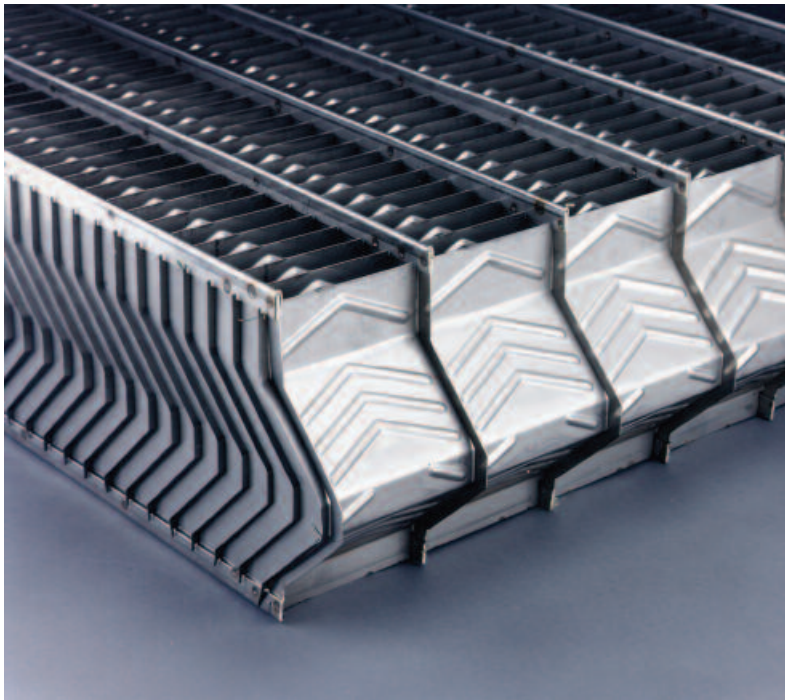


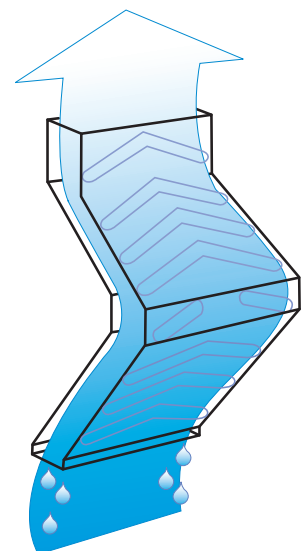
DV 270 (T 271)**DV 270****Droplet Separator (Mist Eliminator)**

- 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.

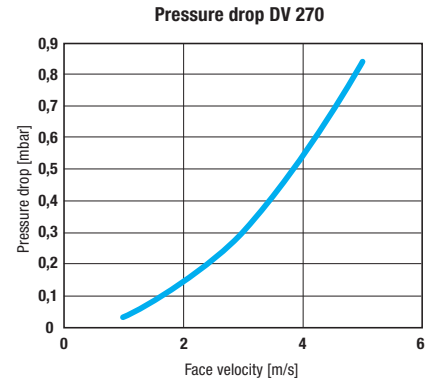
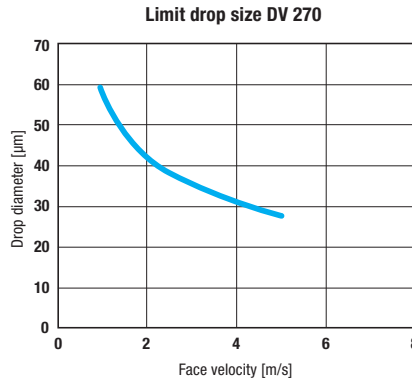
The limit drop size represents a performance characteristic of the profile. At the relevant velocity and operating conditions, it is the size of the smallest droplet that is completely separated.

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

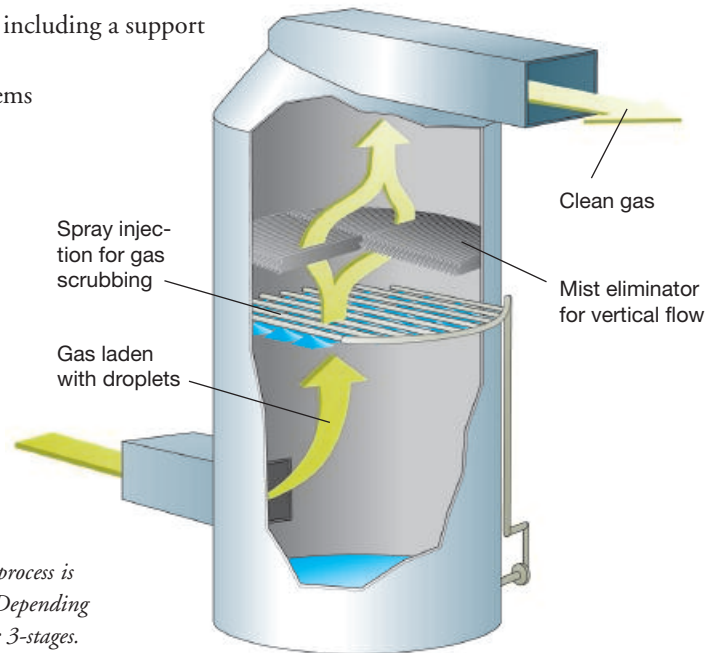


Scope of supply

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.



Munters, HumiCool Division, Kung Hans Väg 8, P.O. Box 434, SE-191 24 Sollentuna, Sweden. Phone +46 8 626 63 00, Fax +46 8 754 56 66.
 Munters Euroform GmbH, Aachen, Germany. Phone +49 241 89 00 0, Fax +49 241 89 00 5199, munters@muntersac.de
 Munters Corporation, Fort Myers, USA. Phone +1 239 936 1555, Fax +1 239 936 8858, moreinfo_me@americas.munters.com
www.munters.com

Australia Munters Pty Limited, Phone +61 2 6025 6422, Fax +61 2 6025 8266, **Austria** via sales organization in Germany, **Brazil** Munters Brasil Industria e Comercio Ltda, Phone +55 11 5054 0150, Fax +55 11 5054 0883, **China** Munters Air Treatment Equipment (Beijing) Co., Ltd., Phone +86 10 80 481 121, Fax +86 10 80 483 493, **Denmark** via sales organization in Sweden, **Finland** Munters Oy, Phone +358 9 83 86 030, Fax +358 9 83 86 0336, **France** Munters France S.A., Phone +33 1 34 11 57 50, Fax +33 1 34 11 57 51, **Germany** Munters Euroform GmbH, Phone +49 241 89 00 0, Fax +49 241 89 00 5199, **Indonesia** Munters, Phone +62 21 9105446-7, Fax +62 21 5310509, **Italy** Munters Italy S.p.A., Phone +39 0183-52 11, Fax +39 0183-521 333, **Japan** Munters K.K., Phone +81 3 5970 0021, Fax +81 3 5970 3197, **Kingdom of Saudi Arabia and Middle East** Hawa Munters, c/o Hawa United Cooling Syst. Co. Ltd., Phone +966 1 477 15 14, Fax +966 1 476 09 36, **Korea** Munters Korea Co., Ltd, Phone +82 2 761 8701, Fax +82 2 761 8777, **Mexico** Munters Mexico Phone +52 722 270 40 30, Fax +52 722 270 41 95, **Norway** via sales organization in Sweden, **South Africa and Sub-Sahara Countries** Munters (Pty) Ltd, Phone +27 11 997 2000, Fax +27 11 608 3501, **Russia** Munters Europe AB, Phone +7 812 4485740, Fax +7 812 5418660, **Spain** sales via Munters Euroform GmbH, Phone +34 93 688 1017, Fax +34 93 688 1655, **Sweden** Munters Europe AB, Phone +46 8 626 63 00, Fax +46 8 754 56 66, **Switzerland** via sales organization in Germany, **Thailand** Munters (Thailand) Co. Ltd., Phone +66 2 645 2708-12, Fax +66 2 645 2710, **United Kingdom** Munters Ltd, Phone +44 845 644 3980, Fax +44 845 644 3981, **USA** Munters Corporation **Fort Myers**, Phone +1 239 936 1555, Fax +1 239 936 8858, Munters Corp. **Mason**, Phone +1 888 335 0100, Fax +1 517 676 7078, **Export & Other countries** Munters, Phone +46 8 626 63 00, Fax +46 8 754 56 66.

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