

# ENVIRONMENTAL CHAMBER

## Series 5506

The 5506 Series is a general-purpose 9 cu. ft. (255 l) acrylic bench top chamber designed for both laboratory and production applications. Users can select from a wide range of ETS controllers and operating systems to meet their exact performance criteria. The 5506 can be used for conditioning, testing, storage and fabrication in electronic, electrostatic, biomedical, pharmaceutical, university research, R&D and many other applications. The chamber is large enough to accommodate equipment, fixtures, samples, assemblies and other items while fitting onto a standard workbench. Uses can vary from a basic uncontrolled box to full range precision humidity and temperature control. Clear and white acrylic construction provides excellent internal visibility. Accessories may include PID and On/Off Controllers along with humidification, dehumidification, heating and cooling systems.

### Features:

- 9 cu. ft. (255 l) work space
- 115 or 230 VAC operation
- Standard 8" Ports with gloves
- Door with 12" x 12" access opening
- 32 cfm internal circulation fan
- Clear & white acrylic construction
- Humidity & temp option packages
- PS30 welded seams
- Antechamber option
- Custom configurations available



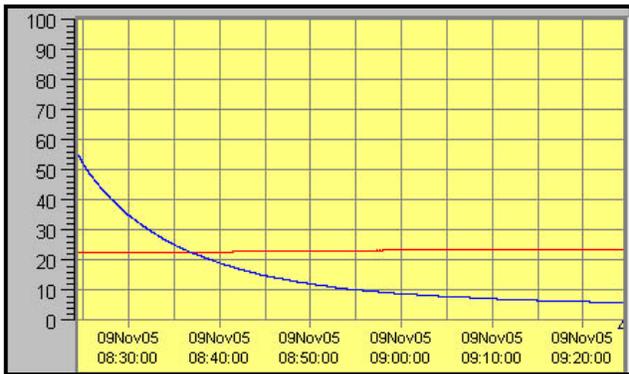
### 5506 Option Packages:

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.

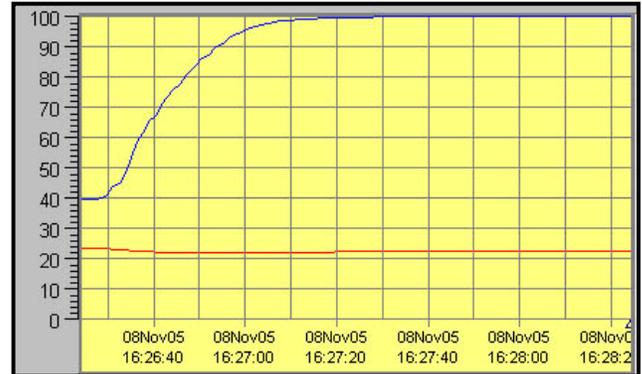
- 5506 Package A:** Full range humidity control system with temperature display
- 5506 Package B:** Full range humidity control system plus elevated temperature
- 5506 Package C:** Full range humidity & temperature control system
- 5506 Package D:** Low humidity control system (single point 5% RH non-adjustable)
- 5506 Package E:** Adjustable dehumidification control system (ambient and below)
- Model 5506-22:** Enclosure only with gloves and glove ports
- Model 5506-00:** 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.



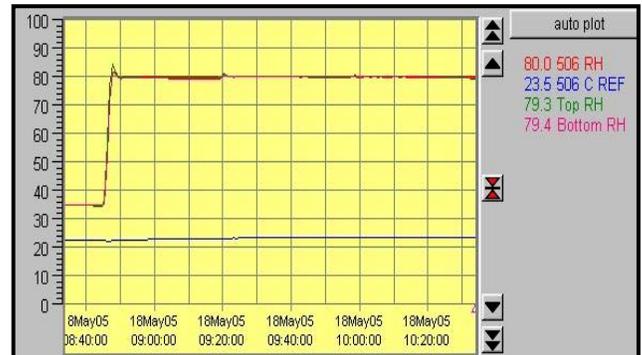
Rate of humidity decrease



Rate of humidity increase



Low humidity gradient, constant temp.



High humidity gradient, constant temp.

## Specifications:

### Material:

1/4" (6mm) clear & white acrylic  
 3/8" (9mm) white left end cap

### Construction:

PS30 polished welded seams

### Door: (left side)

1/2" (12mm) clear acrylic with 3/4 -turn latch

### Seal:

1/4" (6mm) Poron, non-setting gasket

### Gloves: (when configured)

.018" (0.5mm) replaceable hands, nat. rubber,  
 accordion sleeves, 8" (20.3cm) ports

### Operating Range: (With appropriate systems)

Humidity: 1-100%

Temperature: 32-122°F (0-50°C)

Fan: 32 cfm (900 l/min) (Please specify 115 or 230 VAC)

### Access Ports: (left side)

2x1/4" (6mm) hose barbs

1x1" (25.4mm) hose barb

1x3/4" (12mm) compression fitting

1x1 1/2" (31.4mm) cable pass through

### External Dimensions:

36"W x 24"D x 18"H (92 x 61 x 46 cm)

Weight: 42 lbs. (19 kg)

Warranty: One (1) Year

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Specifications are subject to change without notice.