John Cockerill
Europe Environnement

Air & Gas

Solution for vesicles in suspension

Droplet separator - **SGL** & Radial demister - **DR**

Operating on the principle of inertia, droplet separators and radial demisters can collect utp to 99,9% of droplets greater than 15µ.

Available in plastic material (PPh, HDPE, PVC) or stainless steel, these devices trap vesicles of chromium, soda, etc.

SGL

CHARACTERISTICS

The droplet separator stops the tiniest droplets (upt to 15µ) while limiting the pressure loss.

APPLICATIONS

Any industrial fields concerned by the liquid particule pollution, such as:

- Chemical and Petrochemical industries
- Paper work
- Surface treatment industries...

ASSEMBLY

- Liquid separation before the gas treatment
- Horizontal assembly

DR

CHARACTERISTICS

- Efficiency: 99% on vesicles > 40µ
- Horizontal or vertical assembly

APPLICATIONS

Any industrial fields concerned by the liquid particule pollution.

ASSEMBLY

- Final separation phase after the gas treatment
- Chimney
- Horizontal assembly before fan: possible

Construction from PPh, HDPE, PVC or stainless steel suitable for aggressive & corrosive compounds

Flows processed up to 100 000 m^3/h

Requires little maintenance due to simple and reliable operation

Several possible choices of sizes, materials, etc.

SGL

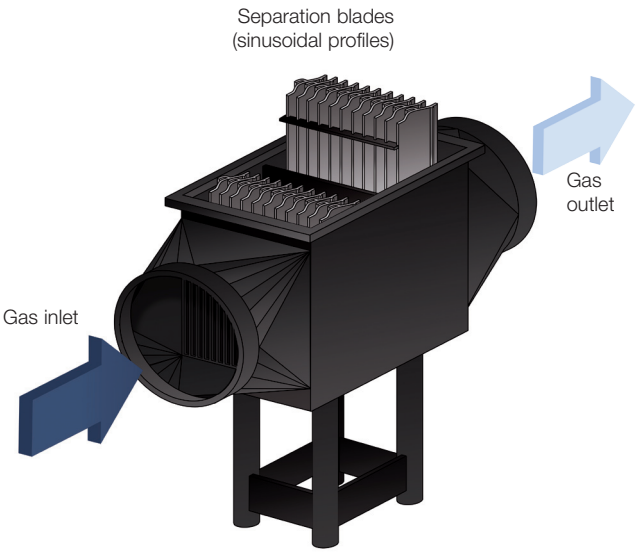
OPERATION

The gas steam loaded with vesicles is directed through a set of sinusoidal blades specially profiled for a maximum aerosol / gas separation efficiency.

Larger droplets are collected in separation chambers where they will agglomerate to form a liquid film.

Finer droplets are then thrown on the profiles thanks to centrifugation to be stopped by a second set of separating plates.

The liquid seal chamber is periodically purged by activating the total drain valve.

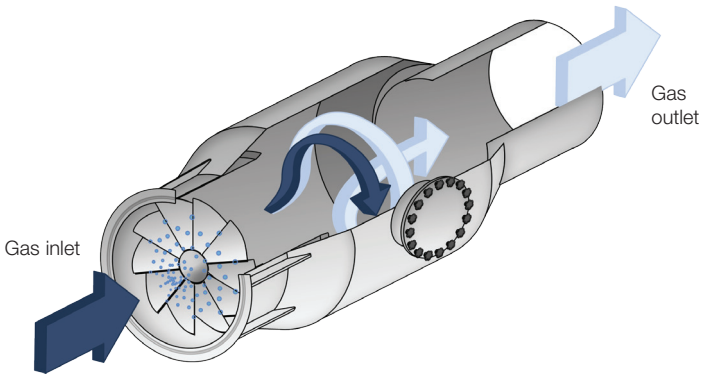


DR

OPERATION

After passing through the spin up blades, droplets are centrifuged into the wall and then directed to the separation chamber.

The separation liquid is removed thanks to a drained pipe.



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