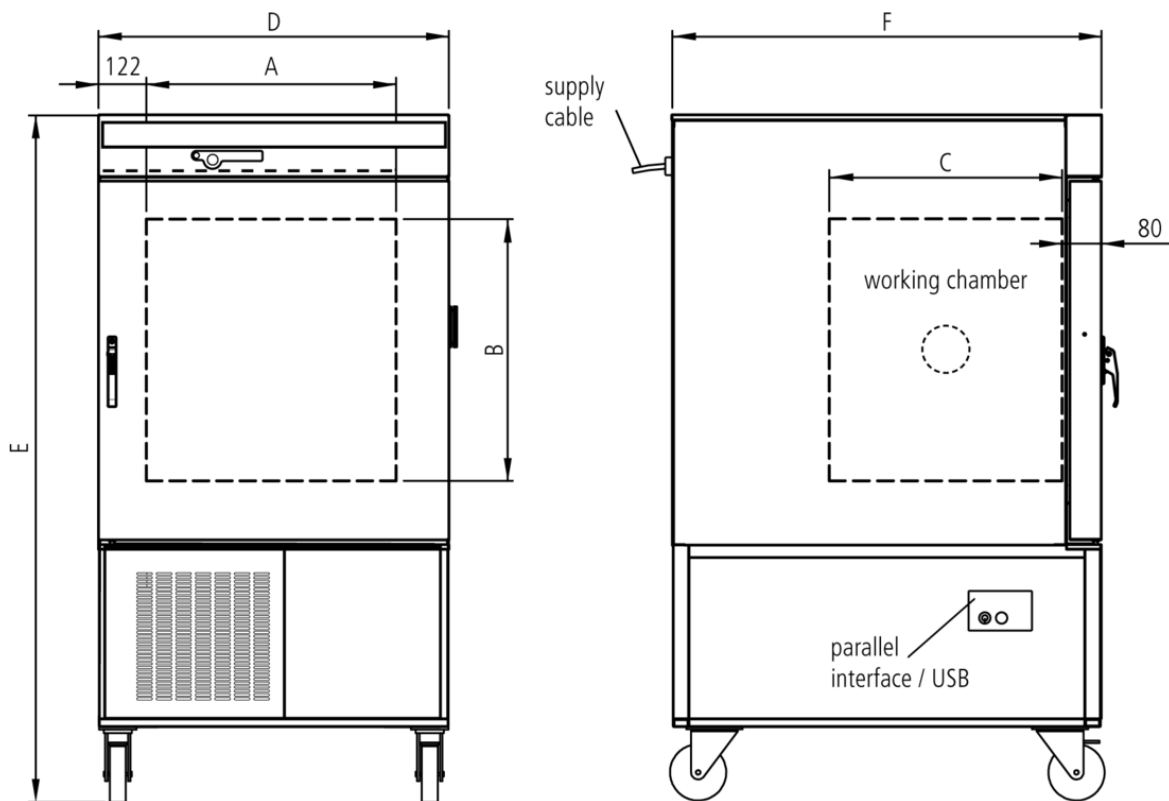


Environmental test chambers CTC256

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



On this page, you can find all the essential technical data on the Memmert environmental chamber CTC for climate testing and temperature testing. Our customer relations team will be pleased to help if you want further information. If you should require a customized special solution, please contact our technical specialists at sales@memmert.com.



Temperature

Temperature range without humidity: from -42°C up to +190°C

Temperature range with humidity from +10°C up to +95°C

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 resolution 1 %

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, program 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 program 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 under humidity, open door and empty water tank

Heating concept

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

Standard equipment

Works calibration certificate	standard values -20 °C and +160 °C, +30 °C at 60 % rh
Entry port	Entry port right, 80 mm, with stopper
Shelving	1 stainless steel grids, electropolished
Door	fully insulated stainless steel door with double-locking and 4-point adjustment, heated
Interior	easy-to-clean stainless steel interior, material 1.4301 (ASTM 304), hermetically welded

Stainless steel interior

Volume	256 l / 9 cu ft
Dimensions	$w_{(A)} \times h_{(B)} \times d_{(C)}$: 25.2 x 26.4 x 23.5 inches
Max. number of shelves	6
Max. loading per shelf	55 lbs

Textured stainless steel casing

Dimensions	$w_{(D)} \times h_{(E)} \times d_{(F)}$: 35.4 x 68.1 x 43.3 inches (d +2" door handle)
Installation	on lockable castors
Housing	rear zinc-plated steel

Electrical data

Electrical load 230 V (± 10%), 60 Hz; approx. 7000 W / 30.5 A

Ambient conditions

Set Up The distance between the test chamber and the walls/ceiling must be at least 10 inches.

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

WEEE-Reg.-No. DE 66812464

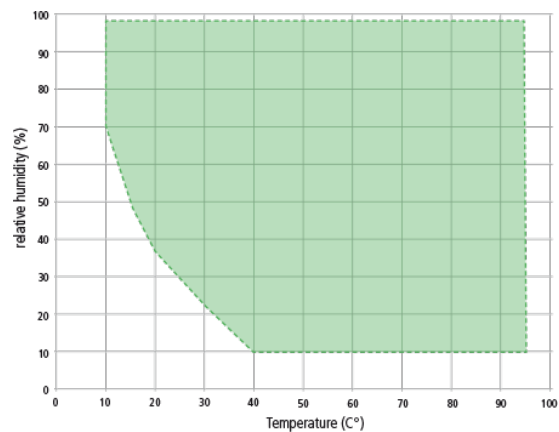
Dimensions approx incl. carton w x h x d: 41 x 76 x 53 inches

Net weight approx. 743 lbs

Gross weight carton approx. 1021 lbs

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

