



Liquid tank thermal shock chamber

Chamber for shortening development period, used in shipment inspection of cpu board,
Screening of semiconductor, durability test of print based or automobile parts (Japanese patent 3898210)



Main function

- It significantly reduces the amount of consumed liquid by completely isolating the test area during the test
- It saves energy by reducing power consumption according to test conditions with dual system cooling method
- It reduces liquid consumption by introducing quenching circuit of high temperature liquid after terminating the test
- Easy to maintain because there is no need to replenish liquid by installing automatic feeding device
- It reduces liquid consumption by releasing air to the outside and recovering high temperature liquid by using vapor recovery device
- The long-term continuous operation of 1000 cycles or more is available by installing a frozen protection circuit in the low temperature tank
- New design of conveying system enables testing of heavy parts such as automobile parts (Up to 20kg depending on model)
- It is suitable for tests requiring rapid temperature change such as low temperature ⇔ high temperature / high temperature ⇔ low temperature
- Able to monitor the sample and liquid state under test by installing observation window
- Available for standard test such as MIL-STD, JEDEC, IEC
- JEDEC standard tray available

Specifications

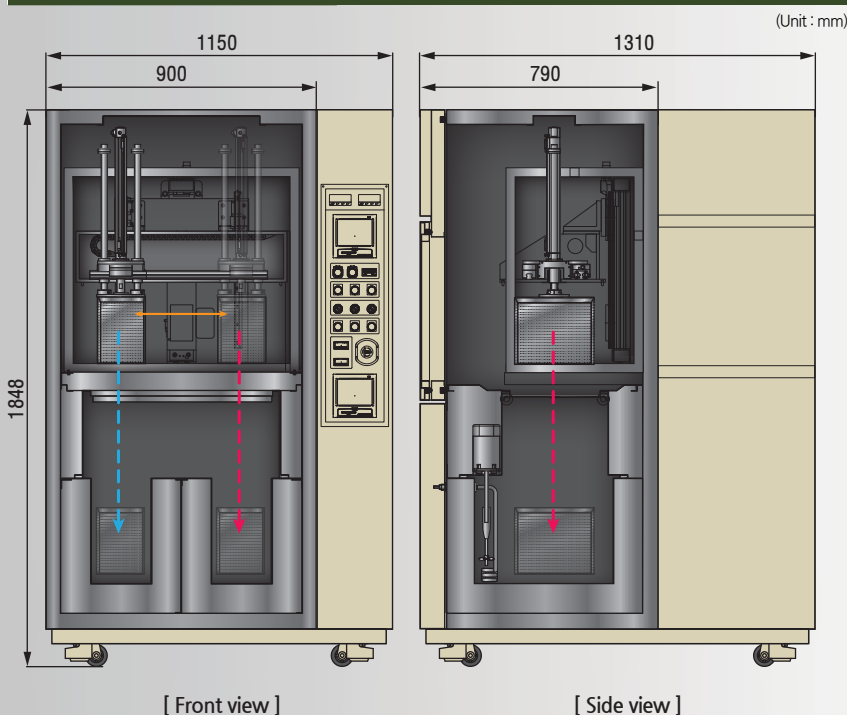
Form		LTS-100-HO	LTS-100-A	LTS-150-A/W	LTS-300S-W	LTS-1000-W
High temp.	Range	65.0 ~ 280.0℃	50.0 ~ 150.0℃			
	Fluctuation range	±0.3℃				
	High temperature stable time	Within 120 minutes from 20.0 ~ 280.0℃				
Low temp.	Range	10.0 ~ 25.0℃	-65.0 ~ 25.0℃			
	Fluctuation range	±0.3℃				
	Low temperature stable time	Within 30 minutes from 20.0 ~ 10.0℃	Within 90 minutes from 20.0 ~ -65.0℃			
Material / Component part	Internal material	Stainless steel plate (SUS316)				
	External material	Cold rolled steel sheet / Power coating				
	Insulator	Urethane foam, white wool				
	Compressor	Low temperature (Sealed)	Low temperature (Semi-sealed, Binary freezing)			
	Condensate	Air cooling(water cooled)				
	Refrigerant	R404A	R404A, R23			
	Liquid measure	57L	58L	95L	180L	200L
Basket	Size (W*H*D)	150 X 200 X 250 mm	150 X 150 X 250 mm	220 X 220 X 250 mm	200 X 300 X 400 mm	350 X 260 X 350 mm
	Load carrying	IC 2.0Kg	IC 1.0Kg	IC 1.5Kg	IC 10.0Kg	IC 6.0Kg
Body size(W*H*D)		1,150 X 1,750 X 1,200 mm	1,000 X 1,650 X 1,000 mm	1,420 X 1,870 X 1,400 mm	1,420 X 1,950 X 1,750 mm	1,750 X 1,900 X 1,800 mm
Safety specification		Control circuit breaker, Overheat protection, Overload relay (Agitator, Exhaust Fan, Compressor), Leakage breaker, Emergency stop switch (EMO)				
Power specification		220V AC 3φ 50/60Hz, 12KW<Operate within ±10% of rating>				

※ Temperature and humidity specifications are based on non-sample, no heat, atmospheric pressure and stable performance

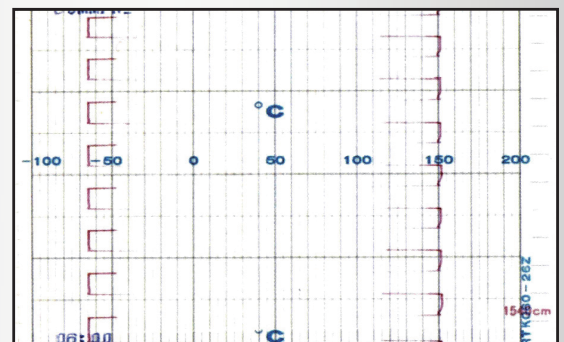
※ Please contact us for other details

※ Refer to separate conditions of use for temperature and humidity range

Structure system



IC 2.0kg test data



Sample basket tailored to customer needs



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