

Water Bath/ Oil Bath TCLB Series



Specifications

Models		TCLB4-30-100T / TCLB4-30-200T	
Internal Volumes(L)		4	
Dimension	Work space dimension (mm)	W	140
		D	100
		H	100
	Outer Dimension (mm)	W	350
		D	600
		H	750
Temperature	Temperature range	-30°C to 100 °C / -30 to 200 °C @25°C	
	Temperature fluctuation	±0.08°C	
	Temperature uniformity	±0.1°C	
	Cooling Medium for -30°C	4 liter Isopropyl Alcohol / Ethanol	
	Heating Medium for +100°C	4 liter Water/ Silicon Oil (5 to 10Cst)	
	Heating Medium for +200°C	4 liter Silicon Oil (5 to 10Cst)	
	Cooling time	25°C to -30°C: 60 minutes (Isopropyl Alcohol)	
Material	Internal Material	Internal test chamber is manufactured with Stainless steel	
	External Material	Exterior material shall be made of MS 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	
	Circulation Pump	light weight high flow Circulation pump for uniform circulation.	
	Refrigeration Compressor	Huayi, Emerson Tecumseh and Danfoss.	
	Refrigerant	R134a or R-404a	
	Cooling mode	Air-Cooled	
	Evaporator	Evaporator heat exchanger coils	
	Heater	Inconel material sheathed/ bare nichrome air heaters to achieve the set temperature.	
Controller		3" Omron(HMI)	

Models	TCLB4-30-100T / TCLB4-30-200T
Power Supply Requirement	230VAC +/- 5%, 1 Phase 50 Hz, 2 wire + E.
Connected Load (Max)	2KW
Chamber Drain	1/4" BSP Female Threaded provision (Gravity Drain)
Condenser	Standard: Air-cooled condenser
Max Noise Level (dbA) Measured @ 1 metre distance	10
Ambient Condition	15°C to 25°C and 10% RH to 90% RH for air cooled system
Note-Circulation Tube Available for Cooling of External Pump like Experimental Test (Viscometer etc.)	

