Plastic Concepts Laminar Flow Hood



Description

The Plastic Concepts, Inc. Standard Laminar Flow Hood is constructed of stress relieved 1/2" thick white polypropylene, an extremely durable and non-corrosive thermoplastic, highly resistant to most acids, solvents, and other corrosives. Polypropylene also offers non-conductive properties as well. The hood is designed to operate with a face velocity of 80-120 FPM. The full width plenum with adjustable dampers provides maximum efficiency for fume removal. The base cabinet is fully supported with adjustable levelers for easy installation. Each Plastic Concepts hood comes with an operations manual, including test data and certification, written warranty, and installation instructions.

Process

- Semiconductor and Microelectronic fabrication and assembly
- Biological (Biotech and Biomedical) and Pharmaceutical applications
- Grinder and sanding operations
- Etching, plating, coating, and cleaning applications

Construction:

- Main construction of hood is thermal stick welding that provides a strong, durable and long lasting joint attachment. All edges are chamferred to ensure maximum weld area that will not delaminate.
- All polypropylene valves, hinges, and plumbing

- Vented base cabinet for storage of acids and chemicals. Base cabinet can serve as secondary containment.
- Lip exhaust is designed to provide air for the hood even in the event the sash is fully closed.
- Counter balanced adjustable sash, made of acrylic.
- Electrical, 115v, 15 amps for lights and blowers.
- Internal wiring: 12/3 gauge cord with rubber coating
- Fume hood supported by a painted steel frame with stainless steel leveling feet
- Operation manual and test certification

Equipment:

- Variable speed blower
- Vapor-proof fluorescent lighting
- HEPA Filter, 99.99% efficient on .3 microns
- Pre-filter, large contaminant particle removal
- Magnehelic air pressure gauge to monitor HEPA filter replacement
- 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: serrate cocks for gas, air, vacuum and liquid, N2 and DI guns
- Glove and side ports
- Casters on the base for easy re-location.

