

# CCK/e and CETM/ Vibration Test Chambers

- Horizontal and Vertical vibration mode
- Temperature range: -70°C to +180°C
- Volumes from 25 to up 4000 liters
- Humidity optional
- Adaptable for any kind of shakers
- Special designs
- CE mark



**DYCOMETAL EQUIPOS DE C.C., S.L.**

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[www.dycometal.com](http://www.dycometal.com)

## FEATURES:

### Construction

Las cámaras **CCK/e** y **CETM/e** vibration test chambers are manufactured in AISI-304 stainless steel, with high temperature fiberglass or ceramic wool insulation. No asbestos is used in chamber construction.

Built externally, based galvanized steel sheet with oven-dried acrylic paint to RAL-9010. Chamber doors with viewing window.

One special diaphragm interface is provided for use with shaker table.

Heated viewing window and interior light makes the visualization of the workspace free of problems.

All seams are continuously welded to form a hermetically sealed unit to prevent moisture migration.

### Cooling

Refrigerants are environmentally safe, non-flammable, non-explosive and have a Zero Ozone Depletion Potential.

The airflow system includes air circulator motors that provide better airflow within the chamber.

High temperature change rates like an optional (until  $15^{\circ}\text{C}/\text{min}$ ).

### Humidity

The chamber has an electronic humidity sensor. It is used on all humidity models (CCK) for accuracy and minimal maintenance.

### Temperature

The temperature is measured by a Pt-100 sensor.

### Communications Port

RS-232 serial communications.



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# CONTROL:

## Controlador/ Programmer

**CCK/e** and **CET/e** are furnished with a Eurotherm programmable controller, which includes a LED display with alphanumeric keyboard

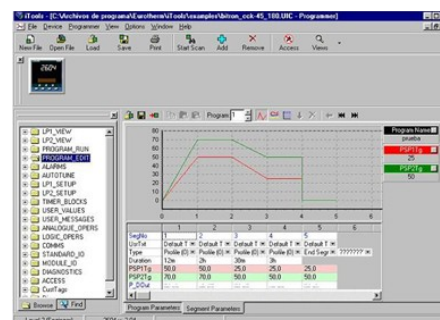
- Programs numbers stored in the memory: 50.
- 500 segments programs.
- Loops number: from 1 to 999 or infinite
- Optimization of work values by PID parameters in cold and heat.
- LED screen with alphanumeric keyboard that allows visualize the programmed values. The screen has an ergonomic position, switch and controls.
- Temperature and humidity monitoring which allows programming in sections based profiles using ramp and stabilization.
- The system allows you to save in nonvolatile memory all programmed data, not being affected by power failures.
- Setting alarms. Advise when exceeds a safety limit or for some reason there is any deviation from the programmed conditions.



## Software

Software for monitoring, data logger programming, graphics, alarms and configuration of the instruments.

- Record and storage to file.
- Display of existing file.
- Creation and modification of the programs.
- Obtaining of Temperature and Humidity records in digital files with programming of the record interval.
- Record and storage in a file of Essay historical for real values as well as configured alarms.
- Essay Graphical Representation, X-Y type, that shows in the screen the set-point and the real values, as well as the configured alarms.
- Essay records available to be converted to ASCII format



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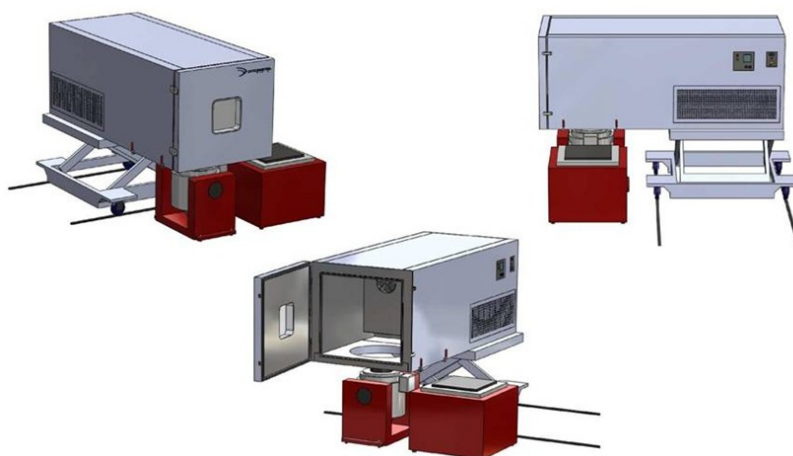
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# TECHNICAL SPECIFICATIONS:

Model		CET-.../180e CCK-.../180e	CET-.../300e CCK-.../300e	CET-.../480e CCK-.../480e	CET-.../648e CCK-.../648e	CET-.../1000e CCK-.../1000e	CET-.../4000e CCK-.../4000e
Volume	Liters	180	300	480	648	1000	4000
Workspace dimensions*	Height	mm	600	700	800	900	1000
	Width	mm	600	700	800	900	1000
	Depth	mm	500	625	750	800	1000
External dimensions	Height	mm	1750	1900	2020	2100	2300
	Width	mm	900	1000	1100	1330	1290
	Depth	mm	1825	2000	2075	2175	3000
<b>Temperature Test</b>							
Temperature range	CET-40.../CCK-40...	°C	-40 to 150	-40 to 150	-40 to 150	-40 to 150	-40 to 150
	CET-70.../CCK-70...	°C	-70 to 150	-70 to 150	-70 to 150	-70 to 150	-70 to 150
Temperature change rate cooling**	°C/min	3 to 5°C/min					
Temperature change rate heating**	°C/min	3 to 5°C/min					
Temperature homogeneity	°C	±1					
Temperature accuracy	°C	±0,1					
<b>Climatic Test</b>							
Temperature range	°C	+10 to +90					
Humidity range	% R.H.	15 to 98%					
Humidity homogeneity	% R.H.	±2					
Humidity accuracy	% R.H.	±0,1					
Nominal Voltage		400V (+6%-10%) 3N 50Hz					
Refrigeration Unit		Air cooled					
Level noise	dB	<60					

\*Other sizes on request

\*\* Temperature change rate according with IEC 60068-3-5. Higher gradients (>5°C/min) under request



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