



Modular Cleanrooms, Inc.

MODULAR and PORTABLE MEDICAL GRADE CLEANROOMS

Modular Cleanrooms manufactures the most economical and easily erected solution to your Clean Room needs.

Versatile:

The Bio-Clean was specifically designed to meet the requirements of the Medical and Pharmaceutical Industries as well as the specifications found in USP 797. The Bio-Clean design emphasizes particle infiltration as well as microbial contamination and can be designed and certified to as clean as Class 100 (ISO 5).

Bio-Clean's design allows it to be used as a free standing room or in combination with existing walls and ceiling. The Bio Clean comes prefabricated for minimal on-site installation time and is self-contained with all components factory finished. All you have to do is supply electricity and A/C. Average installation time is 2 to 4 days from Start to Certification.

Construction:

The Bio Clean Room is constructed from 1 $\frac{3}{4}$ " x 4 $\frac{1}{2}$ " Extruded Aluminum. An optional 4 $\frac{1}{2}$ " x 4 $\frac{1}{2}$ " floor base is available that allows vinyl flooring to be covered up the wall. Std. Wall panels are Clear Acrylic. Plexiglas, PVC and Aluminum are also available. Standard Aluminum components are coated with a clear anodized finish. (Dark Bronze is also available.) Air flow patterns and room pressurization is controlled with dampered control exhaust louvers located the walls.

The Standard Ceiling Grid is a Self Supporting System (Uni-T) that can free span up to 15' without the need of support from above or below. The Uni-T is constructed from extruded aluminum with a white painted finished and has gasketing to assure a tight seal.

Flexibility:

A major advantage to the Bio-Clean is its ability to be enlarged or reduced without having to tear the entire room down. Compare the ease of erecting these rooms to the disruption and contamination generated during installation of sheet rock walls as well as downtime and potential revenue loss.

The Bio-Clean and its components have the ability to be changed in size and cleanliness levels on site and is almost 100% reusable. Depending on your specific needs the Bio-Clean can be supplied with interior or exterior Gowning/Anti rooms. Interiors walls can be added to separate or enclose equipment or processes as dictated by your needs.

The Bio-Clean can be designed with manual or powered doors, double doors and automatic sliding doors. To assist in controlling contamination within the Cleanroom walls can be fitted with a Pass-Thru(s) or Larger Cart Pass-Thru(s).

Vertical Aluminum components are hollow and can be fitted with surface mounted Light switches and 110v outlets. Phone and Data lines can also be installed during the construction or later.

The Bio-Clean Room can accommodate either Fan Powered or Ducted Hepa Filters with a minimum efficiency of 99.99% on .3 microns. Fan Powered Filters can be supplied with A/C collars allowing ducted return air or direct connection to air conditioning.

Light fixtures are specifically designed to meet the contamination control requirements found in all Cleanrooms from Class 100,000 (ISO 8) to Class 10 (ISO 4) and come sealed on the top and have gasketed doors to access light bulbs.



Additional Features:

Pass-Thru in the wall allows products to be passed in and out of the room without the need for a technician to leave the Cleanroom. The Bio-Clean is one of the only Cleanrooms that offers a Scrub Panel – this panel is manufactured from the same materials of a standard panel, except the clear acrylic panel is replaced with a ridged panel that is easily cut to allow access of piping and can support the weight of a pedestal sink.

Standard Construction

Includes:

- 1 $\frac{3}{4}$ " x 4 $\frac{1}{2}$ " Extruded Aluminum frame, Coated with a Clear Anodized finish (Dark Bronze also available)
- Dampened Exhaust Grills

Wall Material:

- Std. Clear acrylic or Lexan panels
- Scrub Wall: Aluminum, Painted Steel or Formica Covered Particle Board

Optional Material:

- Colored or Tinted Plexiglas



Dual Pass-Thru



Automatic Sliding Door

Lights:

- Lighting 2x4 4-Tube Fluorescent (standard)
- Energy Saving electronic Ballasts
- Flow-Thru and Tear Drop also available

HEPA Filters:

- Fan Power or Ducted HEPA's 99.99% min. on .3 microns,
- Fan Powered Hepas are available with 115v, 220v or 277v motors
- Optional Room Side Replaceable "RSR" Filters and Duct collars

Accessories:

- Pass-Thru
- Wall Switches and Electrical Outlets
- Automatic Sliding Doors
- Double doors
- Framed opening (Archways for Strip door)
- Scrub Set-up Kit (Sink, Auto. Soap Dispenser and Hand Dryer)



110v Outlet

Other Optional Equipment and Services:

- Complete on-site Installation and Certification
- Horizontal and Vertical clean benches

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