

Mini Environmental Test Chamber



TCM Series





Features :

- Very ergonomic & compact design for testing of small & precious components/products in small volumetric space.
- Compact & Portable Chamber , easy to carry at site testing , bring in faster test results.
- Rapid Testing Ability to cater high work loads of small test samples.
- Occupies Less Space.
- Corrosion Resistant Stainless steel Interior. / powder coated Exterior.
- Excellent Control Ability to stabilize Test Condition.
- Easily to move on site Testing Purposes.



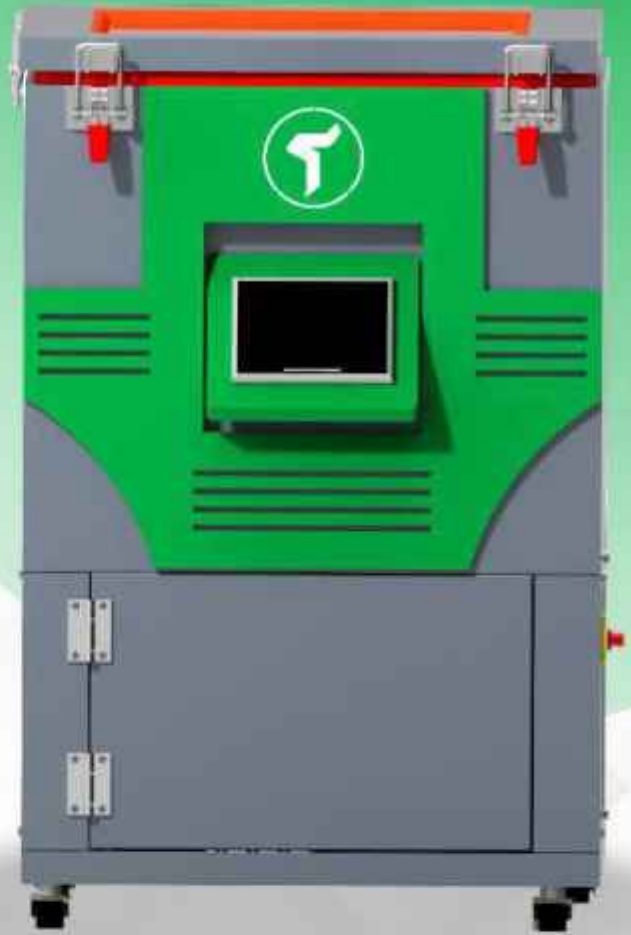
Specifications

Models			TCMTH-0H
Internal Volumes(L)			24
Dimensions	Inner Dimensions(mm)	W	400
		D	400
		H	150
	Outer Dimensions(mm)	W	500
		D	650
		H	850
Temperature	Temperature range	0°C to 50 °C	
	Temperture fluctuation	±0.5°C	
	Temperature uniformity	< 1000 Litres: ≤1.5°C. 1000 to 2000 Litres: ≤2.0°C. > 2000 Litres: ≤2.5°C.	
Humidity	Humidity range	20%RH to 95%RH	
	Humidity fluctuatuion	±1 %RH	
	Humidity uniformity	±3 %RH	



Specifications

Material	Internal Material	Internal test chamber is manufactured with Stainless steel material
	External Material	Exterior material shall be made of min 2mm thick CRCS with powder coated panels/door with impressive precision & aesthetics
	Thermal Insulation	Internal test chamber and outer body is isolated using mineral wool ensuring no air pockets and zero conduction and heat losses
	Fan	Single-moulded light weight high cfm cooling fan for uniform air-circulation.
	Refrigeration Compressor	Huayi, Tecumseh and Danfoss.
	Refrigerant	R134a or R-404a
	Cooling mode	Air-Cooled
	Evaporator	Evaporator heat exchanger coils are made with oxidize free materials with full collared bullet expanded for highly efficient heat transfer and higher efficiency.
	Heater	Inconel material sheathed/ bare nichrome air heaters to achieve the set temperature.
	Humidifier	Humidity generator shall be equipped with water level float, Inconel immersion heater for vapor generation. Water level automatically controlled through a water-in solenoid valve.
Working Temperature		25-30 °C AND 10-90% RH
Power Supply		Power requirement: 230VAC +/- 5%, 1 Phase 50 Hz, 2 wire + E.
Controller		3" Omron HMI
Weight		80 kg Approx.



Installation Site Requirements

Models	TCMTH-0H
Power Supply Requirement	230VAC +/- 5%, 1 Phase 50 Hz, 2 wire + E.
Connected Load (Max)	4 kw
Chamber Drain	1/4" BSP Female Threaded provision (Gravity Drain)
Water Supply	Continues Demineralized/Deionised water supply connection
Max Water Consumption	1 Litres Day
Condenser	Standard: Air-cooled condenser
Max Noise Level (dba) Measured @ 1 meter distance	68
Ambient Condition	15 °C to 25 °C and 10%RH to 90%RH for air cooled systems