DYCOMETAL

Testing Technology

CLIMATIC CHAMBERS

CCK NG SERIES

The NG format is an update on the design of our climatic chamber CCK with new features and a more contemporary design. The attractive new image of the equipment also allows easier access to control and operation actions, thanks to the new control ACTA (Advanced Testing Climate Automation), developed by Dycometal.

GENERAL FEATURES

- New design, new finished.
- Standard volumes between 110 and 1500 liters.
- Temperature range from -70°C to +180°C.
- Touch screen color panel.
- According with standards: UNE, DIN, MIL, ISO...
- Custom designs.

CONSTRUCTION

- Door opening of 180°, with electromagnetic lock. Opening from the touch screen of the controller.

- Large window centered on the door, consisting of four windows in vacuum sealed Sekurit tempered glass.

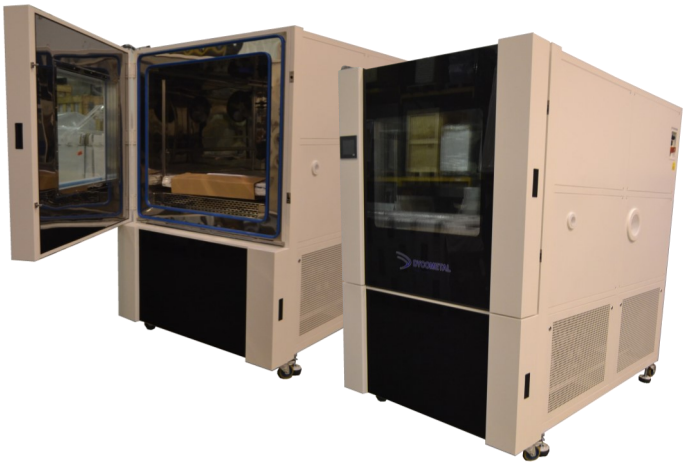
- New double closure rubber seal, which ensures a better tightness.

- Interior lighting with silicone sealed envelope, which prevents the condensation and the steam leakage. Switching on and off from the touch screen of the controller.

- One 80 mm Ø satainless steel port, with a sealed lid.

- Four lifting wheels with fixing feet.

- Two stainless steel shelves with adjustable height.



- Interior entirely made of stainless steel. New rounded interior finish without seams or screws, in order to prevent the deposition of difficult to remove waste.

- Exterior made of galvanized steel and powder coated with epoxy resins and polyamide RAL 9010.

- Stainless steel door, painted with epoxy resins and polyamide RAL 9010.

- Esthetic details in translucent black for the door and the technical zone, brand lit by LED.

- Heating system consisting of heating elements, entirely made of stainless steel.

- Cooling system refrigerated by air. A timed BY-PASS system allows a better regulation of cooling PID parameters and ensures a better durability and performance of the compressor.

- The humidification system by steam generation, entirely made of stainless steel.

CONTROL

• 4.7” color touch screen display. Analog resistive type.

• Capacity for 50 test programs.

• Number of possible segments in the programmer: 500.

• Displaying of the test profiles.

• Continuous recording of all variables, setpoints, status, events, test messages.

• Simple and adjustable presentation of the user functions: status of T/RH, expanded display of the indicators of the process variables, immediate access to the T / HR setpoints. Direct visualization of the state of the equipment.

• Different levels of user access (Security PASSWORD).

• Simple programming of the profiles of the setpoint:

- Create, modificate, insert and erase segments.
- Viewing of the program steps during its creation.
- Selection of repetitions of intermediate sections.
- Adjusting of the actions of the device after the ending of the test.
- Deferred start days/hours.
- Import and export of the program test profiles.

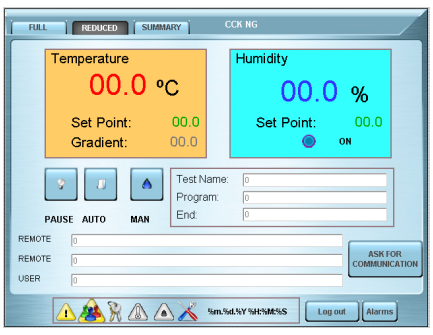
• Analogical or digital coordination signals (process value input external setpoint).

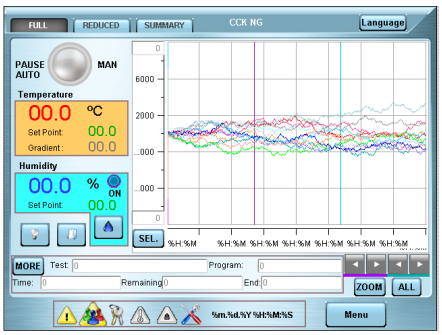
• USB port for data extraction.

• Ethernet port for integration in the network.

• Complete manager of the incidents and events, with a presentation and register of the test stages in the events editor. (Identification and chronology). Schematic Screen displays with complete register of alarms.

• Remote control software.





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TECHNICAL SPECIFICATIONS

MODELS		CCK-40/...NG CCK-70/...NG	40/110 70/110		40/210 70/210		40/300 70/300		40/510 70/510		40/1000 70/1000	
Volume		Liters	110		210		300		510		1000	
Internal Dimensions	Height	mm	500		700		800		850		1000	
	Width	mm	450		600		654		800		1100	
	Depth	mm	480		500		572		750		900	
External Dimensions	Height	mm	1227		1785		1870		1886		2136	
	Width	mm	758		910		962		1112		1212	
	Depth	mm	1004		1040		1100		1230		1480	
Temperature Test												
Minimum Temperature (1)		°C	-40	-70	-40	-70	-40	-70	-40	-70	-40	-70
Maximum Temperature		°C	+180									
Cooling temperature change rate (2)		°C/min	1,5	2	2,5	2	3	2	2,5	2	2,5	2
Heating temperature change rate(2)		°C/min	3,5	3	3,5	4	4	4	4	4	4	4
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	2	1,5	2	1,5	2	2	2,5	2
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 in time)									
Humidity stability		%HR	±1%HR to ±3%HR									
Maximum compensation (4)		KW	0,1	0,25	0,4	0,4	0,4	0,4	0,4	0,4	0,5	0,5
Power												
Nominal power (kW aprox)		kW	4,3	6	5,2	7,5	6,1	7,8	7,8	9	12	13,4
Weight (aprox.)		Kg	250	275	400	425	550	575	700	750	1000	1080
Voltage		V	400V 3N~PE									
Condenser			Air cooled									
Noise level (dB aprox.)		dB	<60									

Notes:

(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.

(3) In thermal test, at 25°C

(4) In Climatic test with range of +25°C at +80°C and <90%RH

Optional Elements

- Additional access port with several options of diameter.
- Additional shelves.
- Extended humidity/dry system.
- Temperature sample protection.
- External demi water reservoir.
- Independent data recorder unit.
- Analogical/digital outputs or inputs.
- Fan speed control.
- Additional humidification system.

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