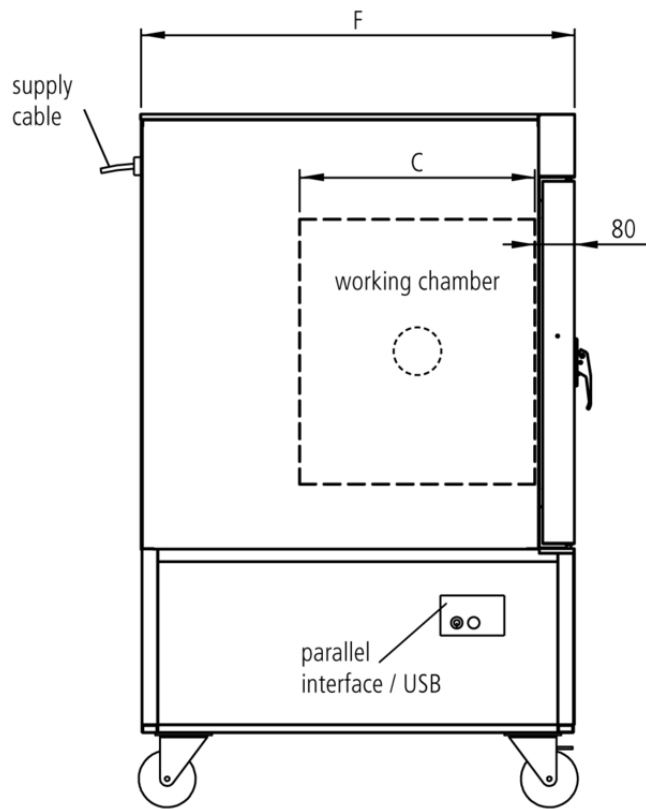
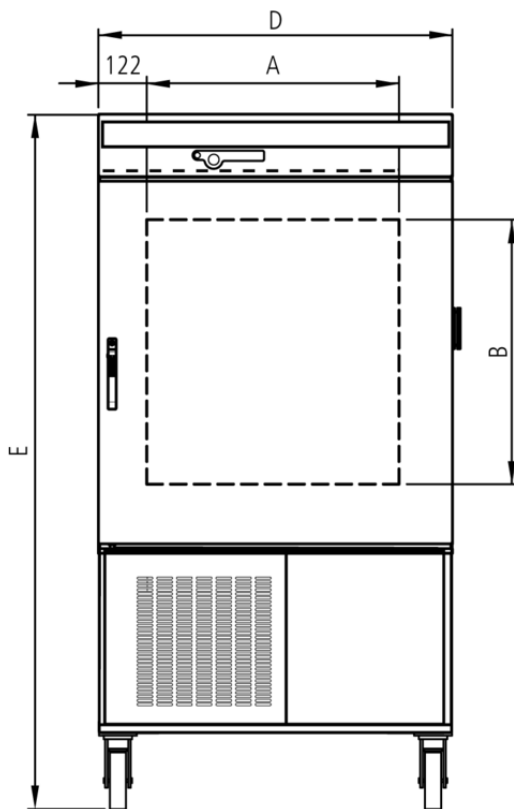


## CTC256

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



## Temperature

<b>Setting accuracy temperature</b>	up to 99.9 °C: 0.1 / from 100 °C: 0.5
<b>Temperature range</b>	without humidity: from -42°C up to +190°C
<b>Temperature range</b>	with humidity from +10°C up to +95°C
<b>Temperature distribution (spatial)</b>	+/- 0.5 up to 2K
<b>Temperature sensor</b>	2 Pt100 sensors DIN Class A in 4-wire-circuit for mutual monitoring, taking over functions in case of an error
<b>Display</b>	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

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

## Control technology

<b>Controller</b>	Electronic microprocessor temperature controller with auto-diagnostic system
<b>Set-up Display</b>	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
<b>Timer</b>	integrated timer for tempering profiles of up to 40 ramps each, each segment adjustable from 1 min. to 999 hrs.
<b>Calibration</b>	three freely selectable temperature values, humidity 2-point calibration at 20% and 90 % rh

## Ventilation

<b>Fan</b>	high-performance air fan in working chamber
<b>Fan control</b>	depending on operation status automatic adaption of fan speed resp. manual adjustment from 10 to 100 %

## Communication

<b>Interface USB</b>	USB-interface incl. Memmert software "Celsius" for programming and documentation
<b>Interface Printer</b>	parallel printer interface (incl. real time clock with date function) for all PCL3-compatible ink jet printers for GLP-conforming documentation
<b>Documentation</b>	integrated ring memory as data logger for GLP-conforming long-term documentation of all relevant parameters - 1024 kB
<b>Documentation</b>	programme stored in case of power failure
<b>Programming</b>	chip-card control incl. 1 MEMoryCard XL with 32 kB storage capacity (max. 40 ramps)

## Safety

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

## Heating concept

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

## Standard equipment

<b>Works calibration certificate</b>	standard values -20 °C and +160 °C, +30 °C at 60 % rh
<b>Door</b>	fully insulated stainless steel door with double-locking and 4-point adjustment, heated
<b>Entry port</b>	Entry port right, 80 mm, with stopper
<b>Internals</b>	1 stainless steel grid(s), electropolished
<b>Interior</b>	Easy-to-clean stainless steel interior, materil 1.4301 (ASTM 304), hermetically welded

## Stainless steel interior

<b>Volume</b>	256 l
<b>Dimensions</b>	$w_{(A)} \times h_{(B)} \times d_{(C)}$ : 640 x 670 x 597 mm
<b>Max. number of internals</b>	6
<b>Max. loading per internal</b>	25 kg

## Textured stainless steel casing

<b>Dimensions</b>	$w_{(D)} \times h_{(E)} \times d_{(F)}$ : 898 x 1730 x 1100 mm (d +50mm door handle)
<b>Installation</b>	on lockable castors
<b>Housing</b>	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

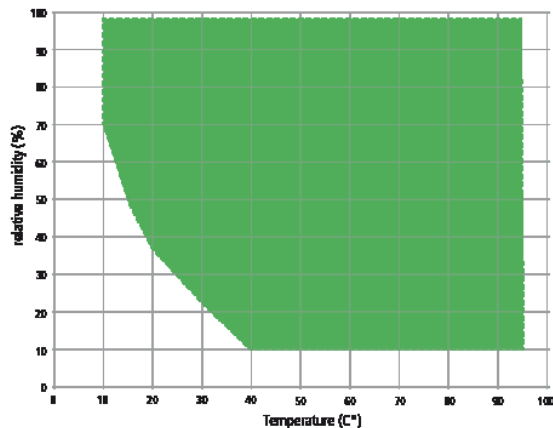
**Dimensions approx incl. carton** w x h x d: 1020 x 1910 x 1310 mm

**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**

