

Altitude Temperature and humidity Chamber ETSP-THV series

ETSP-THV series are altitude temperature and humidity chambers (Climatic vacuum chambers) for performing temperature and altitude condition testing in one combined test chamber more than one condition can be created simultaneously to satisfy many types of test requirements. Our THV series chambers are designed to simulate altitude conditions up to 100,000ft. also offer simultaneous temperature/altitude and humidity testing from site altitude to 35,000ft. ETSP-WTH series are manufactured according to the Total Quality procedures, in compliance with the ISO 9001 standard.

General Features

- Silent compressors using ecologically friendly refrigerants.
- Air temperature variation and quick adaptation of specimens to it.
- Friendly, flexible, up-to date control and management systems.
- Allows easy servicing and upgrades.

Technical Features

- Temperature range: -70 °C ~+150 °C (changeable according to user's demand)
- Temperature accuracy: less than ± 0.3 °C
- Temperature fluctuation: less than ± 0.5 °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: More than 3 °C/min
- Pull-down rate: More than 2 °C/min
- Max. final vacuum: 1mbar (100pa)
- Vacuum pump: Two stage oil rotary pump or dry pump
- Condensing: Air cooled or water cooled type
- Input Power Requirements: 220V/ 380V, 50Hz/60Hz, 1PH/3PH
(Changeable according to customer specification.)



ETSP-THV series



ETSP Co., Ltd.

[Http://www.etsp.co.kr](http://www.etsp.co.kr)

Address: 12dong 9ho, Steel land, 2210,
Siheung-si jeongwang-Dong, Gyeonggi-Do,
429-450, Korea

Tel : +82-31-8041-8519

Fax : +82-31-8041-8524

E-mail: info@etsp.co.kr

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Technical Specification

Model	Internal dimensions	External dimensions	Useful capacity
ETSP-THV 345C	700 X 600 X 750 (W X D X H) mm	1450 X 1900 X 2000 (W X D X H) mm	345 liters
ETSP-THV 405C	740 X 740 X 740 (W X D X H) mm	1490 X 2040 X 2000 (W X D X H) mm	405 liters
ETSP-THV 512C	800 X 800 X 800 (W X D X H) mm	1550 X 2100 X 2060 (W X D X H) mm	512 liters
ETSP-THV 720C	800 X 900 X 1000 (W X D X H) mm	1550 X 2200 X 2300 (W X D X H) mm	720 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
- RS232/485 oven networking With control software
- Caster for moving
- Oil mist trip
- Spare parts kit
- Instruction and maintenance manual

Options

- Low humidity kit
- Chart recorder
- Port hole
- GN2 purge
- Demineralization unit (RO system)
- Customization available



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