



CleanAir Solutions, Inc.

The Cleanroom Specialists



PFH SERIES

ACID - Polypropylene Fume Exhaust Hood

Fabricated from white polypropylene, an extremely durable and non-corrosive thermoplastic; highly resistant to most acids, solvents and other liquids. Units are made to order in five basic sizes. The basic console fumehood requires a remote exhaust system. Unit consists of a white polypropylene structure with a sliding adjustable clear acrylic sash, internal fluorescent lighting, front panel for controls, a solid reinforced work surface with front lip, removable rear baffles for cleaning, and hinged vented doors for storage below the work surface. Constant Volume Bypass Fume Hoods with vertical sliding counterbalanced face shields also available

SOLVENT - Steel Exterior and Stainless Steel Interior Fume Exhaust Hood

- Constructed of 16ga White Epoxy Painted Steel exterior and type 304SS stainless steel interior with #4 finish
- Vertical counter balanced sliding face shield with polycarbonate insert
- Eggcrate upper face for bypass operation
- (4) Vented hinged doors at base section
- Adjustable baffles on inner back wall for exhaust airflow balance
- (2) 10" exhaust collars at top of unit
- (4) 2ft single pin fluorescent light tubes 100 f.c.

SPECIFICATIONS

Construction ACID Hood - 1/2" and 3/8" white stress relieved polypropylene. Adjustable rear wall baffles for exhaust air. Heat welded support seams for additional strength. Reinforced work surface for heavy loads. Vented storage cabinet. +/-0.5" static pressure drop across hood. Hoods fabricated with all internal plumbing, electrical and instrumentation complete as per customer requirements. Mechanical leg leveling. Rear exhaust plenum terminates at 10" dia. Collar(s). Angled sliding acrylic face shield. 12" opening at face. 6'-8' hood shield in 2 sections with center support guide.

Also available in Epoxy painted steel, 304SS and 316L Stainless steel as required.

Electrical & Power Requirements- All electrical components are UL Approved. Standard 115V, 15A, 1 Ph, 60 Hz. Junction box for hard wiring.

Lighting- Recessed 2 pin fluorescent lighting. 125 ft. candle +/- 20 ft. candles.

CleanAir Solutions – PVE Series

VERTICAL UNI-DIRECTIONAL CLEAN AIR WORKSTATION:

Designed as an exhausting vertical laminar airflow clean workstation, it is to be used when toxic odors and fumes are present. Intake air passes through a HEPA filter (99.99% efficient on .3 microns) providing a Class 100 airflow into the work chamber, and downward through the perforated work surface. It is then exhausted through the internal wall duct for discharge at the top of the unit. A remote exhaust air system is required to balance the work chamber's airflow pattern. The use of polypropylene offers immunity to corrosion, resistance to acids and solvents, non-conductive properties, and a minimum of maintenance. Storage space is available underneath the work surface.



Individually tested and certified to meet or exceed the specifications for Unidirectional Flow Clean-Air Devices as per Institute of Environmental Sciences and Technology IEST-RP-CC002.2.

SPECIFICATIONS:

Filter- Three inch HEPA (High Efficiency Particulate Air) type, PSL challenged, zero probed. Aluminum frame mini-pleat design. Minimum efficiency of 99.99% at .3 microns.

Pre-filter- 1" bonded polyfiber media minimizes surface-loading. 78% arrestance - 56-57 ASHRAE.

Airflow- Requires facility exhaust. Average measured clean air velocity 90 fpm (+/- 10fpm). All measured values within +/- 20% uniformity. Negative resistance, .50 IWG
Construction- ½" white stress relieved polypropylene.

Heated welded support seams for additional strength. Work surface perforated front and seams for additional strength. Work surface perforated front and rear for Unidirectional Flow, removable for cleaning. Front loaded HEPA filter.

Hinged acrylic face shield. Vented storage cabinet. Support ribs under work surface. Fabricated with all plumbing, instrumentation and electric complete (as per option requested).

Electrical & Power Requirements- All electrical components are UL Approved. Standard 115v, 15 amp, 1 Ph, 60 Hz.

Motor/blower Assembly- High efficiency motors to reduce electrical load. Motors are thermally protected & self-lubricating. High capacity metal forward curved blowers with direct drive motors.

Lighting- Recessed 1 pin fluorescent lighting. 125 ft. candle +/- 20 ft. candles.

Controls- Solid state, adjustable airflow control, 80-120 fpm, 1A max. load capacity, internally mounted to prohibit accidental change. Illuminated switches on face panel for motor and lights.



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WPS SERIES

Polypropylene exhausting wet process station

Designed as an exhausting wet process station, it is to be used for semiconductor research and manufacturing. Air is exhausted through the adjustable rear baffles and up the back wall duct for discharge at the top of the unit. A remote exhaust air system is required to balance the work chamber's airflow pattern. The control panels are located above the work surface in individual compartments at eye level within easy reach of the operator. Single-point electrical service provides convenience for simplified installation. By employing adjustable rear wall baffles, lip exhaust and sliding clear PVC safety shields, efficient capture velocities can be maintained at significantly lower CFMs.



The use of polypropylene offers immunity to corrosion, resistance to acids and solvents, non-conductive properties, and a minimum of maintenance. Storage space is available underneath the work surface.

SPECIFICATIONS

Construction- 1/2" and 3/8" white stress relieved polypropylene. Heated welded support seams for additional strength. A reinforced solid work surface is used for heavy loads. Sliding PVC acrylic face shield. Vented storage cabinet. Support ribs under work surface. Fabricated with all plumbing, instrumentation and electrical complete (as per option requested). Units are also available in Epoxy painted steel, 304 and 316L Stainless steel for solvent hood requirements.

Electrical & Power Requirements- All electrical components are UL Approved. Standard 115v, 15 amp, 1 Ph, 60 Hz. Illuminated switches on face panel for motor & lights

Lighting- Recessed 1 pin fluorescent lighting. 125 ft. candle +/- 20 ft. candles

Design- These units are designed to specification. We are able to provide any type of process equipment to meet specifications. Most common components are: utility sinks, heated baths, filtered etch baths, dump rinsers, cascade rinse tanks, photo resist spinners, goosenecks, hot plates, DI recirculation systems, ultrasonic tanks, aspirators, nitrogen and DI spray guns