

# CET

## Thermal Test Chamber

- Volumes between 48 to 9000 liters
- Different temperature ranges
- Construction: stainless steel AISI304
- Reliable construction
- Turnkey designs



The Thermal Tests Chambers are used to make processes of accelerated thermal stress with controlled cold and heat tests.

- Studies that suppose a deterioration of the structure of a sample or a change in its physical properties because of changes of temperature.
- Freezing/ defreezing accelerated Tests.
- Superficial adhesion Tests.

Its main advantage is that it has a Forced Air Heater (AFA) and a Forced Air Horizontal-Freezer (ACR) in the same Equipment.

Capacity of the Chambers from 81 liters to 9000 liters and range of temperature from  $-70^{\circ}\text{C}$  to  $150^{\circ}\text{C}$  (under request to  $180^{\circ}\text{C}$ ).

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

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## FEATURES:

### Construcción

The construction of the CET is highly robust and suitable for the function they have to do, in order to ensure long life of the Equipment.

- Built on a structure of steel tube. Externally, made of zinc plated steel with acrylic paint, dried in the oven, according to RAL-9010. Interior sheet of AISI 304 (18/8) stainless steel, completely sealed and without inner welds. Painted door according to RAL-9010.
- Doors with or without windows of observation.
- 4 castor wheels, multi-directional type and/or adjustable in height anti-vibration support, to make the mobility easier (depending on the models in option).
- Bushings made of Teflon with watertight plug (different diameters).
- Temperature regulation by electronic-digital controller with display of the current value and setpoint value.
- Measure of the temperature by means of PT-100 Ohm, DIN class A probes.

### Standards

- DIN 40046, page 14, test Nb
- IEC 68-2-14Nb
- MIL-STD 312A, part 112.1
- MIL-STD 810D, method 503
- MIL-STD 883B, method 1010.2

### Options

- Configurable logic output for events.
- Temperature record unit with one colour channel and continuous stroke, programmable speed of advance of roll, indicator of temperature in °C, analog display with high visibility in outline, relay and analog outputs.
- Blind door or with window of observation with interior light.
- Cradle sample in Rod, perforated or reinforced sheet.
- Cryogenic valve of nitrogen input or input of special gases (fast cooling).
- Special constructions, under demand, for chambers adapted to units of vibration, force, volumetric expansion, pulsating pressure, fatigue, hardness, elasticity limit, Torsion-deformation. To avoid the effect of condensation on the samples in a cycle of freezing and global warming, it is possible the installation of dry air injection units.



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# TECHNICAL SPECIFICATIONS:

Model	Liters*	Temp. °C	Internal dimension mm.			External dimension mm.		
			High	Width	Depth	High	Width	Depth
CET- 0/48	48	0 + 150	400	400	300	700	945	660
CET-25/ 48	48	125	400	400	300	700	945	660
CET- 0/ 81	81	0 + 150	450	450	400	1150	680	800
CET-25/ 81	81	125	450	450	400	1150	680	800
CET-40/ 81	81	110	450	450	400	1150	900	900
CET-65/ 81	81	85	450	450	400	1150	900	900
CET-0/125	125	0 + 150	500	500	500	1450	700	850
CET-25/ 125	125	125	500	500	500	1450	700	850
CET-40/ 125	125	110	500	500	500	1500	1000	970
CET-65/ 125	125	85	500	500	500	1500	1000	970
CET- 0/ 180	180	0 + 150	600	600	500	1700	820	900
CET-25/ 180	180	125	600	600	500	1700	820	900
CET-40/ 180	180	110	600	600	500	1800	900	1100
CET-65/ 180	180	85	600	600	500	1800	900	1100
CET- 0/ 300	300	0 + 150	700	700	625	1850	920	1025
CET-25/ 300	300	125	700	700	625	1850	920	1025
CET-40/ 300	300	110	700	700	625	1900	1000	1225
CET-65/ 300	300	85	700	700	625	1950	1000	1225
CET- 0/ 480	480	0 + 150	800	800	750	1970	1020	1150
CET-25/ 480	480	125	800	800	750	1970	1020	1150
CET-40/ 480	480	110	800	800	750	2020	1100	1350
CET-65/ 480	480	85	800	800	750	2050	1100	1350
CET- 0/ 1000	1000	0 + 150	1000	1000	1000	1895	1200	1500
CET-25/ 1000	1000	125	1000	1000	1000	1895	1200	1500
CET-40/ 1000	1000	110	1000	1000	1000	2200	1490	1650
CET-65/ 1000	1000	85	1000	1000	1000	2200	1490	1650
CET- 0/ 1200	1200	0 + 150	1200	1000	1000	2095	1200	1500
CET-25/ 1200	1200	125	1200	1000	1000	2095	1200	1500
CET-40/ 1200	1200	110	1200	1000	1000	2350	1490	1650
CET-65/ 1200	1200	85	1200	1000	1000	2350	1490	1650

\* *Optional: turnkey volumes and designs*



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