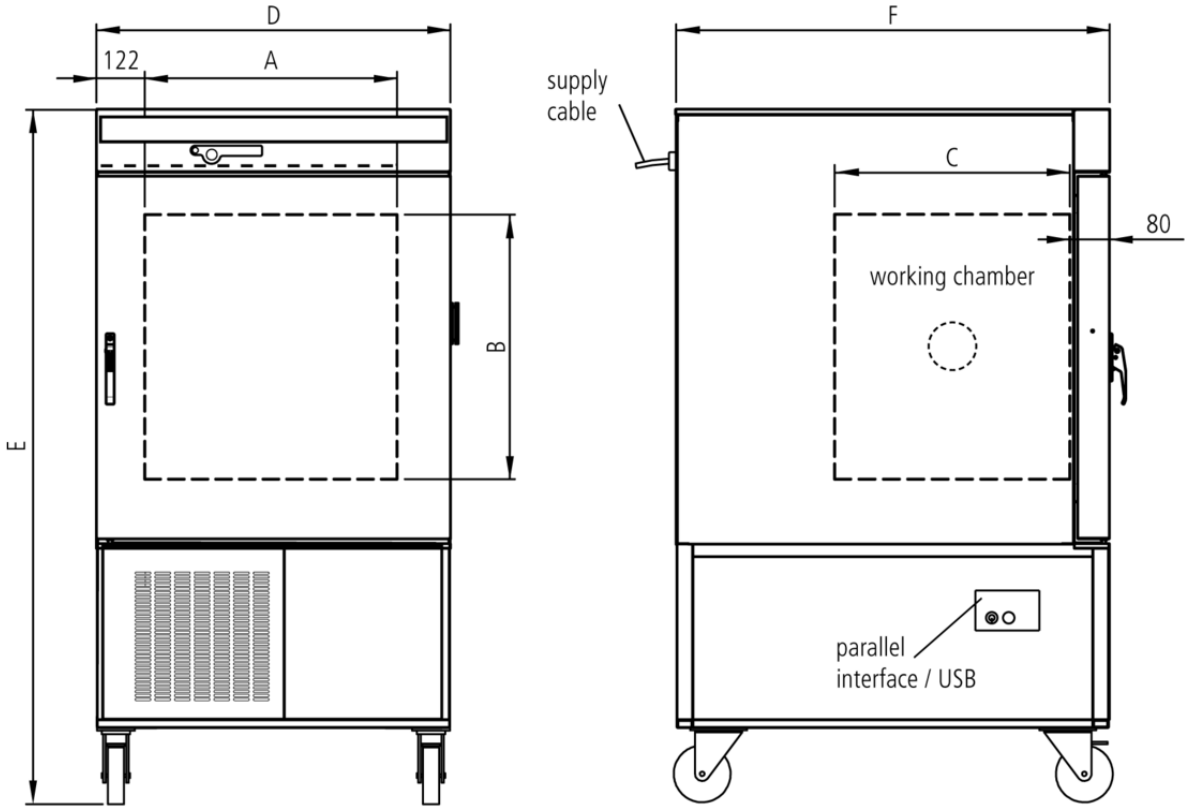
CTC256

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





Memmert GmbH + Co. KG | Tel. +49 (0) 9122/925-0 | E-Mail info@memmert.com

Temperature

Setting accuracy temperature	up to 99.9 °C: 0.1 / from 100 °C: 0.5
Temperature range	without humidity: from -42°C up to +190°C
Temperature range	with humidity from +10°C up to +95°C
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 an 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)

Humidity

Humidity control	active humidifying and de-humidifying adjustable from 10-98 % rh with digital display of relative humidity - resolution of display 0.5 %, setting accuracy 1 %
Humidification	

Control technology

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.
Calibration	three freely selectable temperature values, humidity 2-point calibration at 20% and 90 % rh

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

Temperature control	mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 10°C above nominal temperature
Temperature control	over- and undertemperature monitor TWW, protection class 3.3
AutoSAFETY	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
Autodiagnostic system	integral fault diagnostics for temperature and humidity control
Alarm	with visual and acoustic alarm in case of over-/under temperature and underhumidity, open door and empty water tank

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, +30 °C at 60 % rh
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

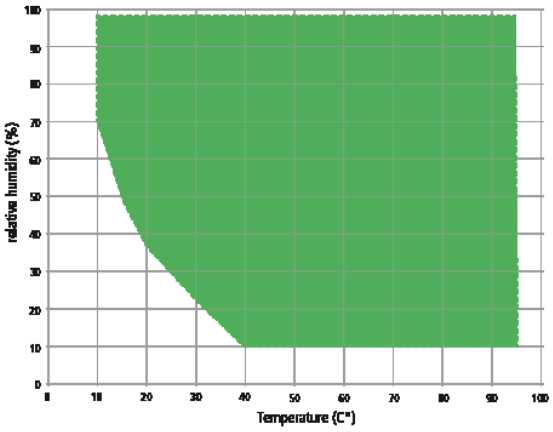
Set Up	The distance between the test chamber and the walls/ceiling must be at least 25 cm.
Ambient temperature	16 ºC to 28 ºC
Humidity rh	max. 70 %, non-condensing
Altitude of installation	max. 2,000 m above sea level
Pollution degree	2

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

