



**Escos Fume Scrubbers provide excellent air pollution control for water soluble chemicals present in the laboratory fume hood exhaust fumes.**

**Specially designed to be compatible with Escos Frontier Mono and Frontier Duo Fume Hoods.**

### **FEATURES:**

**Excellent Chemical Removal Efficiency**

**Durable**

**Compact Design for Easy Placement**



Image 1: Top section of scrubber placed on top of the fume hood. There is an acrylic viewing panel, a packed bed, a liquid spray section as well as a demister in this unit.



Image 2: Bottom section of scrubber placed inside the base cabinet. Consists of a reservoir for scrubbing liquor and a pump which recirculates the liquor back into the system.

In recent years, there has been increased emphasis on laboratory operator safety and also environmental concerns like environmental health and protection. Governments respond by setting stricter rules to control the emission and quality of exhaust fumes from industries and laboratories. Therefore more and more laboratory designers and facility operators are considering the use of scrubbers for their fume hoods.

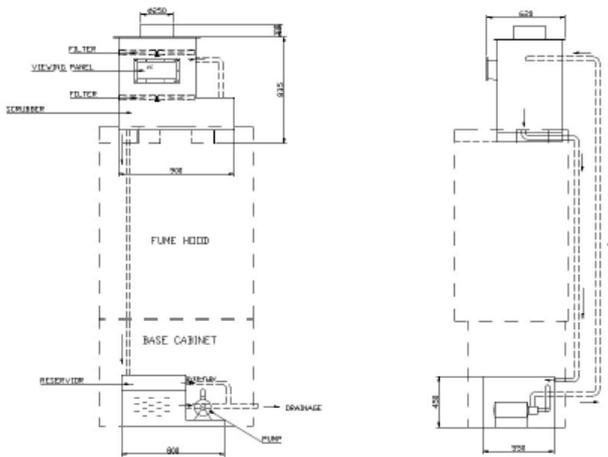
Esco fume scrubbers are optimally designed to save space as well as provide effective air pollution control and operator safety protection for fume hoods. This is especially important for perchloric acid fume hoods, so as to prevent a build-up of potentially explosive perchlorate salts on the exhaust fan as well as on the exhaust ducting system.

## FEATURES

**Excellent removal efficiencies:** Efficient counter-current gas/liquid contact results in 95-98% efficiency for most water-soluble acid and base laden airstreams.

**Durable:** Entire body of scrubber system made of chemical and corrosion resistant Polypropylene.

**Compact:** The packing, spray manifold and mist eliminator counted on top of fume hood, pump and reservoir in the base cabinet. This arrangement ensures that minimal extra space is required for the scrubber system.



## SCRUBBING PROCESS

Contaminated exhaust fumes from the fume hood enters the unit, passes through the packed bed (bottom filter), then through the liquid spray section, a mist eliminator (top filter) then into the exhaust system for release to the building exterior. The scrubbing liquor is collected in the reservoir in the bottom section and is recirculated by the pump back to be used in the liquid spray section.

The exhaust fumes and the scrubbing liquor pass in a counter current fashion, resulting in efficient gas/liquid contact.



ISO 9001  
REGISTERED FIRM



ISO 14001  
REGISTERED FIRM

Esco is a company focused on clean-air and containment technology with a history of quality products since 1978. We are highly oriented towards the international market place with sales in more than 60 countries. A network of international distributors and partners allows us to provide quick and responsive local service and support.

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