

SMALL CONTROLLED ENVIRONMENTAL CHAMBER

Series 5503

With 3.75 cu. ft. of usable space the 5503 Series is the smallest standard chamber offered by ETS. Due to its small size and array of options the 5503 can be used in a variety of applications as a stand-alone system or stacked for desiccator or other applications. Users can select from a wide range of ETS controllers and operating systems to meet their exact performance criteria. The 5503 can be used for conditioning, testing, storage and fabrication in electronic, electrostatic, biomedical, pharmaceutical, university research, R&D and many other applications where a small environment is required. Uses can vary from a basic uncontrolled box to full range precision humidity and temperature control. Clear acrylic construction provides excellent internal visibility. Accessories may include PID and On/Off Controllers along with humidification, dehumidification, heating and cooling systems.

Features:

- 3.75 cu. ft. (106 l) work space**
- 115 or 230 VAC operation**
- Door with 12" x 12" access opening**
- PS30 welded seams**
- Available with or without 6" (150mm) glove ports**
- Humidity & temperature control packages**
- Portable and stackable**
- Custom configurations available**



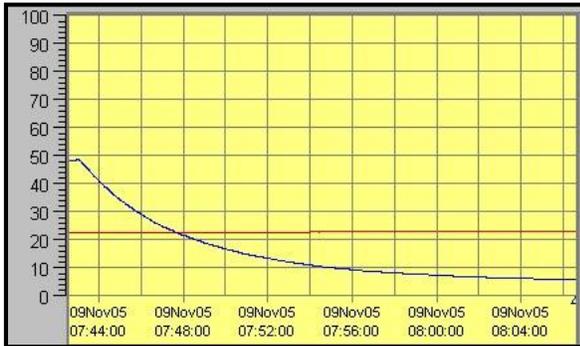
5503 Option Packages:

ETS chambers may be ordered as freestanding enclosures, with customer selected controllers and operating systems or as one of the following configurations. Please contact ETS for a detailed description of each option package.

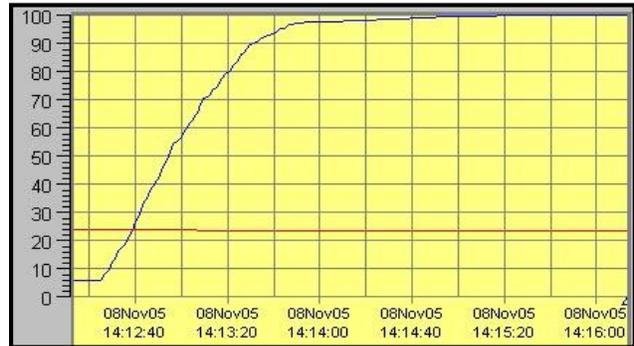
- 5503 Package A:** Low humidity control system (single point 5% RH non-adjustable)
- 5503 Package B:** Adjustable dehumidification control system (ambient and below)
- 5503 Package C:** Adjustable humidification only control system (ambient and above)
- 5503 Package D:** Full range humidity control system
- 5503 Package E:** Full range humidity control system plus elevated temperature
- 5503 Package F:** Full range humidity and temperature control system
- Model 5503-11:** Enclosure only with glove ports
- Model 5503-00:** Enclosure only without glove ports

Performance Characteristics:

Equipment and samples placed inside the environment will have an impact on the conditions that can be maintained and the time required to increase or decrease to the set point. Any item that adds heat or humidity to the environment will have an impact on system performance. Chamber performance pertains to the ability of the chamber to reach and then hold a given level along with gradients. It is not only a function of the chamber, but the ambient humidity and temperature, operating systems and controllers used. The following charts show the time typically required to decrease and increase humidity (Blue = RH, Red = T °C) plus humidity gradients in a no-load situation using an ETS Model 5200-231-241 Controller with Calgraphix software in conjunction with a Model 5461 Desiccant/Pump Dehumidification System and a Model 5462 Humidification System.



Rate of humidity decrease



Rate of humidity increase



Low humidity gradient



High humidity gradient

Specifications:

Material:

¼" (6mm) clear acrylic
 3/8" (9mm) left end cap

Construction:

Wrapped, PS30 welded seams

Door: (left side)

½" (12mm) clear acrylic with ¾ -turn latch

Seal: ¼" (6mm) Poron, non-setting gasket

Gloves: (when configured)

.018" (0.5mm) latex, 6" (15.2cm) ports

Operating Range:

Humidity: <1-100% RH

Temperature: <32-122°F (0-50°C)

Access Ports: (left side)

2x¼" (6mm) hose barbs

1x1" (25.4mm) Hose barb

1x¾" (12mm) compression fitting

1x1½" (31.4mm) cable pass through

Dimensions: 24"W x18"D x15"H (61x46x38 cm)

Weight: 27 lbs. (12.3 kg)

Warranty: One (1) year

Specifications are subject to change without notice