



***Suggested Specification For Johndec Duct Mounted Series E Fume Scrubber**

Duct Mounted Series E Fume Scrubber

(Ideal For Perchloric Acid Use Fume Cupboards)

The fume scrubber shall be a Johndec Duct Mounted Series E Fume Scrubber. This combination fume scrubber and mist eliminator shall be fitted directly to the outlet of the fume cupboard capable of removing 98% of Perchloric Acid fumes by weight. The unit shall be manufactured from chemical grade fire retarded UPVC incorporating eliminator pads and spray bar. The fume scrubber shall be fitted with a removable clear viewing panel to monitor the operation of the sprays and to enable the removal of mist eliminator pads for cleaning & maintenance.

The fume scrubber recirculating/neutralising tank and chemical resistant magnetic drive recirculating pump shall be housed under the fume cupboard within the support frame. The recirculating tank and pump shall be fitted on a spillage tray with returned sides to contain any accidental spillage.

The recirculating pump shall be magnetic drive, seal-less centrifugal with all wetted parts made of non-metallic materials. The pump body and magnetic housing shall be moulded in the plastic materials Polypropylene or PVDF. To obtain maximum chemical resistance the impeller magnets shall be fully encapsulated in the plastic impeller. To optimise the service life, the shaft and thrust washers shall be made of high quality ceramic, impeller bearings of Rulon. The O-ring between pump body and magnet housing shall be made in viton.

The recirculating/neutralising tank shall be manufactured from chemical grade fire retarded UPVC, incorporating level sight panel, ball float valve, drain, drain valve, overflow, removable lid and a low liquid level switch.

The fume scrubber recirculating pump shall be connected to the fume cupboard control system and shall operate together with the fume exhaust fan. The liquid level switch that is fitted to the recirculating tank shall also be connected to the fume cupboard control system, in the event of low water level the switch shall command the fume cupboard control system to sound an alarm and display a message "Low Water Level" at the same time as this message the control system will isolate the pump. On return of the correct water level the fume control system will reset and the pump shall restart.

The fume scrubber system, recirculating tank, chemical pump, spray bar, drains and overflow shall be provided pre-plumbed and left for easy connection to water and drain supply by the site plumber.

pH Dosing Facilities (*Optional)

The fume scrubber shall be fitted with pH dosing facilities to maintain high scrubbing efficiency and control the pH of recirculating water. The pH dosing facilities shall be of a recognised Australian or overseas manufacture and shall include pH controller, high viscosity dosing pump that is self-priming and suitable for use with sodium hydroxide and pH probe fitted to water reservoir.



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