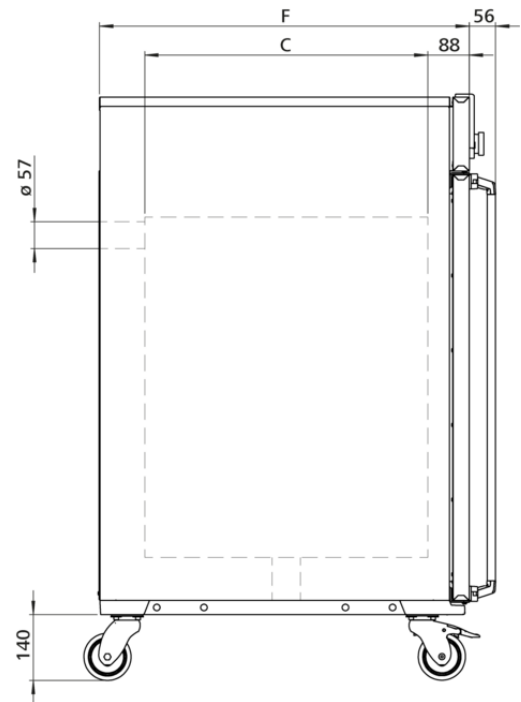
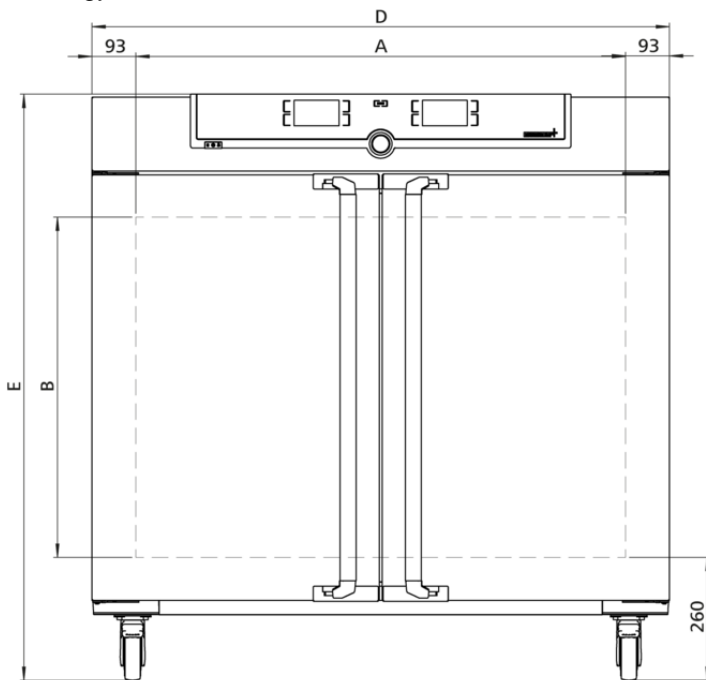


UN450mplus

The heating oven Um is a Class I medical device.

This universal oven made of high-quality hygienic, easy to clean stainless steel leaves nothing to be desired in terms of ventilation technology, control technology, overtemperature protection and perfectly tuned heating technology.



Temperature

Working temperature range	at least 5 (UN/UNplus/UNm/UNmplus) or 10 (UF/UFplus/UFm/UFmplus) above ambient temperature to +300 °C
Setting accuracy temperature	up to 99.9 °C: 0.1 / from 100 °C: 0.5
Setting temperature range	+20 to +300°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), air flap position, programme time, time zones, summertime/wintertime

Ventilation

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

Communication

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

Safety

Temperature control	mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 20°C above nominal temperature
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 setpoint value at a preset tolerance range, alarm in case of over- or undertemperature, heating is switched off in case of overtemperature
Autodiagnostic system	for fault analysis
Alarm	visual and acoustic

Standard equipment

Works calibration certificate	Calibration at +160°C
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Door	fully insulated stainless steel doors with 2-point locking (compression door lock)
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Internals	2 stainless steel grid(s), electropolished
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Stainless steel interior

Interior	easy-to-clean interior, made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides
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Volume	449 l
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Dimensions	$w_{(A)} \times h_{(B)} \times d_{(C)}$: 1040 x 720 x 600 mm
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Max. number of internals	8
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Max. loading of chamber	300 kg
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Max. loading per internal	30 kg
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Textured stainless steel casing

Dimensions	$w_{(D)} \times h_{(E)} \times d_{(F)}$: 1224 x 1247 x 784 mm (d +56mm door handle)
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Installation	on lockable castors
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Housing	rear zinc-plated steel
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Electrical data

Voltage	400 V and 3x 230 V w/o neutral, 50/60 Hz approx. 5800 W
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Electrical load	
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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.
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Altitude of installation	max. 2,000 m above sea level
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Ambient temperature	+5 °C to +40 °C
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Humidity rh	max. 80 %, non-condensing
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Overvoltage category	II
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Pollution degree	2
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Packing/shipping data

Transport information	The appliances must be transported upright
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Customs tariff number	8419 8998
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Country of origin	Federal Republic of Germany
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WEEE-Reg.-No.	DE 66812464
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Dimensions approx incl. carton	w x h x d: 1330 x 1440 x 1050 mm
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Net weight	approx. 161 kg
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Gross weight carton	approx. 227 kg
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Standard units are safety-approved and bear the test marks

