

AeroMed® ATC

Aerosol Treatment Chamber



General Product Description

The AeroMed® ATC is an aerosol treatment chamber designed to protect healthcare staff during the administration of Pentamidine or during sputum induction procedures.



AeroMed® Aerosol Treatment Chamber

The CDC states, “All cough-inducing procedures performed on patients who may have infectious TB should be performed using local exhaust ventilation devices (e.g., booths or special enclosures) ...”

The patient sits in the booth during the procedure. Air is drawn into the booth through a pre-filter on the top of the unit. The air is then drawn past the patient and through a HEPA filter that is located under the seat. The HEPA

filter removes airborne particulate contaminants at a removal efficiency of 99.97% on particles 0.3 microns in size. This filtered air is exhausted from the back of the booth just above the floor. The process of exhausting filtered air from the treatment chamber creates a negative pressure in the chamber relative to the surrounding area. This difference in pressure prevents potentially contaminated air from leaving the booth and possibly infecting others.

The HEPA section is protected by a heavy gauge perforated grille to prevent damage by the patients. The pre-filter is accessed by lifting the patient chair which is fastened in place by tamper resistant screws.

Shelves are provided on the units exterior to support a nebulizer or other equipment required to perform aerosol procedures. A shelf is provided on the inside of the unit for patients set personal belongings on.



Air exits booth beneath patient seat

Air Exchange Rate

The volume of air being exhausted from the chamber is 140 CFM. This volume of exhaust means that the air within the chamber is exchanged in excess of 150 times per hour.

Construction

The chamber frame is constructed of 12 gauge cold rolled steel that is powder coated. The clear window panels are formed from ¼” lexan for maximum durability, visibility and lighting.

HEPA Filter Specifications

Each AeroMed® HEPA filter shall have a minimum efficiency of 99.97% on 0.3 micron size particles when tested on a Q-107 Penetrometer. This testing is done in compliance with Institute of Environmental Science standard IES-RP-CC001.3. Each filter is individually tested and labeled to show compliance with this standard.



HEPA filter under seat

Options

The AeroMed® ATC is available with a pressure monitor and alarm that provides quantitative proof of proper operation. The monitor gives a continuous, real time display of the pressure differential between the room and the chamber interior. If the air pressure of the chamber interior becomes positive relative to the space outside of the booth, both an audible and visual alarm will activate. This helps to prevent the unsafe use of the chamber.



Pressure Monitor

Specifications

- Dimensions:* 72” H x 31 ½” W x 48” D
- Electrical:* 120 Volts, 0.9 Amps, 100 Watts
- Air Filters:* 2 Pre-filters, 30% Eff.
HEPA 99.97% @ 0.3 microns
- Air Volume:* 140 CFM
- Weight:* 500 lbs
- Noise Level:* < 55 dBA
- AC/H:* >150



AeroMed® ATC with HEPA exhaust in back