



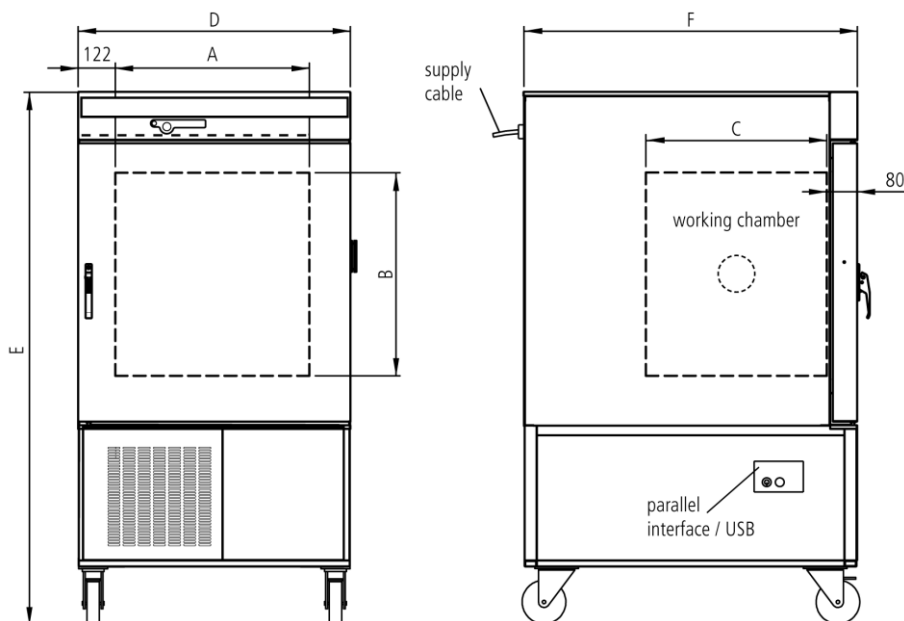
## Environmental test chambers

### CTC256

The environment test duo for temperature test and climate test simulates the perfect atmosphere according to standards and reduces the time needed for certain processes through rapid temperature changes.



On this page, you can find all the essential technical data on the Memmert environmental chamber CTC/TTC for climate testing and temperature testing. Our customer relations team will be pleased to help if you want further information.



## Control of standard components

<b>Controller</b>	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
<b>Humidity</b>	active humidifying and de-humidifying control (10-98 %) with digital display of relative humidity - resolution of display 0.5 %, setting accuracy 1 %
<b>Humidity</b>	humidity supply with distilled water from 2 x 10 l tank on telescopic slide integrated in chamber, with automatic change-over
<b>Humidity</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 %
<b>Humidity</b>	humidity supply with distilled water from external tank by self-priming pump
<b>Humidity</b>	humidification by hot steam generator
<b>Controller</b>	adaptive, fuzzy-supported multifunctional digital microprocessor PID-controller
<b>Temperature</b>	2 Pt100 sensors Class A in 4-wire-circuit, mutually monitoring and taking over the performance at the same temperature value
<b>Timer</b>	digital 7-day program timer with real time clock, precise minute setting
<b>Timer</b>	integrated timer for tempering profiles of up to 40 ramps each, each segment adjustable from 1 min. to 999 hrs.
<b>Humidity</b>	2 x 10 l tanks as condensate collector

## Temperature

	with humidity from +10°C up to +95°C
	resolution of display for set point values 0.1°C up to 99.9°C, 0.5°C from 100°C and for actual values 0.1°C (LED)
	without humidity: from -42°C up to +190°C
<b>temperature distribution (spatial)</b>	+/- 0.5 up to 2K

## Control technology

<b>Calibration</b>	three freely selectable temperature values
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## Ventilation

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

## Communication

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

## Safety

<b>Autodiagnostic system</b>	integral fault diagnostics for temperature and humidity control
<b>Alarm</b>	with audible and visual alarm in case of over-/under temperature and underhumidity, open door and empty water tank
<b>Alarm</b>	audible and visual
<b>Temperature control</b>	over- and undertemperature monitor TWW, protection class 3.3 or adjustable temperature limiter TWB, protection class 2, adjustable at controller
<b>AutoSAFETY</b>	additionally integrated over- and undertemperature protection "ASF", automatically following the set point 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>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

## Heating concept

high-performance ring heaters with optimized air circulation

door heating to avoid condensation

twin compressor

speed adjustable condenser fan

chlorine-free refrigerant R404A

## Standard equipment

<b>Door</b>	fully insulated stainless steel door with double-locking and 4-point adjustment, heated
<b>Housing</b>	rear zinc-plated steel
<b>Installation</b>	on lockable castors
<b>Interior</b>	easy-to-clean stainless steel interior, material 1.4301 (ASTM 304), hermetically welded
<b>Internals</b>	1 stainless steel grid

### Stainless steel interior

#### Dimensions W x H x D in inches

$w_{(A)} \times h_{(B)} \times d_{(C)}$ : 25.2" x 26.4" x 23.5"

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Volume 256 l

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### Textured stainless steel casing

$w_{(D)} \times h_{(E)} \times d_{(F)}$ : 35.4" x 68.1" x 43.3"

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### Electrical data

230 V (+/- 10%), 50/60 Hz / approx. 32 amps

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### Packing/shipping data

#### the appliances must be transported upright

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Customs tariff number	8419 8998
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Country of origin	Federal Republic of Germany
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WEEE-Reg.-No.	DE 66812464
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Dimensions approx incl. carton B x H x T: 40.2" x 75.2" x 51.6"

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Net weight approx. 743 lbs

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Gross weight carton approx. 1021 lbs

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### Standard units are safety-approved and bear the test marks

