

Environmental Stress Screening (ESS) chambers ETSP-ESS series

ETSP-ESS series are to conduct an Environmental Stress Screening (ESS) test that is a process to precipitate process related defects from latent to patent for detection by a products verification test also to determine the limits of environmental stimulation which the product can endure before its performance is permanently degraded.

ETSP-ESS series are manufactured according to the total quality procedures, in compliance with the ISO 9001 standard.

General Features

- Silent compressors using ecologically friendly refrigerants.
- Unique air flow design to provide uniform temperature and humidity.
- Rapid temperature change rates.
- Friendly, flexible, up-to date control and management systems.
- Automatic water replenishment with low water alarm.
- Electronic humidity sensor.
- Allows easy servicing and upgrades.
- Oven networking connecting system (RS232/485)



ETSP-ESS series

Technical Features

- Temperature range: -70°C ~ $+180^{\circ}\text{C}$ (changeable according to user's demand)
- Temperature stability: less than $\pm 0.5^{\circ}\text{C}$
- Temperature uniformity: less than $\pm 1.5^{\circ}\text{C}$
- Humidity range: 20% ~ 98%RH (10% ~ 98%RH is an optional spec.)
- Humidity stability: less than $\pm 2\%$ RH
- Humidity uniformity: less than $\pm 3\%$ RH
- Heat-up rate: 10~15 $^{\circ}\text{C}/\text{min}$
- Pull-down rate: 10~15 $^{\circ}\text{C}/\text{min}$
- Condensing: Air cooled or water cooled type
- Input Power Requirements: 220V/ 380V/ 415V 50Hz/60Hz, 3PH with N
(Changeable according to customer specification.)



ETSP Co., Ltd.

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Environmental Stress Screening (ESS) chambers ETSP-ESS series

Technical Specification

Model	Internal dimensions	External dimensions	Useful capacity
ETSP-ESS 225	600 X 500 X 750 (W X D X H) mm	1,400 X 1,600 X 1,800 (W X D X H) mm	225 liters
ETSP-ESS 318	700 x 650 x 750 (W X D X H) mm	1,500 x 1,700 x 1,800 (W X D X H) mm	318 liters
ETSP-ESS 512	800 x 800 x 800 (W X D X H) mm	1,650 x 1,850 x 1,850 (W X D X H) mm	512 liters
ETSP-ESS 1000	1,000X1,000X1,000 (W X D X H) mm	1,800 X 1,950 X 2,050 (W X D X H) mm	1,000 liters
ETSP-ESS 1200	1,200x1,000x1,000 (W X D X H) mm	2,000 x 1,950 x 2,050 (W X D X H) mm	1,200 liters

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

- Controller: Programmable type TFT color LCD 5.7" controller (Max. 120 patterns, Max. 1,200 profile)
- Refrigerant: R404A, R23 (CFC free)
- Safety devices: Leakage breaker, circuit breaker, over heat protector, refrigerator high and low pressure switch, Water low level switch, compressor built-in protector, pressure relief port, Electrical over current relay.

Included accessories

- Viewing window (heater wire including, reinforced window) and interior light
- Cable port and rubber plug
- Sloped stepping plate
- RS232/485 oven networking With control software
- Spare parts kit
- Constant level reservoir

Options

- Low humidity kit
- Chart recorder
- Demineralization unit (RO system)
- Additional port hole and rubber plug
- Customization available



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