

Liquid Jet Ventilators

Liquid jet ventilators operate on the jet pump principle and are designed for large gas flows at a small compression ratio. The liquid jet emerging from the motive nozzle expands and disperses into evenly distributed single droplets hitting and entraining the surrounding air or gas, conveying and compressing it to a higher pressure. A chemical reaction is also possible.



Advantages

- Simple and reliable
- Corrosion and erosion resistant
- Automatic control
- Easy to install
- Low capital and installation cost
- Almost unlimited life with correct choice of materials
- No moving parts
- Maintenance free
- Quickly and simply brought into operation
- noiseless in operation
- Wide range of materials such as steel, stainless steel, cast iron, bronze, Teflon and graphite

Applications

- Drawing off air, gas and vapors from works, storage rooms or vessels
- Chemical and pharmaceutical industry
- Refineries
- Tank storages
- Pre cleaning of the suction medium by a separators or counter current washer installed after the unit or by using an absorbent as the motive

Range of Operation

- Pressure increase between suction and discharge pressure approx. 15 mbar
- Designed to convey large suction flows at small pressure differences
- Operation in the range between 1 and 20 mbar.

Installation Requirements

If water is to be saved or the suction medium contains acids, lye's, solvents and other chemicals, then the motive liquid can be stored in a vessel and recycled, by means of a pump.

