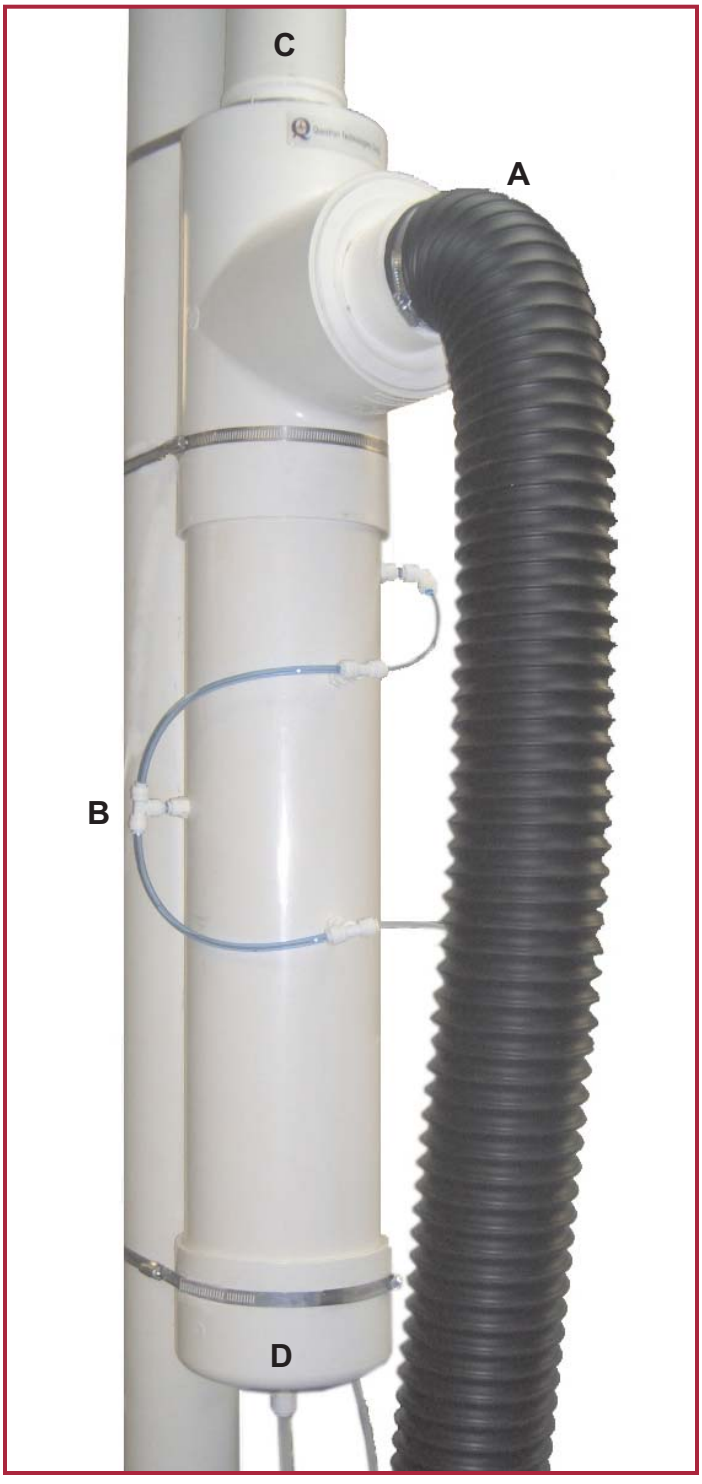
Exhaust Fume Scrubber

Introduction

Questron's Exhaust Fume Scrubber is designed to efficiently treat and remove toxic fumes from the laboratory. Primarily designed as an accessory to remove acids from the fumes generated by our Vulcan 84 Automated Digestion and Work-up Station, it can be used independently with other instruments as well.

Our exhaust fume scrubber is compact in size and can be installed in any laboratory. Employing a unique tube-within-a-tube design, it is constructed out of all plastic acid- and alkali-resistant material that allows it to effectively treat and remove up to 95% of the acid fumes.



Usage

The exhaust fume scrubber is connected to the instrument's exhaust port by a 10cm (4″) diameter hose (A). The fumes are treated by absorbing them in a scrubbing liquid mist produced by 4 nozzles (B) installed around the outer pipe. These nozzles spray liquid at the rate of 250ml per minute. Centrifugal force generated by flow direction reversal inside the tube and multiple surface interactions introduced by unique scrubber balls separate scrubbing liquid from air flow. Treated fumes escape out from the top of the scrubber (C) to the central ventilation system. A drain at the bottom of the scrubber (D) collects the scrubbing liquid.

Free running water can serve the purpose in most cases. In instances where there is a need to recirculate scrubbing liquid, we can supply a 1000-litre water tank with chemical-resistant pump as an option. This tank re-circulates liquid by spraying it into the exhaust fume scrubber with the help of the nozzles and then bringing it from the scrubber drain back into the tank. The liquid can then be replaced and disposed off as needed.

Specifications

Height	152cm (5′)
Tube OD	12.7cm (5″)
Scrubbing liquid flow	2 litres per minute
Number of nozzles	4
Recommended air flow	150 to 300CFM

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