

Complex vibration temperature and humidity chambers

ETSP-VTH series

ETSP-VTH series are temperature and humidity test chambers in combination with vibration. Enable to simulate dynamic process as well as optimum integration of various vibration systems. Applied tests: high temperature test, low temperature test, high-low temperature test, temperature and humidity test, high-low temperature and humidity test, environment stress screening test, reliability evaluation and acceptance test.

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



General Features

- Powerful chamber up/down unit.

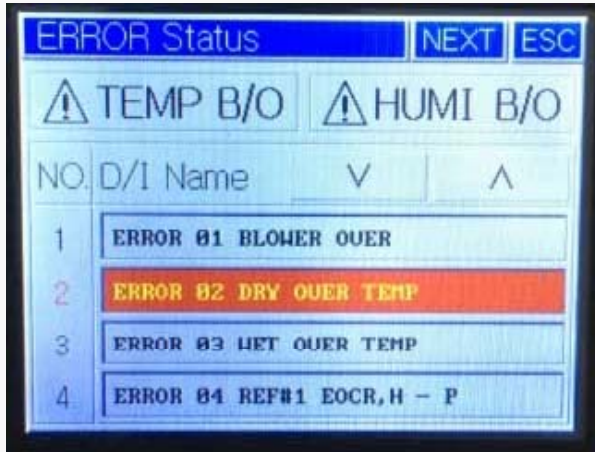


- High reliability and operator safety electrical unit.

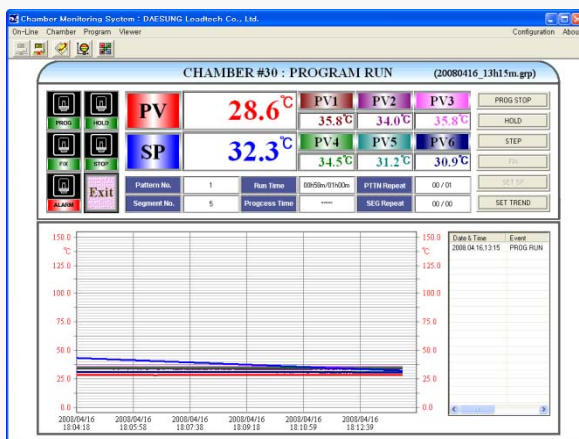


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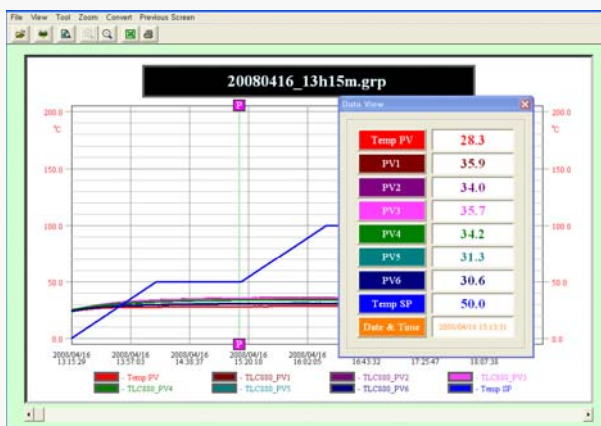
- Allows easy servicing and upgrades by error diagnosis system and inspection system.



- Network connection of several chambers to a single "master" control unit allowing centralized supervision both in local and remote mode.



- RS232/485 oven networking with free control software



- Friendly, flexible, up-to date control and management systems.



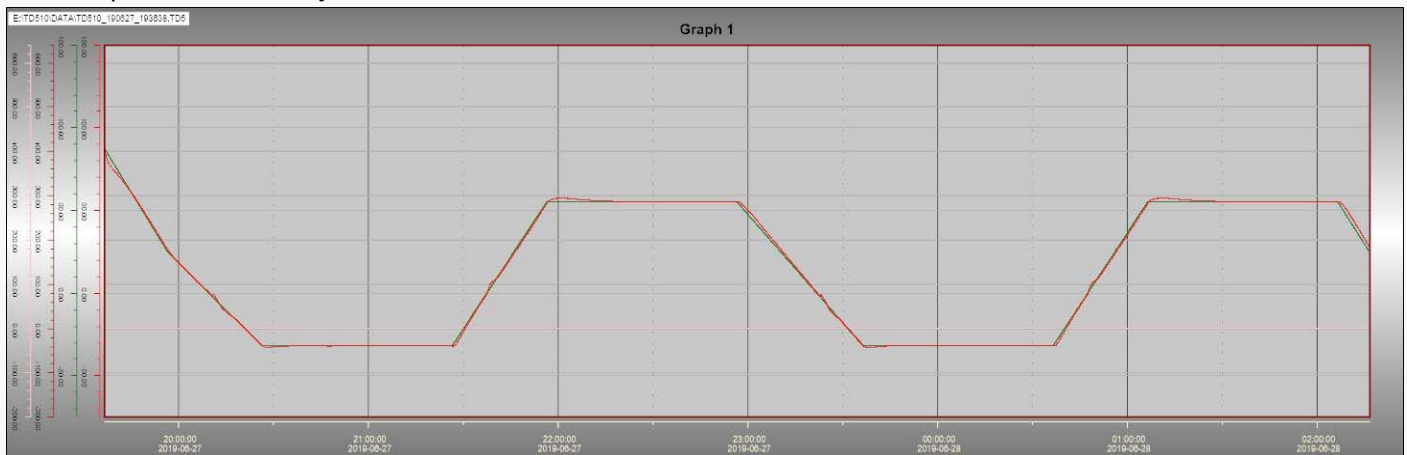
- Rapid cooling with low noise level ecologically friendly refrigerants.



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Technical Features

- Temperature range: -40 °C ~+150 °C (Single stage refrigeration system)
-70 °C ~+150 °C (Cascade refrigeration system)
(changeable on customer request)
- Temperature accuracy: less than ± 0.3 °C
- Temperature stability(fluctuation): less than ± 0.5 °C
- Temperature uniformity: less than ± 2.0 °C



- Heating-up rate: 5~15 °C/min on average with no load measured in air inlet
- Cooling-down rate: 5~15 °C/min on average with no load measured in air inlet
- Input Power Requirements: 3PH 380V, 50Hz/60Hz
(Changeable according to customer specification.)

Included accessories

- 2 Shelves
- Viewing window (heater wire including, reinforced window) and interior light
- RS232/485 oven networking with control software
- Cable port and rubber plug
(selectable among 50,80,100mm)



- Moving rail



- Hard copy/soft copy instruction and maintenance manual
- 3 Color tower light

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Technical Specification

Model	Internal dimensions	External dimensions	Useful capacity
ETSP-VTH 392	700 x700 x800 (WxD xH) mm	1,660 x 2,770 x 2,110 (W xD xH)mm	392 liters
ETSP-VTH 512	800 x800 x800 (WxD xH) mm	1,760 x 2,870 x 2,210 (W xD xH)mm	512 liters
ETSP-VTH 729	900 x900 x900 (WxD xH) mm	1,860 x 2,970 x 2,310 (W xD xH)mm	729 liters
ETSP-VTH 800	930 x930 x930 (WxD xH) mm	1,890 x 2,900 x 2,340 (W xD xH)mm	800 liters
ETSP-VTH 1000	1,000 X1,000 X1,000 (WxD xH) mm	1,960 x2,990 x 2,410 (W xD xH) mm	1,000 liters
ETSP-VTH 1200	1,000 X1,200 X1,000 (WxD xH) mm	1,960 x3,190 x 2,410 (W xD xH) mm	1,200 liters
ETSP-VTH 1800	1,200 X1,200 X1,250 (WxD xH) mm	2,160 x 3,190 x 2,660 (W xD xH)mm	1,800 liters

Note :Custom designed chambers are available on user's demand.

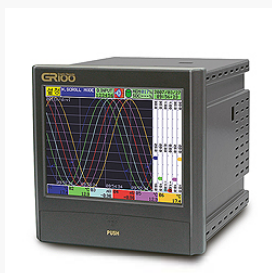
■ **Controller:** Programmable type TFT Color 5.7" touch screen LCD controller (Max. 120 patterns, Max. 1,200 profile), Set resolution: temperature 0.01°C , automatic recording and show graphs for temperature.

■ **CFC free refrigerant** (R404A, R23)

■ **Safety devices** Electrical Leakage breaker, circuit breaker, over heat protector,
Refrigerator high and low pressure switch, compressor built-in protector,
Electrical over current relay, Emergency shut off switch,
Motor reverse-prevention relay

Options

- Paperless digital chart recorder
(selectable among 6CH, 8CH, 12CH, 18CH)



- Additional port hole and rubber plug
(selectable among 50,80,100mm)
- Additional stainless steel shelves

- Selectable horizontal moving type or vertical moving type or horizontal & vertical moving type

