Plastic Concepts Fume Hood

Description

Plastic Concepts new Fume Hood design is available in lengths of four, six and eight feet with a height of 76” and depth of 32”. The hood is normally shipped in two pieces and assembled on site by the customer. Customized sizes are available upon request. The Standard Fume Hood is constructed of stress relieved white polypropylene, an extremely durable and non-corrosive thermoplastic, highly resistant to most acids, solvents, and other corrosives. Polypropylene offers non-conductive properties and easy cleaning as well.

The hoods are designed to have a face velocity between 60 – 100 FPM across the face shield provided the sash is opened to 18”. The air that is pulled from the room into the hood area is exhausted through the front lip to keep the majority of contaminants in the air from contaminating the work area. The base plenum below the work surface is designed to have a velocity of 500 FPM or less to keep large particles and moisture from being air-borne. The rear plenum velocity is designed to be 1000 FPM to keep particles air-borne that have been captured in the base plenum.

Process

- Semiconductor and Microelectronic fabrication and assembly
- Biological (Biotech and Biomedical) and Pharmaceutical applications
- Grinder and sanding operations

Construction

- Main construction of hood is white polypropylene, fully welded, common plenum and a full width welded base cabinet providing secondary containment
- All polypropylene valves, hinges, and plumbing
- Drain plug in base plenum for any spillage of liquids in hood
- Front lip exhaust pull for when sash is fully closed
- Counter balanced adjustable sash, made of acrylic
- Electrical 115v, 15 amps for light. Three prong cord 15’ long
- Internal wiring: 12/3 gauge cord with rubber coating
- Operations manual and test certification

Equipment

- Vapor-proof fluorescent lighting
- Audible alarm monitoring exhaust pull

Options

- Sash available positioning: fixed, or hinged
- Sash materials: PVC, Polycarbonate (Lexan), or Safety Glass
- Digital readout velocity meters
- Automated velocity controller to maintain a constant velocity setting as sash is adjusted
- Amber lighting for photo-resist
- Hood colors: blue, black or combinations of colors
- Static control devices
- G.F.I. receptacles

- Fixtures: serrated hose-cocks for gas, air, vacuum and liquid, N2 and DI guns
- Glove and side ports
- Perforated work surface

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