



ALTITUDE CHAMBER / HYPOBARIC CHAMBER

Environmental Tectonics Corporation (ETC) is pleased to present the FALCON Altitude Chamber. This hypobaric chamber tests for Hypoxia – the result of oxygen deficiency which is a serious danger for aviators.

As one ascends, the air becomes thinner, with less oxygen in every breath. The lack of oxygen creates hypoxia, which can lead to incapacitation or death. Hypoxia can be very insidious because signs of the condition show up in people at different altitudes and symptoms vary from person to person.

To combat hypoxia pilots learn, through first-hand observation, how they respond. Once an individual learns to recognize how hypoxia manifests itself within his or her own system, he or she can take appropriate action if symptoms appear while flying.

The FALCON Chamber is the ideal, cost effective altitude physiology training system with a proven performance history spanning over 40 years. It provides a safe and efficient setting to conduct aeromedical research or practice a variety of low oxygen training protocols.



LARGE, RECTANGULAR
WINDOWS ALLOW FULL
VIEW OF THE OCCUPANTS



COMPUTER CONTROL AND
MONITORING STATION



INTEGRATED CONTROL
CONSOLE



UNIT OF CHOICE FOR
FLIGHT CREW TRAINING
WORLDWIDE



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ALTITUDE CHAMBER / HYPOBARIC CHAMBER

APPLICATIONS

Training and Research

- Hypoxia
- Pressure Breathing
- Mechanical Gas Expansion
- Hyperventilation
- Oxygen Equipment Use
- Rapid Decompression
- Stress Interaction
- Emergency Procedures
- Life Support Equipment Testing

BASIC PERFORMANCE SPECIFICATIONS

- Operational altitudes between ambient and 100,000 ft.

- Main compartment ascent rate 12,000 ft./min
- R/D compartment ascent rate 16,000 ft./min
- Ability to create and retain specific flight profiles

ADVANTAGES

- Chamber holds multiple occupants at once
- Assists in identifying individual physiological responses to low oxygen environments
- Affords ability to repeat low oxygen/no oxygen corrective emergency procedures
- Less intimidating rectangular design and open interior layout
- Autoflight automated flight control system

- ASME PVHO (Pressure Vessel for Human Occupancy) and NFPA (National Fire Protection Association) code compliant. Optional CE certification can also be provided

ADDITIONAL EQUIPMENT FEATURES

- Flexible and proven rectangular design
- Two compartments (R/D and Main)
- Automated Psychomotor Assessment System (APAS)
- Reactor Management System (RMS)
- FHSS Flight Hypoxia Simulation System



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