

# SR-100 Venturi Fume Scrubber

The Techne Venturi Fume Scrubber is designed to remove water soluble constituents in the effluent gasses from Techne Industrial Fluidised baths which would not be removed in the optional Afterburner. The unit is designed to reduce concentrations of Hydrogen Halides (Chloride and Fluoride) produced by the decomposition of Halogenated polymers such as PVC and PTFE.

The SR-100 unit is designed to remove 95% of HCL in the exhaust gas so that as long as the scrubber is not overloaded by burning off too large a quantity of PVC the emerging gasses will contain a quantity of HCL low enough to be safely vented to the atmosphere. The unit operates by passing the scrubbing liquid through a nozzle which produces a hollow conical spray in the venture section. The nozzle and venture section are designed so that for a given quantity of scrubbing liquid, the maximum absorbing surface area of liquid is presented to the gas.

Additionally the action of the spray produces a motive force sufficient to induce the gas into the scrubber, thereby reducing the overall unit pressure drop. The gas and spray mixture then enters the separator / liquid storage vessel where the scrubbing liquid and its absorbed acidic contaminants are separated from the cleaned gas by centrifugal force. The clean air then passes through a demister section to remove the remaining droplets.

Scrubbing liquid is re-circulated through the system and clean make up water or caustic solution is added in accordance with the quantity of noxious elements absorbed.

It is recommended that a Techne Cyclone be fitted before the scrubber to avoid unnecessary loss of medium and loading of scrubber with particulates.



## Technical Specifications

Height: mm	1854
Floor Area: mm	450 x 450
Scrubbing Capacity:	HCl from 8 kg/hr of PVC
Make-up Water Requirements:	45 l/hr 10 gal/hr
Discharge limits HCl:	460 mg/m <sup>3</sup> 0.2 grains/ft <sup>3</sup>
Air flow:	2.8 to 7.0m <sup>3</sup> /min.
Inlet Spigot: mm	100
Outlet Spigot: mm	100
Water Inlet:	½" BSP
Caustic Soda neutralization available as option.	

## Ordering Information

FSSR1 230V 50/60Hz 80W 1Ph Shipping wt 127kg



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.