

THE EXPERT IN "PARTS MANAGEMENT SYSTEMS" Cleanrooms

MAC Controlled environment enclosures maximize efficiency of cleanroom molding for a fraction of the cost of a cleanroom facility. They can enable a molder to quickly and inexpensively enter the growing medical molding market, add to existing cleanroom capacity, or further enhance contamination control by further isolating parts within an existing cleanroom.

MAC offers three types of cleanroom enclosures including: Under the Press, Beside the Press and Over the Press designs.

Frame work for portable enclosures are fabricated of 2" square 12-gauge structural steel unless otherwise specified. Aluminum and stainless steel are available as options. Smaller enclosures are welded together as a complete unit while larger enclosures may be fabricated as modular units. Choice of sidewall materials include vinyl strip curtains or polycarbonate panels.



Options:

- Antistatic material for sidewalls
- Air conditioning control
- Humidity control
- Built-in conveyors or worktables
- Automatic bag or tote fill systems

Features:

- HEPA fan module with pre-filter
- Low Profile 2' x 4' self contained blower/filter
- 1/4" H.P. motor, 115 volts
- Nominal air flow 800 CFM
- Minimum efficiency of 99.99% at 0.3 microns
- Low energy consumption
- 2.4 amps full load
- Sound level to 58 dba
- Red neon light to verify unit is operating
- Heavy duty locking casters

Framework

The framework is fabricated of proprietary aluminum extrusions finished with white epoxy enamel. The cross tees for separating components are 1-1/2" anodized aluminum T-grid with tabs for attachment. The horizontal members are 2" X 4", and the vertical support legs are 3" X 3". All fasteners may be easily removed to allow disassembly of the unit for relocation. Leveling mounts are installed at the base of each leg and are adjustable. The pads have a stainless steel housing with rubber base where it contacts the floor. A 1/2 - 13 stud on the pad fits inside the base of the leg and a hex nut is used for adjustment. A jamb nut is included to fix the height once set. Closed cell gasketing is included for field installation to seal the components from the room.



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Hard Panel Walls

Blank panels are ½" gypsum, vinyl covered on both sides with white textured covering. All edges are sealed. If required, special sized will be cut and edges resealed at our factory. No field cuts are necessary.

Casters

There are 2 types of Casters offered. Stem Casters are available in 4" and the Plate Casters are available in 5" and 6". The size of your casters will be determined by the size and weight of your soft-wall cleanroom. All Casters feature a molded polyurethane wheel and a Tech-Lock brake.

Filter Modules

Filtration is provided by our Model 421-SP motorized HEPA filter modules. Standard efficiency is 99.99% at 0.3 microns by DOP test. The modules are provided with an 8' power cord and variable speed controller mounted on each unit. If a pre-wiring package is purchased, the speed controllers are located in a control panel attached to the leg. Standard voltage is 120/1/60.

Light Fixtures

Light is provided by our 2' X 4' TAP fixture with F40-T12 medium bi pin lamps. Lamp tubes ARE included and are shipped installed in the fixtures. The lens is standard clear prismatic housed in an extruded aluminum frame. Wiring connection is made through an access cover in the top of the fixture. Standard voltage is 120/1/60.

Pre-wiring Package Option

The pre-wiring package option includes: Control panel housing the following: Fusing for each filter module, and for each light fixture circuit. Speed controllers for the HEPA filter modules. Filter modules are wired to speed controllers in multiples of (3); i.e. one speed controller operates (3) filter units. Power distribution block for single point connection to field power. Wiring harnesses are provided for components to connect them to the control panel. Harnesses are marked for re-assembly.

Warranty

MAC automation warrants its products for a period of one year from the date of shipment. The warranty covers materials and workmanship of all components of our soft-wall clean rooms. If an item proves defective during the warranty period we will either repair or replace it at our option. Under no circumstances will we be responsible for any labor costs for removal or repair unless approved in writing prior to the work being performed. These costs will be approved solely at our option depending on the circumstances. We will also not be responsible for any costs related to the failure of one of our products.



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