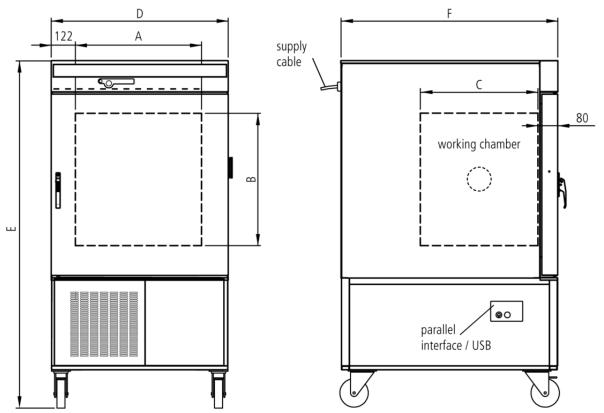


TTC256

Memmert environmental test chambers guarantee the perfect atmosphere for climate and temperature tests





Temperature range	from -42°C up to +190°C
Setting accuracy temperature	up to 99.9 °C: 0.1 / from 100 °C: 0.5
Temperature distribution (spatial)	+/- 0.5 up to 2K
Temperature sensor	2 Pt100 sensors DIN Class A in 4-wire-circuit for mutual monitoring, taking over functions in case of a error
Display	resolution of display for setpoint values 0.1°C up to 99.9°C, 0.5°C from 100°C and for actual values 0.1°C (LED)
Control technology	
Calibration	three freely selectable temperature values
Controller	Electronic microprocessor temperature controller with auto-diagnostic system
Set-up Display	digital display of all set parameters, such as temperature, weekdays, time, humidity, fan speed, programme status and set-up values - language to be chosen via set-up
Timer	integrated timer for tempering profiles of up to 40 ramps each, each segment adjustable from 1 min. to 999 hrs.
Ventilation	
Fan	high-performance air fan in working chamber
Fan control	depending on operation status automatic adaption of fan speed resp. manual adjustment from 10 to 100 %
Communication	
Interface USB	USB-interface incl. Memmert software "Celsius" for programming and documentation
Interface Printer	parallel printer interface (incl. real time clock with date function) for all PCL3-compatible ink jet printers for GLP-conforming documentation
Documentation	integrated ring memory as data logger for GLP-conforming long-term documentation of all relevant parameters - 1024 kB
Documentation	programme stored in case of power failure
Programming	chip-card control incl. 1 MEMoryCard XL with 32 kB storage capacity (max. 40 ramps)
Safety	
Safety Temperature control	mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 10°C above nominal temperature
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Temperature control	approx. 10°C above nominal temperature
Temperature control	approx. 10°C above nominal temperature over- and undertemperature monitor TWW, protection class 3.3 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

Heating concept

Door	door heating to avoid condensation
Ring heater	high-performance ring heaters with optimised air circulation
Cooling	twin compressor; refrigerant R449A

Standard equipment

Works calibration certificate	standard values -20 °C and +160 °C
Door	fully insulated stainless steel door with double-locking and 4-point adjustment, heated
Entry port	Entry port right, 80 mm, with stopper
Internals	1 stainless steel grid(s), electropolished
Interior	Easy-to-clean stainless steel interior, materil 1.4301 (ASTM 304), hermetically welded

Stainless steel interior

Volume	256 l
Dimensions	w _(A) x h _(B) x d _(C) : 640 x 670 x 597 mm
Max. number of internals	6
Max. loading per internal	25 kg

Textured stainless steel casing

Dimensions	w _(D) x h _(E) x d _(F) : 898 x 1730 x 1100 mm (d +50mm door handle)
Installation	on lockable castors
Housing	rear zinc-plated steel

Electrical data

Electrical load 400 V, 3ph. w/o N 16A, 50 Hz / approx. 7000 W

Ambient conditions

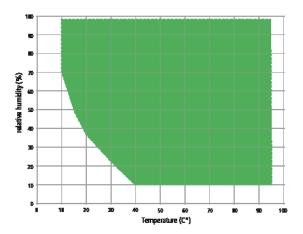
Set Up	The distance between the test chamber and the walls/ceiling must be at least 25 cm.
Ambient temperature	16 °C to 28 °C
Humidity rh	max. 70 %, non-condensing
Altitude of installation	max. 2,000 m above sea level
Pollution degree	2

Packing/shipping data

Transport information	The appliances must be transported upright
Customs tariff number	8419 8998
Country of origin	Federal Republic of Germany
Dimensions approx incl. carton	w x h x d: 1020 x 1910 x 1310 mm
Net weight	approx. 337 kg
Gross weight carton	approx. 463 kg

Temperature-humidity working range CTC

Not all climate chambers are the same. The humidity content of the chamber load, the ambient conditions and the respective temperature-humidity working range are decisive factors in the selection of the right appliance. In the adjacent diagram, you can see the possible temperature/humidity combinations for our climatic test chamber CTC. Within the respective temperature-humidity range, condensation-free permanent operation is possible. To which extent condensation may occur in the threshold range depends on the humidity content of the chamber load and the ambient conditions.



Temperature-humidity working range CTC

Standard units are safety-approved and bear the test marks

