

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.



ETSP-TS series

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

Technical Features

- **Temperature range** | Cold zone $-65^{\circ}\text{C} \sim -10^{\circ}\text{C}$, hot zone $+60^{\circ}\text{C} \sim +200^{\circ}\text{C}$
- **Hot zone pre-heating upper limit** | less than $+230^{\circ}\text{C}$
- **Hot zone heat up rate** | RT to $+200^{\circ}\text{C}$ within 15 minutes
- **Cold zone pre-cool limit** | -75°C
- **Cold zone cool-down rate** | RT to -75°C within 75minutes
- **Temperature recovery time** | within 5 minutes
- **Input Power Requirements** | $230\text{V} \pm 10\%$, $380\text{V} \pm 10\%$, 50Hz/60Hz, 1PH/3PH

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Technical Specification

Model	Basket dimensions	External dimensions	Basket capacity
ETSP-TS50	300×300×300 (W×D×H) mm	1200×2100×1900 (W×D×H) mm	27 liters
ETSP-TS100	400×400×400 (W×D×H) mm	1300×2200×2100 (W×D×H) mm	64 liters
ETSP-TS150	500×500×500 (W×D×H) mm	1400×2500×2300 (W×D×H) mm	125 liters

❖ **Note** Different size of chambers are available on user's demand

- 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.

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