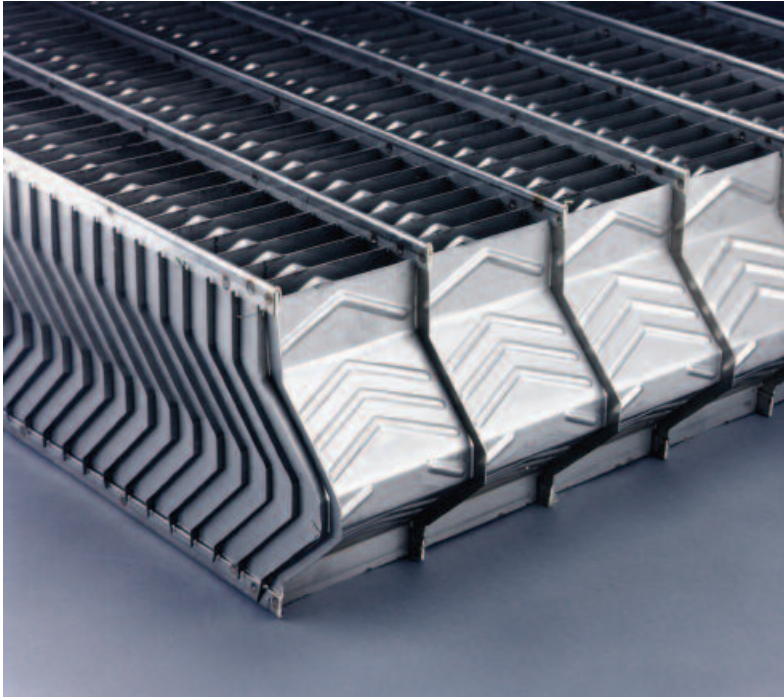


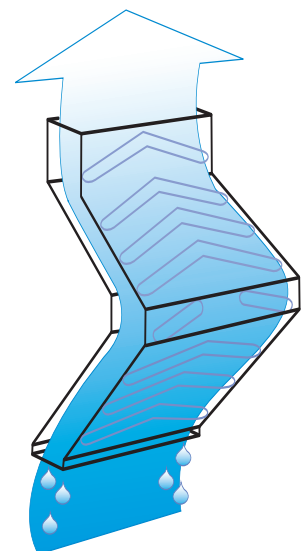
DV 270 (T 271)**DV 270****Droplet Separator (Mist Eliminator)**

- The most established droplet separator for vertical flow scrubber applications
- Extremely low pressure loss
- Suitable for retrofits
- Available in PE, PP, PPGC, PVDF and stainless steel alloys ASTM 304, ASTM 316Ti, ASTM 316L, ASTM 321; DIN 1.4301, DIN 1.4404, DIN 1.4541, DIN 1.4571. Special materials are available upon request.
- Equipped with flushing / cleaning systems for plugging sensitive applications

The DV 270 (T 271) droplet separator is a vane type separator for vertical flow. The gas flow charged with liquid droplets is directed through separator chambers which are designed for maximum effect on the gas flow. As a result of this configuration, inertial forces act on the droplets. The droplets impinge onto the profiles, where they form a liquid film which is subsequently drained off as a result of gravity. V-shaped impressions on the separator plates ensure that the liquid is drained off in the correct manner and returns to the gas flow.

Target applications

- Evaporators
- Absorbers
- Gas scrubbers
- Desulphurization units
- Gas coolers
- Exhaust air treatment plants
- Chemical plant



Principle illustration.

Performance data

All technical performance data apply for a system air / water at 20 °C and 1 bar.

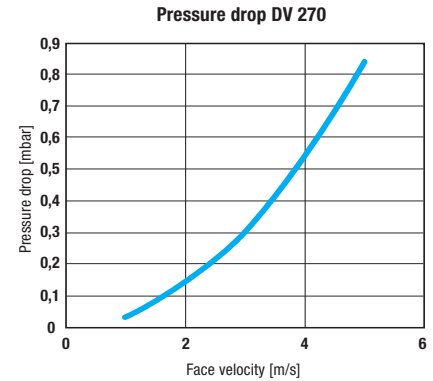
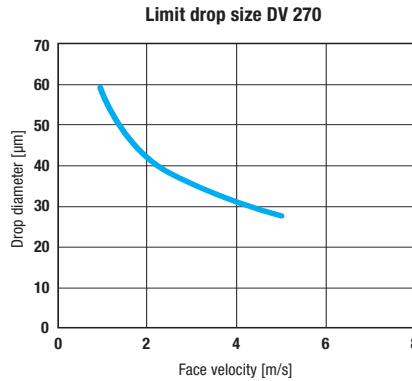
The limit drop size represents a performance characteristic of the profile. At the relevant velocity and operating conditions, it is the size of the smallest droplet that is completely separated.

The pressure loss of a mist eliminator should be as low as possible, in order to ensure favorable operating costs.

The separation efficiency specifies how much liquid the mist eliminator removes from the gas flow. It is customary to specify a maximum permissible inlet load and a guaranteed level of residual liquid content downstream of the eliminator.

Materials

- PE, PP, PPGC, PVDF,
- Stainless steel alloys ASTM: 304, 316Ti, 316L, 321; DIN 1.4301, DIN 1.4404, DIN 1.4541, DIN 1.4571
- Special material available upon request

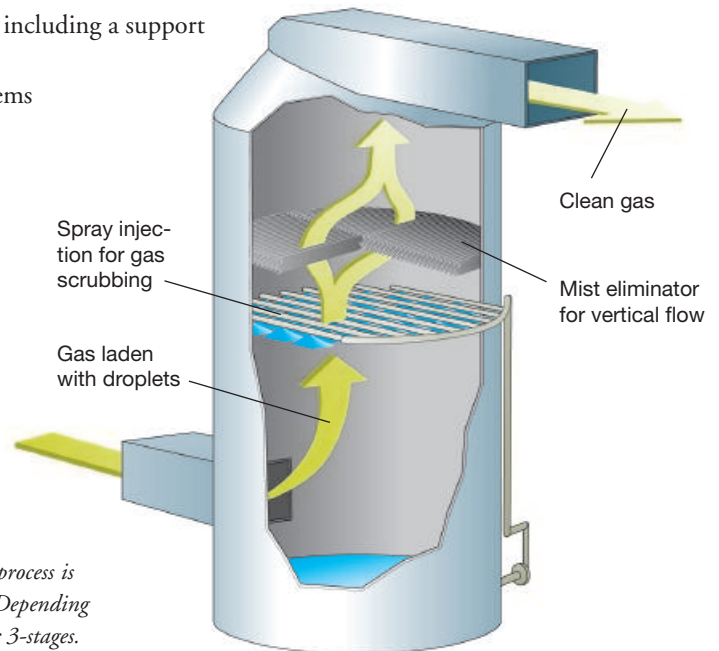


Scope of supply

The DV 270 is available in different configurations:

- Eliminator packs
- Framed pack for installation as internal
- Eliminator together with casing or pressure vessel
- Framed packs including a support structure
- Cleaning systems

Material certificates can be delivered for most materials upon request. Pressure loss, limit drop sizes and fractional efficiency curves for given operating data are delivered upon request.



Wet scrubber with mist eliminator. Liquid carry-over from the cleaning process is eliminated in the vane section of the scrubber and falls back by gravity. Depending on the required cleaning efficiency the mist eliminator can consist of 2 or 3-stages.



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