

PRODUCT SPECIFICATION - CT1000EC40-10K

Environmental test chamber TESTA CT1000EC40-10K



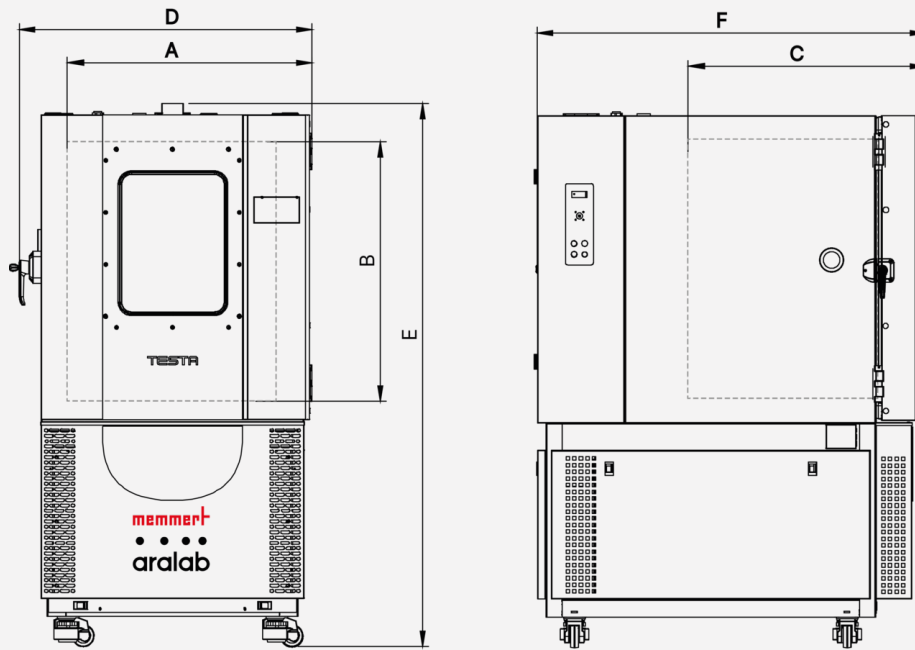
TESTA TT / TESTA CT – Reliable and precise environmental test chambers.

TESTA CT and TESTA TT environmental test chambers expand the Memmert portfolio, offering high-performance solutions for environmental simulation.

With a wide temperature range from -75 to $+180$ °C, controlled humidity from 10 to 98 % RH and temperature change rates of up to 10 K/min, these devices are the perfect choice for diverse applications in research and quality assurance.

Key Performance Features

- Temperature Change Rates: up to 10K/h
- State-of-the-Art Connectivity
- Flexible Interior Design
- Premium Quality



Temperature

Setting temperature range	°C	-75 to +180
Setting accuracy	°C	0.1
Temporal temperature deviation		± 0.1 to ± 0.3
Temperature control system		By stainless steel electric heaters located in the air treatment tunnel

Humidity

Setting range	% rh	10 bis 98 %rh
Setting accuracy	% rh	0.1
Humidification system		<ul style="list-style-type: none"> • Humidity: Through thermostatic bath with dew point control • Drying: Through thermostatic bath with dew point control and additional dry coil

Features

Control unit		Touch screen controller
Adjustable parameters		<ul style="list-style-type: none"> • Temperature • Relative humidity
Adjustable device functions		<ul style="list-style-type: none"> • Climate control regulation • Real-time display of process variables • Program execution • Alarm definition • and much more
Interfaces		Ethernet LAN

Safety

Temperature monitoring		<ul style="list-style-type: none"> • 1 Pt100 sensor DIN class A • 1 Pt100 sensor DIN class A, movable sensors for flexible placing inside chamber • Capacitive humidity sensor EC
Temperature monitoring		Safety thermostat with High / Low temperature configuration, with automatic stop of all thermic systems
Alarm		<ul style="list-style-type: none"> • Automatic stop function in case of water failure, with indication on the controller • High / Low humidity alarms • High / Low Temperature alarms

Heating concept

Cooling system		Water-cooled condensers are also available as standard in -75°C models or an option for models with temperature cooling rate upgrades.
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Standard equipment

Door		Lockable door, double silicone door gaskets and anti-condensation heating frames
Standard option		<ul style="list-style-type: none"> • Entryport Ø 80 mm, left • Door locking, mechanical
Type standard insert		Stainless steel perforated shelf
Number of slide-in units		2
Other standard accessories		<ul style="list-style-type: none"> • Water conductivity measuring device • Documentation package

Stainless steel interior

Volume	l	967
Width	mm	984
Height	mm	910
Depth	mm	1052
Max. number of grids/shelves	number	10
Max. loading of chamber	kg	200
Max. loading of grids/shelves	kg	50

Textured stainless steel casing

Width	mm	1359
Height	mm	2010
Depth	mm	1845
Installation		on height-adjustable and lockable castors

Electrical data

Electrical load; 400 V or 3x230 V	kW	44
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Ambient conditions

Distance to neighbouring appliances / wall clearances	back	mm	1000
	lateral	mm	500

Packing/shipping data

Transportinformation		The appliances must be transported upright
Customs tariff number		8419 8998
Country of origin		PT
Packaging	Width	mm 1590
	Height	mm 2190
	Depth	mm 2090
Weight	net	kg 910
	gross	kg 950

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

