

ESS Series › ET27-1-10-WC-HAF Environmental Stress Screening Chamber

ESS Series ET27-1-10-WC-HAF •

The ET27-1-10-WC-HAF test chamber was designed to maximize the testing capabilities for 19" rack mountable networking equipment. It was designed with right-to-left cross-chamber airflow to work with customer product by moving the air in the same direction as current customer-completed chassis designs. This helps to eliminate temperature gradients between upper and lower test tiers found in typical environmental chamber configurations. All chassis are exposed to identical temperature swings, changes and ramp rates. Additionally, this system was designed with a single-stage compressor system for ESS compatible product testing requirements between 0 and 50°C.

The ET27-1-10-WC-HAF Test Chamber's small size provides a much more flexible system by allowing more rapid load turn times and less impact during chamber down time for preventive maintenance. Fork lift slots have been added to simplify relocation, when necessary.

All external connections typically found on other chamber designs such as water inlet/outlet and dry air purge systems have been moved inboard to protect them from accidental damage. Easy access for interconnect is provided through a 14" x 12" port which is conveniently located in the rear wall.





The hole pattern in the side walls is characteristic of Envirotronics' patented* high-velocity horizontal air flow system.

Air Flow Systems Features

- Externally mounted fan motor
- Jackshaft assembly provide maximum reliability and flexibility
- Aluminum backwards-inclined blower wheel
- Patented Horizontal air flow system
- High velocity air (3300 CFM) provides optimum air flow across your product

Instrumentation Systems

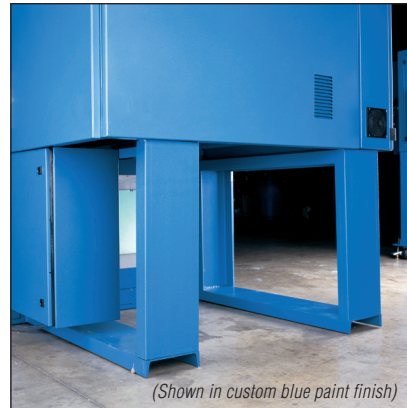
- Solutions Plus Touchscreen Controller/Programmer
- Quick Draw to reduce cycle times
- Redundant Temp Sentry available as product fail safe protection
- RS232 Ethernet and USB Communication Ports

Refrigeration Package Features

- 10 HP Water cooled system
- Copper tubing cooling coils with aluminum fins
- Solder-in-place components minimize leakage
- High temperature silphosed or silver soldered joints
- Stainless steel drip pan in compressor compartment contains condensate
- HFC refrigerants
- 10 CFM dry air purge system
- Refrigeration sound reduction package for quiet performance

Electrical Features

- Nichrome wire heating elements
- Fail safe fusible link high heat limit protection
- ETL approved (UL508A) electrical system



A 14" x 12" port is provided for ease of outboard instrument interconnect. External access to the port is provided at the rear of the chamber.

*Envirotronics high-velocity airflow system is protected by U.S. Patent No. 6,272,676.

Specifications

ET27-1-10-WC-HAF

Exterior Dimensions	W 57.5 X D 82 X H 101 inches W 1460.5 X D 2082.8 X H 2565 mm
Interior Workspace	W 26 X D 26 X H 70 inches W 660.4 X D 660.4 X H 1778 mm
Temperature Range	-6.7°/+85° C 20°/+185° F
Change Rate*	+50° C to 0° C in 5-6 minutes
Refrigeration System	10 HP water cooled
Airflow	3300 CFM Horizontal
Recommended Power Requirements	80 A
Voltage	480V, 3 Phase, 60 Hz. 69 FLA
Water requirements	12 GPM (+75°F), 24 GPM (+85°F)

*with 152lbs. steel and 132 lbs. PCB load

ESS ET27 7/13

