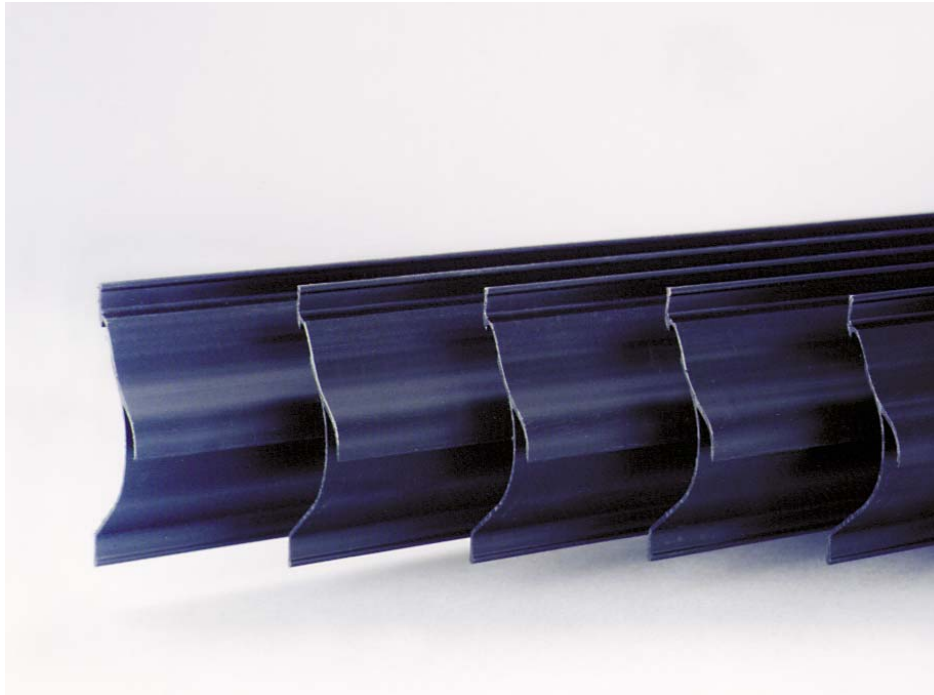


DH™ 2500 Droplet Separator Profile

DH™ 2500



DH™ 2500 droplet separator profile when assembled into units forms a vane type separator for horizontal flow. The streamlined profiles ensure low levels of pressure drop combined with high separation efficiencies.

The profile is available in various materials, the most popular being, talcum reinforced polypropylene, but also aluminium. It can therefore be utilised under different operating conditions.

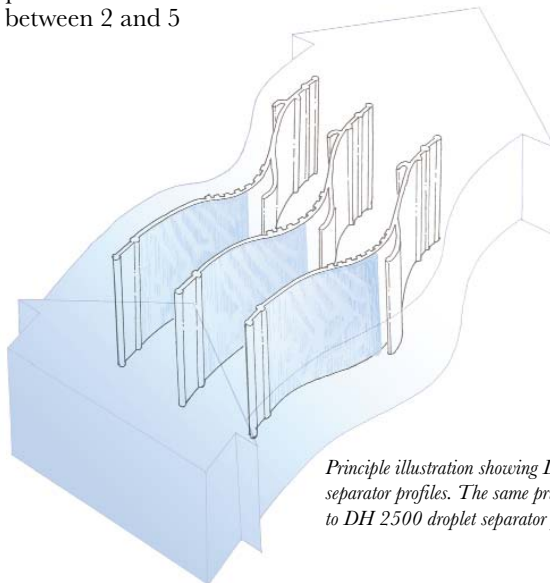
DH 2500 droplet separator profile can be supplied as standard 6 metre long profiles or in tailor made lengths that are shorter than 6 metres.

DH 2500 droplet separator profile is designed for use mainly after cooling coils and for air intakes. The profile is suitable for use at face velocities between 2 and 5 m/s.

Separation technology

The streamlined separator profiles deflect the droplet laden gas stream, as a result the momentum of the droplets causes them to impinge onto the profile surface. The droplets coalesce together and form a liquid film, the influence of gravity causes the liquid to drain to the bottom of the profiles. Specially shaped separation chambers improve performance by enhancing the separation of finer droplets and ensuring problem free discharge of liquid.

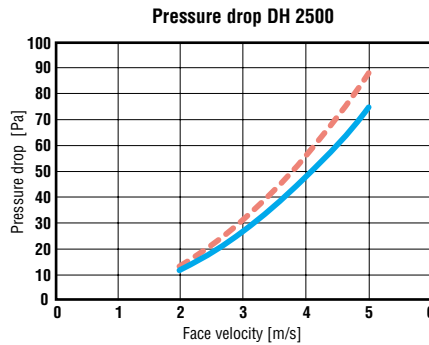
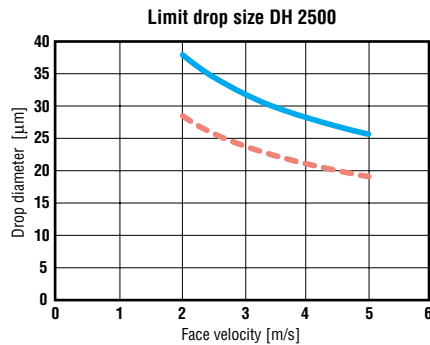
To avoid “flooding” of the profiles and the possibility of re-entrainment of the separated liquid, the height of the profile sections is normally limited to 2,500 mm.



Principle illustration showing DH 2100 droplet separator profiles. The same principle applies also to DH 2500 droplet separator profiles.

Equipment

- High separation efficiency
- Very low pressure drop, leading to lower operating costs
- Materials available for different operating conditions
- Low maintenance cost due to simple operating principle and long lifetime
- Wide face velocity range
- Tailor made lengths available
- Wide range of assembly profiles available
- In house ISO 9001 certified manufacturing
- Highest quality materials

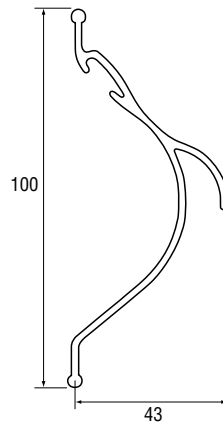


— 25 mm pitch/spacing between profiles
— 30 mm pitch/spacing between profiles

Performance

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 diagram showing limit drop size has been calculated for an air/water system at 20 °C and 1 bar.

The pressure drop is measured at ambient conditions (20 °C and 1 bar) through a number of assembled profiles at various pitches/spacing and under ideal conditions.



Technical specifications

Material code	Colour	Max. operating temperature °C	Weight kg/m	Thermal expansion coefficient 10 ⁶ ·K ⁻¹
PPTVb (standard)	black	80	0.37	150
PPTVw	white	80	0.33	150
Al*	—	—	0.83	24

PPTV = Talcum reinforced polypropylene

Al* = AlMgSi0.5

*Anodised or coloured material on request.

DH™ 2500 is developed and produced by Munters Euroform GmbH, Germany.

Order information

DH 2500-X-X-X
 Material code _____
 Length, mm _____
 Number of profiles _____
 e.g., DH 2500-PPTVb-800-25

If material is not specified PPTVb will be delivered!

The minimum length delivered is 200 mm and the maximum is 6,000 mm.

Ordered length tolerance ±2% at 20 °C.



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