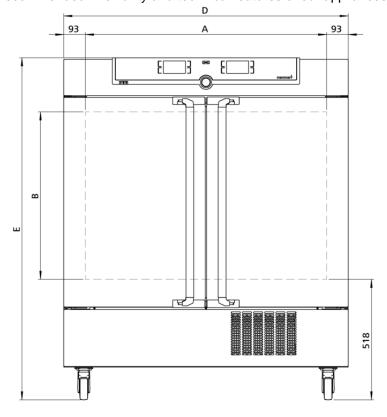


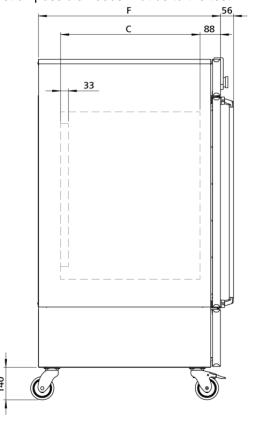
ICP450

Ideal for ramp operation with rapid temperature changes during incubation, breeding or storage.



With the help of our model selection, with dimensioned model sketches and extensive technical data for download, you can find the right cooled incubator ICP for your needs. For small volumes and for work predominantly in the proximity of the ambient temperature, the Memmert Peltier-cooled incubator is recommended. Flexibility and technical features of our appliances meet all possible needs. Put us to the test!





Temperature	
Setting temperature range	-12 to +60 °C
Working-temperature range	from -12°C up to +60°C (Optimum performance of cooling aggregate at an ambient temperature of +16°C up to +34°C. Not suitable for long-term storing at sub-zero temperatures. During permanent operation, the glass door may ice over.)
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, Italian, Chinese
Timer	Digital backwards counter with target time setting, adjustable from 1 minute to 99 days
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, programme time, time zones, summertime/wintertime
Communication	
Communication Documentation Programming	programme stored in case of power failure AtmoCONTROL software on a USB stick for programming, managing and transferring programmes
Documentation Programming	
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Documentation Programming Safety	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
Documentation Programming Safety Temperature control	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. 10°C above nominal temperature over- and undertemperature monitor TWW, protection class 3.3 or adjustable temperature limiter
Documentation Programming Safety Temperature control Temperature control	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. 10°C above nominal temperature over- and undertemperature monitor TWW, protection class 3.3 or adjustable temperature limiter TWB, protection class 2, selectable on display additionally integrated over- and undertemperature protection "ASF", automatically following the setpoint value at a preset tolerance range, alarm in case of over- or undertemperature, heating is
Documentation Programming Safety Temperature control Temperature control AutoSAFETY	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. 10°C above nominal temperature over- and undertemperature monitor TWW, protection class 3.3 or adjustable temperature limiter TWB, protection class 2, selectable on display additionally integrated over- and undertemperature protection "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, compressor in case of undertemperature
Documentation Programming Safety Temperature control Temperature control AutoSAFETY Autodiagnostic system	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. 10°C above nominal temperature over- and undertemperature monitor TWW, protection class 3.3 or adjustable temperature limiter TWB, protection class 2, selectable on display additionally integrated over- and undertemperature protection "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, compressor in case of undertemperature for fault analysis
Documentation Programming Safety Temperature control Temperature control AutoSAFETY Autodiagnostic system	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. 10°C above nominal temperature over- and undertemperature monitor TWW, protection class 3.3 or adjustable temperature limiter TWB, protection class 2, selectable on display additionally integrated over- and undertemperature protection "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, compressor in case of undertemperature for fault analysis
Documentation Programming Safety Temperature control Temperature control AutoSAFETY Autodiagnostic system Alarm	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. 10°C above nominal temperature over- and undertemperature monitor TWW, protection class 3.3 or adjustable temperature limiter TWB, protection class 2, selectable on display additionally integrated over- and undertemperature protection "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, compressor in case of undertemperature for fault analysis
Documentation Programming Safety Temperature control Temperature control AutoSAFETY Autodiagnostic system Alarm Heating concept	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. 10°C above nominal temperature over- and undertemperature monitor TWW, protection class 3.3 or adjustable temperature limiter TWB, protection class 2, selectable on display additionally integrated over- and undertemperature protection "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, compressor in case of undertemperature for fault analysis visual and acoustic
Documentation Programming Safety Temperature control Temperature control AutoSAFETY Autodiagnostic system Alarm Heating concept Air jacket	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. 10°C above nominal temperature over- and undertemperature monitor TWW, protection class 3.3 or adjustable temperature limiter TWB, protection class 2, selectable on display additionally integrated over- and undertemperature protection "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, compressor in case of undertemperature for fault analysis visual and acoustic

Standard equipment

Works calibration certificate	for +10°C and +37°C
Door	inner glass doors
Door	fully insulated stainless steel doors with2-point locking (compression door lock)
Internals	2 stainless steel grid(s), electropolished

Stainless steel interior

Dimensions	w _(A) x h _(B) x d _(C) : 1040 x 720 x 600 mm (d less 33 mm for fan)
Volume	449
Max. number of internals	8
Max. loading of chamber	200 kg
Max. loading per internal	30 kg

Textured stainless steel casing

Dimensions	w _(D) x h _(E) x d _(F) : 1224 x 1467 x 784 mm (d +56mm door handle)
Installation	on lockable castors
Housing	rear zinc-plated steel

Electrical data

Voltage	230 V, 50/60 Hz
Electrical load	approx. 1200 W
Voltage	115 V, 50/60 Hz
Electrical load	approx. 1200 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.
Ambient temperature	15 °C to 28 °C (up to 34 °C with limited temperaturerange)
Humidity rh	max. 70 %, non-condensing
Altitude of installation	max. 2,000 m above sea level
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: 1330 x 1700 x 1050 mm
Net weight	approx. 217 kg
Gross weight carton	approx. 282 kg

Standard units are safety-approved and bear the test marks

