chamber loads for research, pharmaceutics, medicine and food chemistry are warmed up very carefully. On this page, you can find all the essential technical data on our incubator. 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 sales@memmert.com.



Temperature	
Setting temperature range	+20 to +80 °C
Working temperature range	min. 10°C above ambient up to +80°C
Setting accuracy temperature	0.1 °C
Temperature sensor	2 Pt100 sensors DIN Class A in 4-wire-circuit for mutual monitoring, taking over functions in case of an error
Control technology	
ControlCOCKPIT	TwinDISPLAY. Adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-colour displays.
Language setting	German, English, Spanish, French, Polish, Czech, Hungarian
Timer	Digital backwards counter with target time setting, adjustable from 1 minute to 99 days
Function HeatBALANCE	adapting the distribution of the heating performance of the upper and lower heating circuit from -50 $\%$ to +50 $\%$
Function SetpointWAIT	the process time does not start until the set temperature is reached
Calibration	three freely selectable temperature values
adjustable parameters	temperature (Celsius or Fahrenheit), fan speed, air flap position, programme time, time zones, summertime/wintertime
Sterilisation	fixed sterilisation programme (4 hours/160°C) for sterilisation of working chamber, not for sterilising the load
Ventilation	
Fan	forced air circulation by quite air turbine, adjustable in 10 % steps for each segment individually
Fresh air	Admixture of pre-heated fresh air by electronically adjustable air flap
Fresh air Vent	
	Admixture of pre-heated fresh air by electronically adjustable air flap
Vent	Admixture of pre-heated fresh air by electronically adjustable air flap
Vent  Communication	Admixture of pre-heated fresh air by electronically adjustable air flap  vent connection with restrictor flap
Vent  Communication  Documentation	Admixture of pre-heated fresh air by electronically adjustable air flap  vent connection with restrictor flap  programme stored in case of power failure  AtmoCONTROL software on a USB stick for programming, managing and transferring programmes
Communication Documentation Programming	Admixture of pre-heated fresh air by electronically adjustable air flap  vent connection with restrictor flap  programme stored in case of power failure  AtmoCONTROL software on a USB stick for programming, managing and transferring programmes
Communication Documentation Programming Safety	Admixture of pre-heated fresh air by electronically adjustable air flap  vent connection with restrictor flap  programme stored in case of power failure  AtmoCONTROL software on a USB stick for programming, managing and transferring programmes via Ethernet interface or USB port  mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating
Communication Documentation Programming  Safety Temperature control	Admixture of pre-heated fresh air by electronically adjustable air flap  vent connection with restrictor flap  programme stored in case of power failure  AtmoCONTROL software on a USB stick for programming, managing and transferring programmes via Ethernet interface or USB port  mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 20°C above nominal temperature  overtemperature monitor TWW, protection class 3.1 or adjustable temperature limiter TWB, protection
Communication Documentation Programming  Safety Temperature control  Temperature control	Admixture of pre-heated fresh air by electronically adjustable air flap  vent connection with restrictor flap  programme stored in case of power failure  AtmoCONTROL software on a USB stick for programming, managing and transferring programmes via Ethernet interface or USB port  mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 20°C above nominal temperature  overtemperature monitor TWW, protection class 3.1 or adjustable temperature limiter TWB, protection class 2, selectable on display  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

# Standard equipment

Door	inner glass door
Works calibration certificate	incl. works calibration certificate for +37°C
Internals	2 stainless steel grid(s), electropolished
Door	fully insulated stainless steel door with 2-point locking (compression door lock)

### Stainless steel interior

Dimensions	$w_{(A)} \times h_{(B)} \times d_{(C)}$ : 560 x 480 x 400 mm (d less 39 mm for fan)
Interior	easy-to-clean interior,made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides
Volume	108 l
Max. number of internals	5
Max. loading of chamber	175 kg
Max. loading per internal	20 kg

# Textured stainless steel casing

Dimensions	w <sub>(D)</sub> x h <sub>(E)</sub> x d <sub>(F)</sub> : 745 x 864 x 584 mm (d +56mm door handle)
Housing	rear zinc-plated steel

### **Electrical data**

Voltage	230 V, 50/60 Hz
Electrical load	approx. 1400 W
Voltage	115 V, 50/60 Hz
Electrical load	approx. 900 W

### **Ambient conditions**

Set Up	The distance between the wall and the rear of the appliance must be at least 15 cm. The clearance from the ceiling must not be less than 20 cm and the side clearance from walls or nearby appliances must not be less than 5 cm.
Altitude of installation	max. 2,000 m above sea level
Ambient temperature	+5 °C to +40 °C
Humidity rh	max. 80 %, non-condensing
Overvoltage category	II
Pollution degree	2

# Packing/shipping data

Transport information	The appliances must be transported upright
Customs tariff number	8419 8998
Country of origin	Federal Republic of Germany
WEEE-RegNo.	DE 66812464
Dimensions approx incl. carton	w x h x d: 830 x 1050 x 800 mm
Net weight	approx. 76 kg
Gross weight carton	approx. 101 kg

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







