

## **ORIFICE SCRUBBER:**

**This orifice type of scrubber is maintenance free as the same is pump-less in operation.** ( i.e. circulation of liquid is not required which is normally required by any conventional scrubber). The orifice scrubber has two compartments, one with gas inlet nozzle and other with outlet air/gas nozzle. Both are at top as shown in the schematic layout. Contaminants like vapor/dust/gas are conveyed from the hoods/vessels/ducting to the scrubber inlet and pass through orifice venturi slot provided over the water/liquid level (pool of water). As the area through venturi is quite less compared to the other places, very high air velocity through orifice venturi breaks the liquid in micronic droplets. In other words the liquid splashes in to other compartment of the scrubber, hence severe turbulence is generated which finally scrubs the contaminants i.e. the contaminants are absorbed/separated in water. The other compartment of the scrubber will have mist eliminator, which will separate all the droplets from air stream. A clean air comes out from the scrubber outlet. A makeup water tank with float arrangement is provided for maintaining water level in the orifice scrubber. This Scrubber is connected to the Suitable Blower & Ducting.

Please note that this scrubber design is based on “very high velocity” at venturi slot while conventional Packed-Bed design requires low throughput velocity and **hence the Orifice Scrubber is very compact & economical compared to Packed-Bed Scrubber.**

**Reply-Jasmul Pollution Control Systems; 201/202, Gokul-A, Goras-wadi, Malad(w), Mumbai-400064, Tel-022 28013886, 29675210, Mobile-09820880707. Email- jasmulkamdar2001@yahoo.co.in**

