# Incubator IF450plus

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

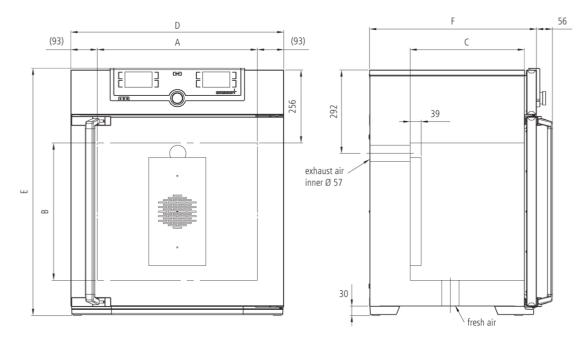


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Experts in Thermostatics

With the help of our model selection, with dimensioned model sketches and extensive technical data for download, you can find the right incubator for your needs. The flexibility and technical features of our appliances meet all possible needs. Put us to the test!

From 32 models, expandable with convenient, approved and tested accessories, you will easily find the incubator ideally suited to your needs. According to your individual application the two model variants cover all requirements of thermal safety, precision and quality assurance.



ControlCOCKPIT	adaptive multifunctional digital PID-microprocessor controller with 2 high-definition TFT-color displays
Temperature	2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value
Timer	Digital backwards counter with target time setting, adjustable from 1 minute to 99 days
Temperature	min. 10°C above ambient up to +80°C

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## **Control technology**

adjustable parameters	temperature (Celsius or Fahrenheit), fan speed, air flap position, program time, time zones, daylight savings time
Function HeatBALANCE	adapting the distribution of the heating performance of the upper and lower heating circuit from -50 $\%$ to +50 $\%$
Sterilization	fixed sterilization program (4 hours/160°C) for sterilization of working chamber, not for sterilizing the load
Function SetpointWAIT	the process time does not start until the set temperature is reached
Language setting	German/English/Spanish/French
Calibration	three freely selectable temperature values

#### Ventilation

Fan	forced air circulation by quite air turbine, adjustable in 10 % steps for each segment individually
Fresh air admixture	adjustment of pre-heated fresh air admixture by air flap control in 10 % steps for each segment individually
Vent	vent connection with restrictor flap

#### Communication

Programming	AtmoCONTROL software on a USB stick for programming, managing and transferring programs via Ethernet interface or USB port
Documentation	program stored in case of power failure

### Safety

Alarm	audible and visual
Temperature control	overtemperature monitor TWW, protection class 3.1 or adjustable temperature limiter TWB, protection class 2, selectable on display
AutoSAFETY	additionally integrated over- and undertemperature monitor "ASF", automatically following the set point value at a preset tolerance range, alarm in case of over- or undertemperature, heating is switched off in case of overtemperature
Temperature control	mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 20°C above nominal temperature
Autodiagnostic system	for fault analysis

Door	fully insulated stainless steel doors with 2-point locking (compression door lock)
Door	inner glass doors
Installation	on lockable castors
Internals	2 stainless steel grids
Scope of delivery	incl. works calibration certificate for +37°C
Housing	rear zinc-plated steel
Interior	easy-to-clean interior, made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides

#### Standard equipment

#### **Stainless steel interior**

$w_{(A)} \ge h_{(B)} \ge d_{(C)}$	: 40.9" x 28.4" x 23.6"
Volume 449 l	
Max. loading o	chamber: 661 lbs

#### Textured stainless steel casing

w<sub>(D)</sub> x h<sub>(E)</sub> x d<sub>(F)</sub>: 48.2" x 49.1" x 30.9"

#### **Electrical data**

230 V (+/- 10%), 50/60 Hz / approx. 7.8 amps	
115 V (+/- 10%), 50/60 Hz / approx. 13.0 amps	

#### Packing/shipping data

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 B x H x T: 52.4" x 56.7" x 41.3"
	Net weight approx. 355 lbs
	Gross weight carton approx. 501 lbs

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

