

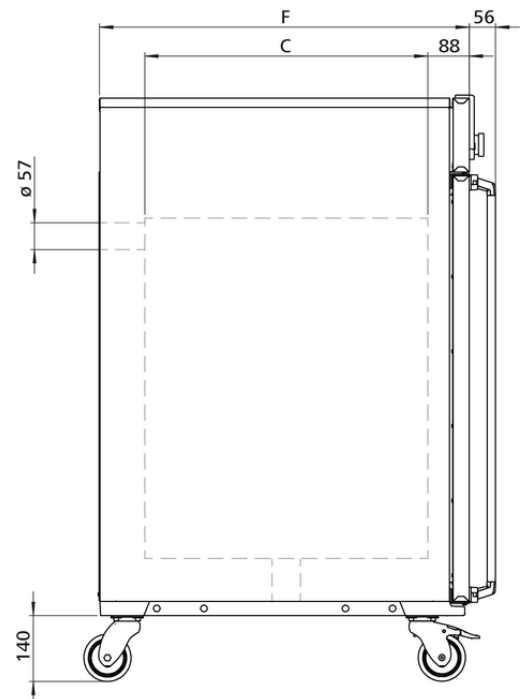
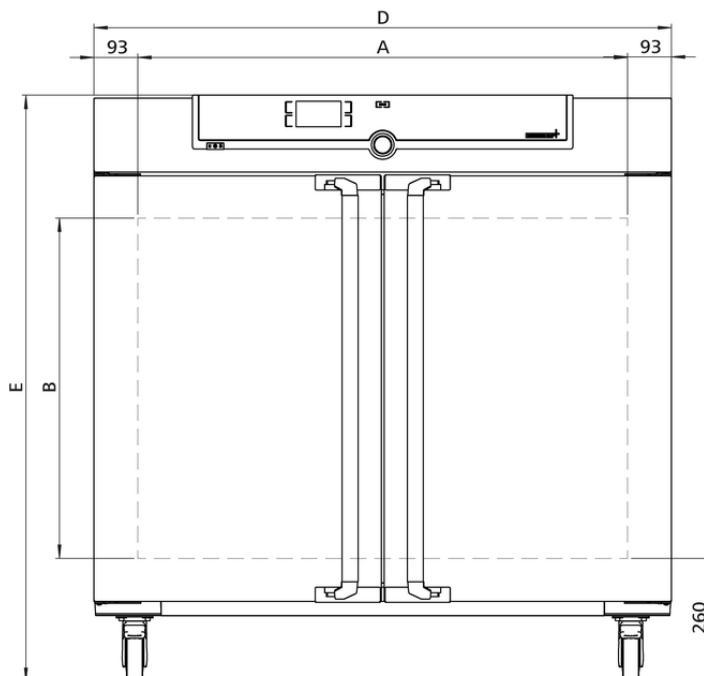
## Incubator

### IN450

The incubator I is perfect for the world of research, medicine, pharmaceuticals and food analytics, as well as food chemistry.



The heating of this incubator is optimally tuned for natural convection and valuable chamber loads for research, pharmaceuticals, 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](mailto:sales@memmert.com).



## Temperature

<b>Setting temperature range</b>	+20 to +80 °C
<b>Working temperature range</b>	at least 5 above ambient temperature to +80 °C
<b>Setting accuracy temperature</b>	0.1 °C
<b>Temperature sensor</b>	1 Pt100 sensor DIN class A in 4-wire-circuit

## Control technology

<b>Language setting</b>	German, English, Spanish, French, Polish, Czech, Hungarian
<b>ControlCOCKPIT</b>	SingleDISPLAY. Adaptive multifunctional digital PID-microprocessor controller with high-definition TFT-colour display
<b>Timer</b>	Digital backwards counter with target time setting, adjustable from 1 minute to 99 days
<b>Function SetpointWAIT</b>	the process time does not start until the set temperature is reached
<b>Calibration</b>	three freely selectable temperature values
<b>adjustable parameters</b>	temperature (Celsius or Fahrenheit), air flap position, programme time, time zones, summertime/wintertime

## Ventilation

<b>Convection</b>	natural convection
<b>Fresh air</b>	Admixture of pre-heated fresh air by electronically adjustable air flap
<b>Vent</b>	vent connection with restrictor flap

## Communication

<b>Documentation</b>	programme stored in case of power failure
<b>Programming</b>	AtmoCONTROL software for reading out, managing and organising the data logger via Ethernet interface (temporary trial version can be downloaded). USB stick with AtmoCONTROL software available as accessory (on demand).

## Safety

<b>Temperature control</b>	adjustable electronic overtemperature monitor and mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 20°C above nominal temperature
<b>Autodiagnostic system</b>	for fault analysis

## Standard equipment

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

## Stainless steel interior

<b>Interior</b>	easy-to-clean interior,made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides
<b>Volume</b>	449 l
<b>Dimensions</b>	w <sub>(A)</sub> x h <sub>(B)</sub> x d <sub>(C)</sub> : 1040 x 720 x 600 mm
<b>Max. number of internals</b>	8
<b>Max. loading of chamber</b>	300 kg
<b>Max. loading per internal</b>	30 kg

## Textured stainless steel casing

<b>Dimensions</b>	w <sub>(D)</sub> x h <sub>(E)</sub> x d <sub>(F)</sub> : 1224 x 1247 x 784 mm (d +56mm door handle)
<b>Installation</b>	on lockable castors
<b>Housing</b>	rear zinc-plated steel

## Electrical data

<b>Voltage</b>	230 V, 50/60 Hz
<b>Electrical load</b>	approx. 1800 W
<b>Voltage</b>	115 V, 50/60 Hz
<b>Electrical load</b>	approx. 1500 W

## Ambient conditions

<b>Set Up</b>	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.
<b>Altitude of installation</b>	max. 2,000 m above sea level
<b>Ambient temperature</b>	+5 °C to +40 °C
<b>Humidity rh</b>	max. 80 %, non-condensing
<b>Overvoltage category</b>	II
<b>Pollution degree</b>	2

## Packing/shipping data

<b>Transport information</b>	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>	w x h x d: 1330 x 1440 x 1050 mm
<b>Net weight</b>	approx. 161 kg
<b>Gross weight carton</b>	approx. 227 kg

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

