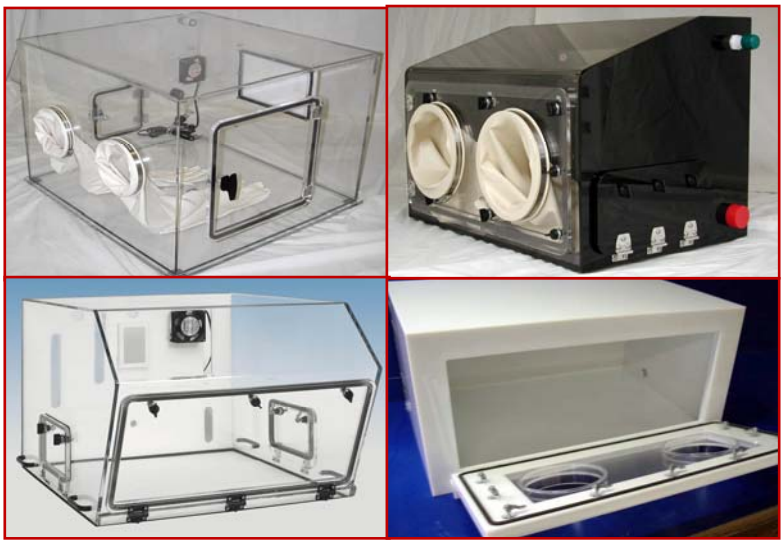
CUSTOM DESIGNED ENCLOSURES

Series 5500-8000

ETS designs high quality custom enclosures up to 125 cu. ft. (3540 l) for storage, testing, weighing and fabrication. Our custom chambers are used in electronic, electrostatic, biomedical, pharmaceutical, military, university research, consumer product evaluation, R&D and many other applications. Chambers can be built to house a specific piece of equipment or to facilitate a wide range of tasks. Virtually any customer requirement can be incorporated into the design including glove ports, iris ports, shelves, single or multiple doors, computer/bulkhead fittings, HEPA filters, etc. Access may be through a door, antechamber, removable side panel or lift-off-from-base design. Custom Chambers can be fabricated from a variety of materials including acrylic (clear, white, black and ESD), polycarbonate, polypropylene, PVC and other materials. ETS Custom Design Services allow the end user to fabricate an environment to meet their specific requirements for environmental conditioning, easy access and optimized space.

Features:

- **1 to 125 ft^3 (3540 l) working space**
- **Optional microprocessor PID control**
- **Humidity and/or temperature control**
- **Optional software package**
- **Single and multi-door access**
- **6”, 8” and 10” glove or iris port access**
- **Continuous set-point & level displays**
- **PS30 welded seam construction**
- **Available with or without control systems**
- **Optional touch screen control**
- **Clear & white acrylic construction, other materials available**
- **Wide range of options, accessories and 3rd parameter monitoring also available**



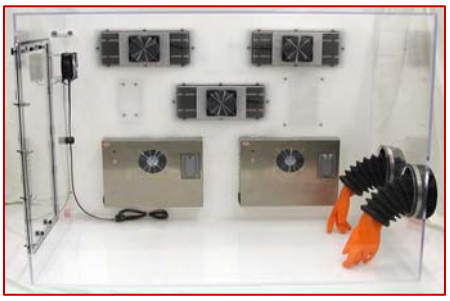
General Description:

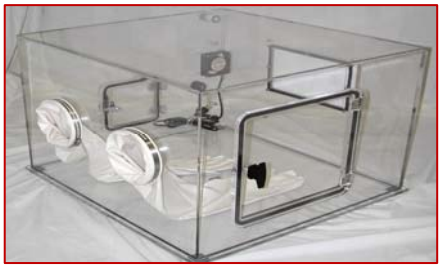
Custom chambers can vary from the modification of a standard enclosure to a totally new design. When working with ETS during the design phase, please be aware that the equipment and samples placed inside will have an impact on the conditions that can be maintained and the time required to increase or decrease to the set point. Any item that adds heat or humidity to the environment will have an impact on system performance. 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 controller selected.

ets electro-tech systems, inc. www.electrotechsystems.com
3101 Mt. Carmel Avenue, Glenside, PA 19038 • Tel: (215) 887-2196 • Fax: (215) 887-0131

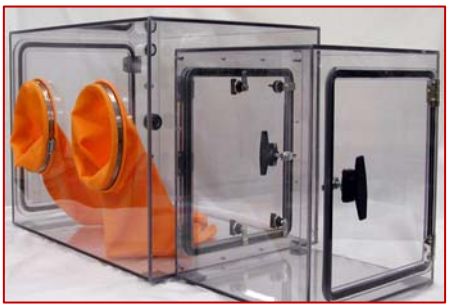
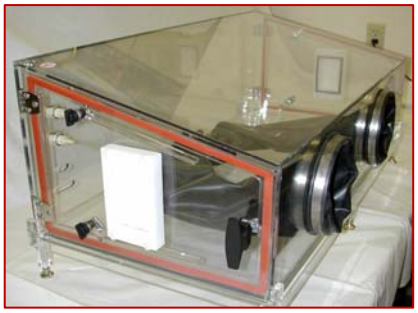
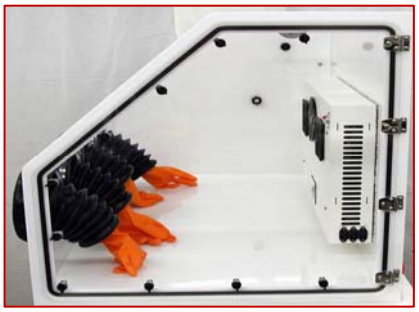
Shown below are several examples of custom designed systems utilizing PID Microprocessor Control, multiple doors, lift-off-from-base & removable side panels, antechambers, insulation, HEPA filtering, gloves, iris ports, shelves, thermoelectric cooling, heating, humidification and dehumidification.





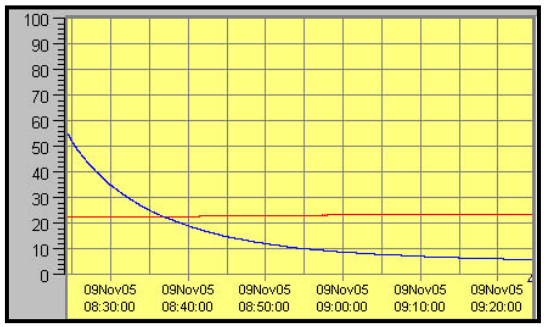




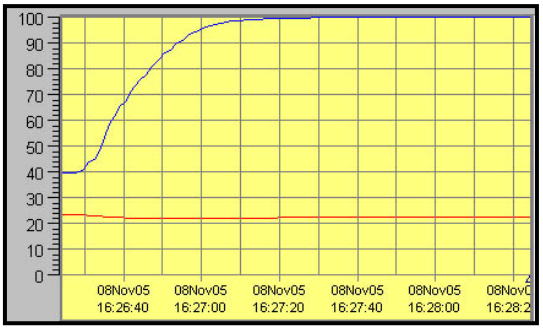





Custom Chamber Performance Characteristics:

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. The following charts show the time typically required to decrease and increase humidity in a 13 cu. ft. (368 l) enclosure (Blue = RH, Red = T °C) plus humidity gradients in a no-load situation.



Rate of humidity decrease



Rate of humidity increase

Available Humidity/Temperature Control Configurations:

ETS Series 5500-8000 Custom Designed Enclosures can be ordered as a freestanding chamber or equipped with customer selected controllers and operating systems.