

Basket Moving Type Horizontal Thermal Shock Chamber

ETSP-TS Series



ETSP-TS series (basket moving type) are designed for thermal shock test of components or equipment, submitting them to rapid temperature changes.

Therefore they are suitable for quality control laboratories or in production plants for the screening of components or equipments. ETSP-TS series allows users to carry out a wide range of tests necessary to determine thermal characteristics. It is possible to offer Standard or custom-designed models.

Included accessories

- 2 baskets
- Automatic defrost
- End of cycle, Hi&low limit audible alarm
- RS232/485 interface
- Caster for moving
- Hard copy/soft copy instruction and maintenance manual

Options

- Recorder
- Door lock system
- Viewing window
- Customization available



General Features

- Rapid cooling with low noise level.
- Low level of the vibration.
- Friendly, flexible, up-to date control and management systems.
- High reliability and operator safety
- Reduced the air mixing between the cold and hot chambers.
- Faster temperature recovery time.
- Fast thermal response with continuous and linear control over the whole range.
- RS232/485 data interface

Specifications

Model	Internal dimensions (mm)			Eternational dimensions (mm)			Basket capacity
	Width	Depth	Hight	Width	Depth	Hight	
ETSP-TS 50	300	300	300	1200	2100	1900	27 liters
ETSP-TS 100	400	400	400	1300	2200	2100	64 liters
ETSP-TS 150	500	500	500	1400	2500	2300	125 liters

Note: Different size of chambers are available on user's demand.

Technical Features

Temperature range	Cold zone -65°C --10 °C, hot zone +60 °C --+ 200 °C
Hot zone pre-heating upper limit	Less than + 230 °C
Hot zone heat up rate	RT to +200 °C within 15 minutes
Cold zone pre-cool limit	-75 °C
Cold zone coo-down rate	RT to -75 °C within 75 minutes
Temperature recovery time	Within 5 minutes
Input power requirements	230V ± 10%, 380V ± 10%, 50Hz/60Hz, 1PH/3PH

Controller

LCD touch screen programmable type (Max. 120 patterns, Max. 1,200 segments)

Automatic defrost system.

Pneumatic or hydraulic cylinder.

Cascade type refrigeration system (double cooling system).

Safety devices

Leakage breaker, circuit breaker, overheat protector, compressor high and low pressure switch, electrical over current relay, motor reverse-prevention relay, emergency shut off switch.