

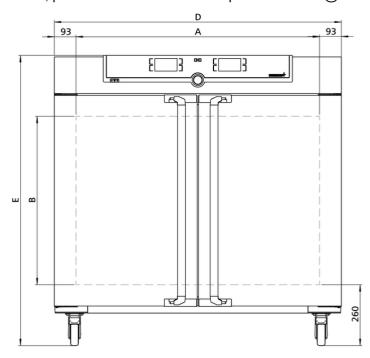
Incubator

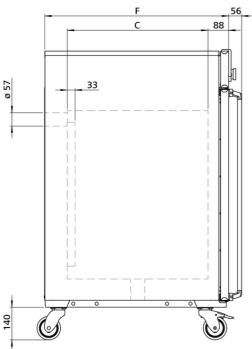
IF450plus

The incubator I is at home everywhere in the world of research, medicine, pharmaceutics and food analytics, as well as food chemistry.



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 customized special solution, please contact our technical specialists at info@memmertusa.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-color 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, timer
Sterilization	fixed sterilization program (4 hours/160°C) for sterilization of working chamber, not for sterilizing the load
Sterilization Ventilation Fan	
Ventilation	the load
Ventilation Fan	forced air circulation by quite air turbine, adjustable in 10 % steps for each segment individually
Ventilation Fan Fresh air	forced air circulation by quite air turbine, adjustable in 10 % steps for each segment individually Admixture of pre-heated fresh air by electronically adjustable air flap vent connection with restrictor flap
Ventilation Fan Fresh air Vent Communication Documentation	forced air circulation by quite air turbine, adjustable in 10 % steps for each segment individually Admixture of pre-heated fresh air by electronically adjustable air flap vent connection with restrictor flap program stored in case of power failure
Ventilation Fan Fresh air Vent Communication	forced air circulation by quite air turbine, adjustable in 10 % steps for each segment individually Admixture of pre-heated fresh air by electronically adjustable air flap vent connection with restrictor flap
Ventilation Fan Fresh air Vent Communication Documentation	forced air circulation by quite air turbine, adjustable in 10 % steps for each segment individually Admixture of pre-heated fresh air by electronically adjustable air flap vent connection with restrictor flap program stored in case of power failure AtmoCONTROL software on a USB stick for programming, managing and transferring programs
Ventilation Fan Fresh air Vent Communication Documentation Programming	forced air circulation by quite air turbine, adjustable in 10 % steps for each segment individually Admixture of pre-heated fresh air by electronically adjustable air flap vent connection with restrictor flap program stored in case of power failure AtmoCONTROL software on a USB stick for programming, managing and transferring programs
Ventilation Fan Fresh air Vent Communication Documentation Programming Safety	forced air circulation by quite air turbine, adjustable in 10 % steps for each segment individually Admixture of pre-heated fresh air by electronically adjustable air flap vent connection with restrictor flap program stored in case of power failure AtmoCONTROL software on a USB stick for programming, managing and transferring programs via Ethernet interface or USB port mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating
Ventilation Fan Fresh air Vent Communication Documentation Programming Safety Temperature control	forced air circulation by quite air turbine, adjustable in 10 % steps for each segment individually Admixture of pre-heated fresh air by electronically adjustable air flap vent connection with restrictor flap program stored in case of power failure AtmoCONTROL software on a USB stick for programming, managing and transferring programs 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
Ventilation Fan Fresh air Vent Communication Documentation Programming Safety Temperature control	forced air circulation by quite air turbine, adjustable in 10 % steps for each segment individually Admixture of pre-heated fresh air by electronically adjustable air flap vent connection with restrictor flap program stored in case of power failure AtmoCONTROL software on a USB stick for programming, managing and transferring programs 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

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

Stainless steel interior

$W_{(A)} \times h_{(B)} \times d_{(C)}$: 40.9 x 28.3 x 23.6 inches (d less 1.5" for fan)
easy-to-clean interior,made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides
449 I / 15.9 cu ft
8
661 lbs
66 lbs

Textured stainless steel casing

Dimensions	w _(D) x h _(E) x d _(F) : 48.2 x 48.3 x 30.9 inches (d +2.2" door handle)
Installation	on lockable castors
Housing	rear zinc-plated steel

Electrical data

Voltage	230 V (± 10%), 50/60 Hz
Electrical load	approx. 1800 W / 7.9 A
Voltage	115 V (± 10%), 50/60 Hz
Electrical load	approx. 1500 W / 13.1 A

Ambient conditions

Set Up	The distance between the wall and the rear of the appliance must be at least 6". The clearance from the ceiling must not be less than 8" and the side clearance from walls or nearby appliances must not be less than 2".
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: 53 x 57 x 42 inches
Net weight	approx. 355 lbs
Gross weight carton	approx. 501 lbs

Standard units are safety-approved and bear the test marks







