



Thermal Shock Test Chamber

TCTS Series





Features :

- ▶ Two-zone Thermal Shock Chamber Temperature and Cooling setting protection.
- ▶ HFC environmentally friendly refrigerant, Brazed plate heat exchanger, two type refrigeration system.





Specifications

Models		TCTS50-70T	TCTS100-70T	TCTS150-70T	TCTS300-70T	TCTS600-70T	
Internal Volumes(L)		50	100	150	300	600	
Dimensions	Basket Dimensions (mm)	W	500	500	600	800	900
		D	350	500	500	750	900
		H	300	400	500	500	750
	Outer Dimensions (mm)	W	950	950	1050	1250	1350
		D	2000	2250	2300	2500	2750
		H	1600+500	2000+600	2250+750	2100+750	2750+1050
Temperature	Pre Heating and Cooling Temperature	Pre heating upper limit 170°C and Pre cooling lower limit -70°C within 45mins					
	Temperture fluctuation	±1°C					
	Temperature uniformity	< 1000 Litres: ≤1.5°C. 1000 to 2000 Litres: ≤2.0°C. > 2000 Litres: ≤2.5°C.					
	Basket Recovery Time	10 – 15 Sec					
	Basket Transition Time	Basket Recovery Time will be <5min 160°C and -65°C					

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 coaxial fan for uniform air-circulation.
	Refrigeration Compressor	Danfoss, Frascold and Bitzer
	Refrigerant	R-404a and R-23
	Cooling mode	Air-Cooled / Water 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	Na
Working Temperature		25-30 °C and 10-90% RH
Power Supply		Power requirement: 415VAC +/- 5%, 3 Phase 50/60 Hz, 4 wire + E.
Controller		7" Red Lion (HMI) & Siemens (PLC)

