



CLIMATIC AND TEMPERATURE
TEST CHAMBERS

CCK/CETM-T, SERIES

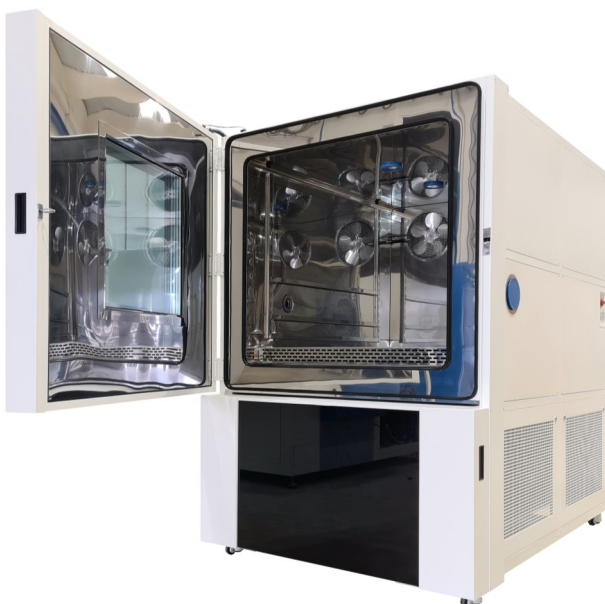
Climatic tests allow the reproduction on samples of the climatic conditions of temperature and humidity, to which they will be submitted during their lifetime. In this way, their behaviour in the environmental conditions of use, transport or storage will be predicted, preventing the defective product from coming onto the market.

CONSTRUCTION

- Built on a zinc-coated steel tube and sheet structure, painted white.
- Stainless steel interior, completely watertight and without internal welding.
- Thermal insulation formed by polyurethane and rock wool.
- Door with observation window made of stainless steel inside and outside.
- New weatherstripping with double closing, to guarantee greater watertightness.
- Interior watertight light with switch on from the touch panel.
- Automatic electromagnetic closing, without pressure, with opening from the touch panel.

GENERAL FEATURES

- New design, new finished.
- Standard volumes between 48 and 3000 liters.
- Rangos de temperatura de -70°C hasta +180°C.
- Touch screen color panel.
- According with standards: UNE, DIN, MIL, ISO...
- Custom designs.



- Forced draught air circulation by fans located at the rear of the chamber.
- 4 height-adjustable wheels to facilitate the mobility, fixation and leveling of the chamber.
- Access-ports, made of silicone with a watertight cap of 80 mm ø (various diameters).
- 2 Sample-holder trays made of stainless steel.
- Steam humidification system by overpressure, facilitating the entry and subsequent mixing in the general air ducts.
- Heating system by means of stainless steel heating elements.
- Select the colour of the chamber with your corporate colour.

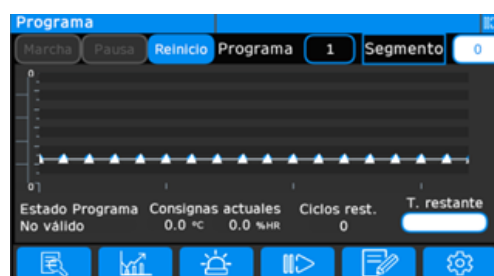
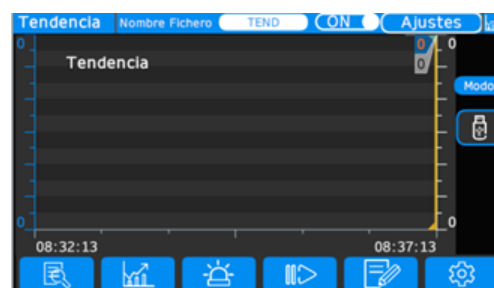
CONTROL

The intelligence of the system is based on a distributed control that includes advanced PID blocks of temperature / humidity and integrates the governance of the actuators, optimizing performance. Monitoring and control access via backlit colour touch screen.

The control has an intuitive and easy to use presentation by means of graphic symbols, with access to the different functionalities and registers.

Using the screen, you can create, edit and enable programs as well as display the test profile in a graphic environment, the operating time and access the test data log via a USB port. The communications interface will allow communication with the multi-chamber control and recording software for PC.

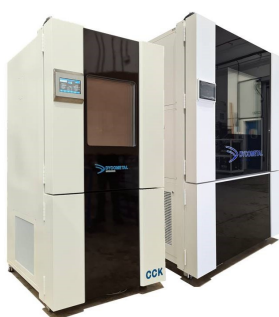
- 4.7" or 7" colour screen depending on the model
- Access control through PASSWORD Security with different access levels.
- Direct humidity reading of temperature and relative humidity, actual and setpoint values.
- AUTO/MANUAL mode.
- Delayed start.
- Programme editing.
- Monitoring of parameter trends.
- Display of the graphic test profile.
- General description of established and current parameters during operation.
- Programming of infinitive days.
- Possibility of parameter calibration by the user.
- Real time clock.
- Alarm management by means of text message on the control screen of the climatic chamber, giving notice of the incident, date, time and type of incident.
- Languages: Spanish, English, French and Italian. (Other languages on demand).



TECHNICAL SPECIFICATIONS

MODEL	CCK-T	CLIMATIC	40/81	40/125	40/180	40/300	40/480	40/648	40/1000	40/1500	40/2000									
	CETM-T	THERMAL	70/81	70/125	70/180	70/300	70/480	70/648	70/1000	70/1500	70/2000									
Volume		Litres	81	125	180	300	480	648	1012	1500	2000									
Internal Dimensions	Height	mm	450	500	600	700	800	900	920	1000	1000									
	Width	mm	450	500	600	700	800	900	1000	1000	1000									
	Depth	mm	450	500	500	625	750	800	1100	1500	2000									
	Height	mm	1293	1550	1743	1843	1943	1995	2140	2270	2270									
External Dimensions	Width	mm	974	790	900	1000	1093	1193	1293	1293	1293									
	Depth	mm	820	870	1050	1220	1185	1290	1605	2225	2650									
	Temperature Test																			
Minimum Temperature ⁽¹⁾	°C	-40	-70	-40	-70	-40	-70	-40	-70	-40	-70									
Maximum Temperature	°C	+150 to +180																		
Cooling temperature change rate ⁽²⁾	°C/min	1,5	2	1,5	2	2,5	2	3	2	2,5	2	2,5	2	2,5	2	2	1,5	2	1,5	
Heating temperature change rate ⁽²⁾	°C/min	3,5	3	3,5	3	3,5	4	4	4	4	4	4	4	4	4	4	3,5	3,5	3,5	3,5
Temperature Stability	°C	±0,1 °C to ±0,3 °C																		
temperature Uniformity	°C	±0,5 °C to ±1,5 °C																		
Maximum compensation ⁽³⁾	KW	1,2	0,7	1,2	0,7	2	1,5	2	1,5	2	2	2	2	2,5	2	3,5	3	3,5	3	
Climatic Test																				
Temperature Range	°C	+10 °C to +90 °C																		
Humidity Range	% HR	10 % to 98 %																		
Dew point - Category 1	°C	6,5 °C to 86 °C																		
Dew point - Category 2	°C	Until -5 °C (Limited on time)																		
Humidity stability	% HR	±1 %RH to ±3 %RH																		
Maximum compensation ⁽⁴⁾	KW	0,1	0,25	0,1	0,25	0,4	0,4	0,4	0,4	0,4	0,4	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,5	
Power																				
Nominal power (kW aprox)	kW	4,3	6	5,2	7,5	6,1	7,8	7,8	9	9,5	10,1	10,7	11,8	12	13,4	16	18	20	22,9	
Weight (aprox.)	Kg	220	250	250	275	400	425	550	575	700	750	850	920	1000	1080	1120	1200	1280	1340	
Voltage	V	400V 3N~PE																		
Condenser		Air cooled																		
Noise level (dB aprox.)	dB	<60																		

Note: (1) Other temperature ranges: room +10°C, 0°C y -25°C. (1) Other temperature ranges: room +10°C, 0°C y -25°C.
 (2) Temperature change rates according with IEC EN 60068-3-5, without load. (2) Temperature change rates according with IEC EN 60068-3-5, without load.



Optional Elements

- Additional Access-ports of different diameters.
- Additional shelves.
- Air drying system.
- Sample protection.
- External demineralised water tank.
- Independent data logger.
- Analogue and/or digital outputs.
- Fan speed control.
- Ethernet communications port.

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