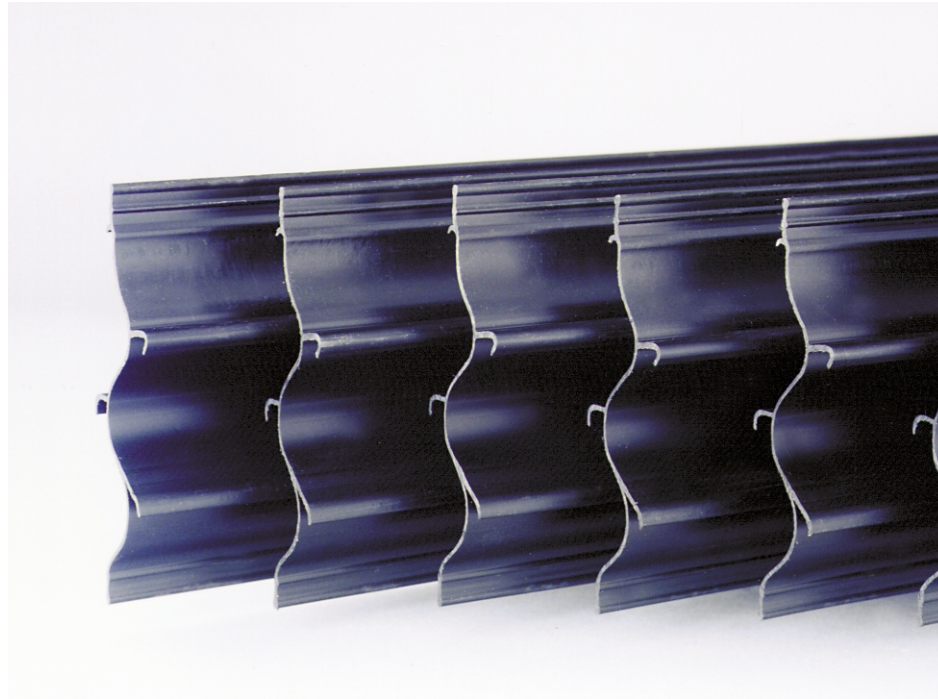


DH™ 4200 Droplet Separator Profile

DH™ 4200



DH™ 4200 droplet separator profile when assembled into units forms a vane type separator for horizontal flow. The streamlined profiles with multiple bends ensure high liquid loads combined with high separation efficiencies.

The profile is produced in talcum reinforced polypropylene. It can therefore be utilised in a wide range of processes under different operating conditions.

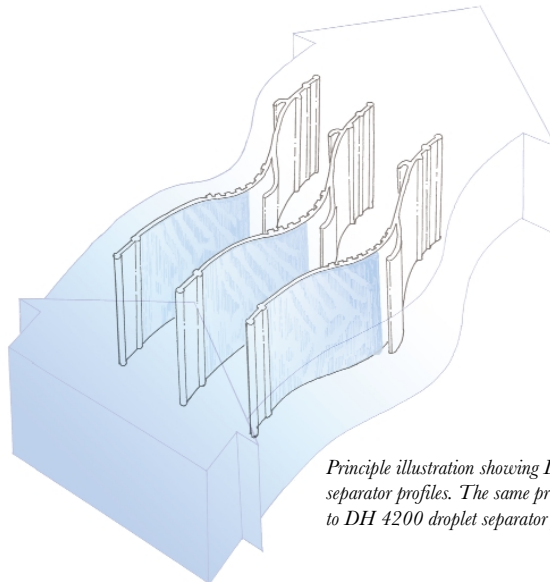
DH 4200 droplet separator profile can be supplied as standard 6 metre long profiles or in tailor made lengths that are shorter than 6 metres.

DH 4200 droplet separator profile is designed for use mainly after spray humidifiers and air intakes. The profile is suitable for use at face velocities between 1 and 4 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.

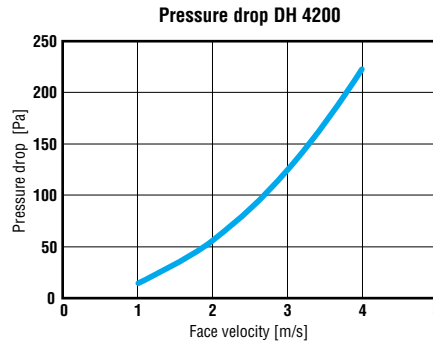
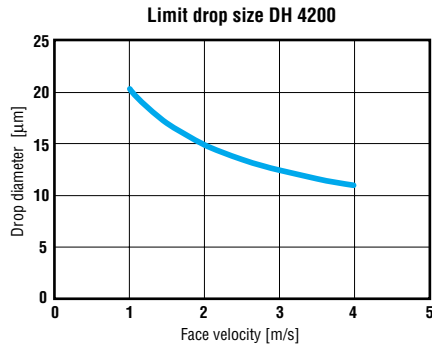
To avoid “flooding” of the profiles and the possibility of re-entrainment of the separated liquid, the height of the profile sections is normally limited to 2,500 mm.



Principle illustration showing DH 2100 droplet separator profiles. The same principle applies also to DH 4200 droplet separator profiles.

Equipment

- High separation efficiency
- Specifically designed for high liquid volume
- Corrosion resistant
- 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 material

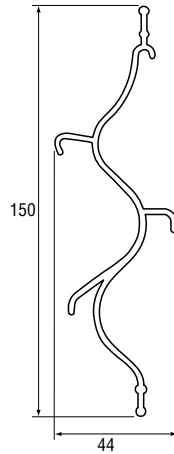


— 25 mm pitch/spacing between profiles

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	0.46	150
PPTVw	white	80	0.43	150

PPTV = Talcum reinforced polypropylene

DH™ 4200 is developed and produced by Munters Euroform GmbH, Germany.

Order information

DH 4200-X-X-X
 Material code _____
 Length, mm _____
 Number of profiles _____
 e.g., DH 4200-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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