

# Perchloric Acid Scrubber Fume Hood



## Features:

- One piece, fibre glass construction for easy cleaning and decontamination.
- Complete with integral work top drain trough, cold water service fitting, and cold water hood washdown.
- For smooth air movement assures high level of comfort, safety and efficiency.
- Adjustable interior baffles designed to minimize turbulence and optimize containment.
- Vertical sash for neat, clean appearance and streamline air features.
- Exclusive sash leveling and alignment features assure easy-smooth sash operation.
- Energy and water saving poly cube.
- Designed and tested using ASHRAE 110-1995, BS 7258, and DIN 12 924 standards.
- High performance mist eliminator
- CSA certification wiring
- Integrated scrubber fume hood

## Available Option:

- Automated chemical feed system
- Chemical dosing pump
- Automated purge system with non metallic solenoid
- 115/220 Voltage
- Automated water make-up
- Perchloric wash down system
- Level control for chemical tank/sump tank
- Polypropylene faucet
- Service Fittings and Piping
- Gas fitting CSA certified
- Conductivity meter
- Ph meter
- 0-14 PH probe
- Audible pressure & air flow alarms
- Thermal flow switch
- Photohelic pressure gauge
- Differential pressure alarm
- Tempered Sash Glass/PVC
- Constant volume flow
- Variable volume flow
- 99% Ultra High efficiency removal
- 96% High efficiency removal
- Side outlet
- Add on scrubber fume hood



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Plasticair Inc.

# Perchloric Acid Scrubber Fume Hood

## Specifications

Scrubber Fume Hoods are furnished with a PVC/FRP scrubber. Each fume hood is complete with counter balanced, sash of ¼". A full length perforated spray pipe is located inside the scrubber, and provided to simplify periodic washdown procedures. Hood exteriors are fabricated of cold rolled steel with epoxy finish. The exhaust duct collar is FRP 12" O.D. or custom design.

**Chamber material:** Moulded glass fibre ¼" (6mm) thick polyester impregnated. With corrosion barrier, and synthetic veil. Max operating temp 200C, mould smooth finish. Corrosion resistant to acids, alkalis and mild solvents.

**Work surface:** Integral with the fume chamber and is dished with coved corners. Drain and trough are moulded in for flexible hose connection. Work surface is 1" (25mm) thick FRP with a max temperature rating of 220°F.

**Sliding sash:** Full white P.V.C frame with solid P.V.C framed window. Sealed spring operated. Glazing either clear P.V.C or safety glass.

**Washdown:** P.V.C wide angle sprays for all interior surface cleaning complete with control. No washing by hand required.

**HI-LO control:** Lower baffle will turn to allow full worktop level exhaust for heavy gas removal for full high level exhaust. This control operates with the sash closed for operator safety. All baffles are removable and are the same construction as the fume chamber.

**Fume scrubber module:** This can be supplied with the hood or added at a later date. Front access only is required for installation.

**Polypropylene mist eliminator:** 90% removal of 5µm and larger droplets.

**Face velocity:** 100 ft/min (0.5 m/s).

**Recirculation tank:** This is a separate unit, complete with pump, valved drain, overflow, float valve inlet, and hinged top. Either supplied with the hood or at a later date.

**Side panels, by-pass grille, and bench unit are constructed from 16G steel, powder coated. Colour to be selected.**

**Water inlet size:** ½" N.T.P

**Pump type:** IWAKI MD Series Magnetic Drive Pump

**Tank drain size:** 1 ½" DIA

**Pump motor:** ¼ HP

**Worktop drain:** 1 ½" DIA

**Pump elect:** 110V/1/60, 220/1/50

**Scrubber drain:** 1 ½" DIA

**Pump perf:** 12 gpm, 12 PSI



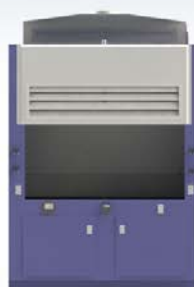
FHS-1200-P99



FHS-1500-P99



FHS-1800-P99  
(Side outlet)



FHS-1800-P99



FHS-2400-P66



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MODEL	WIDTH DIMENSION A Inch (cm)	FUMEHOOD HEIGHT DIMENSION B Inch (cm)	SCRUBBER HEIGHT DIMENSION C Inch (cm)	DEPTH DIMENSION D Inch (cm)	AIR FLOW CFM (litres/s)	FUME HOOD PRESSURE DROP INCH W.G. (Pascal)
FHS-1200-P96	47" (119)	96" (244)	98" (249)	34" (86)	550 (260)	3.5" (872)
FHS-1200-P99	47" (119)	96" (244)	109" (277)	34" (86)	550 (260)	4.5" (1121)
FHS-1500-P96	59" (150)	96" (244)	98" (249)	34" (86)	715 (337)	3.5" (872)
FHS-1500-P99	59" (150)	96" (244)	109" (277)	34" (86)	715 (337)	4.5" (1121)
FHS-1800-P96	71" (180)	96" (244)	98" (249)	34" (86)	880 (415)	3.5" (872)
FHS-1800-P99	71" (180)	96" (244)	109" (277)	34" (86)	880 (415)	4.5" (1121)
FHS-2400-P96	94" (239)	96" (244)	98" (249)	34" (86)	1200 (566)	3.5" (872)
FHS-2400-P99	94" (239)	96" (244)	109" (277)	34" (86)	1200 (566)	4.5" (1121)

