

DH 2100 – FGD (T 100)

DH 2100-FGD Droplet Separator (Mist Eliminator)



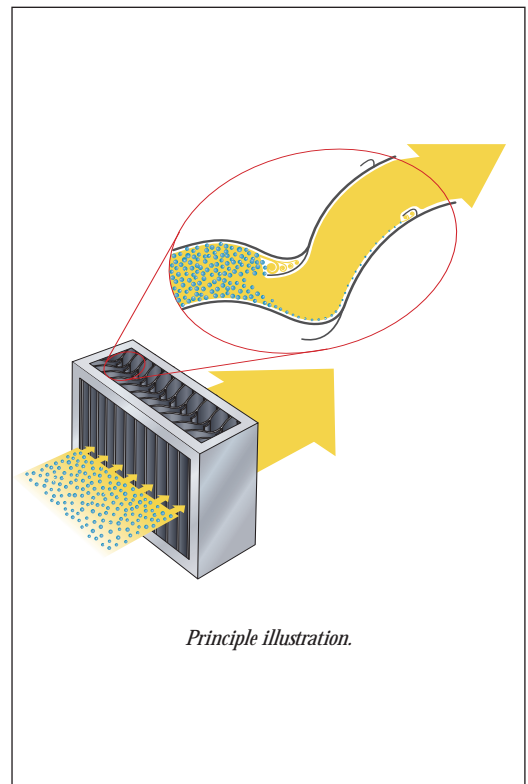
- Extremely low pressure loss
- Allows process designer to apply higher gas velocities in comparison to vertical gas flows
- High liquid removal capacity
- Highest efficiency standards achievable through multistage configurations
- Equipped with flushing / cleaning systems for plugging sensitive applications
- Panel design with integrated drainage systems
- Suitable for retrofit
- Available in polypropylene (also as talcum reinforced PP), PVDF. Special material available upon request

The DH 2100-FGD (T 100) is a vane type droplet separator for horizontal gas flow. The gas flow charged with liquid droplets is directed through eliminator vanes that are designed for turning the direction of the gas flow. As a result of this configuration, inertial forces act on the droplets. The droplets impinge onto the profile surface, where they form a liquid film that is subsequently drained off as a result of gravity. Specially shaped separating chambers ensure that the liquid is drained off in the correct manner while at the same time enhancing the separation of very fine droplets. The separator is typically used in a panel design in the horizontal duct section of FGD absorbers.

Target applications

The DH 2100-FGD (T 100) is typically used in gas cleaning devices with high liquid loading such as

- FGD absorbers (Flue Gas Desulphurization)
- Horizontal scrubbers
- Gas cleaning devices in waste incineration plants



Designs

1. Stand-alone

For smaller duct sizes the unit comes as stand-alone separator as shown in the photo.

2. Panel design

The DH 2100-FGD (T 100) panel system is installed into exhaust ducts with horizontal gas flows. The panel system is located directly behind the spray system of the absorber and its flushing system can be either on both up- and downstream sides of each stage or upstream of both stages and downstream of the coarse separator. This solution allows the process designer to

apply higher gas velocities in comparison to vertical gas flows. Separated liquids flow away from the direction of the gas flow via a drainage system and back to the washers.

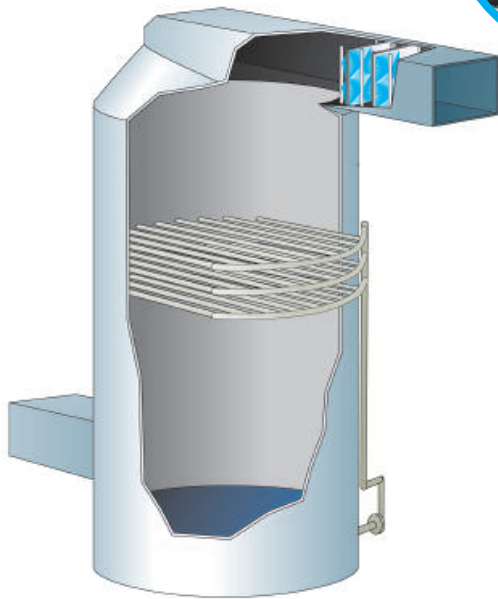
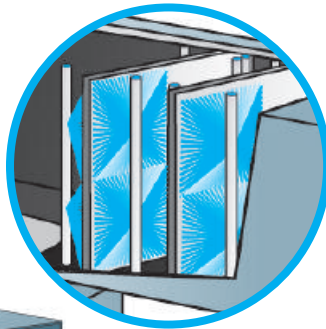
3. Multi stage configurations

Depending on gas velocity, composition and liquid loads, several stages become necessary. The multi stage configuration comprises 2 or 3 subsequent stages with either stand-alone or panel designs. For extreme small particle ranges, the system is equipped with an agglomerator.

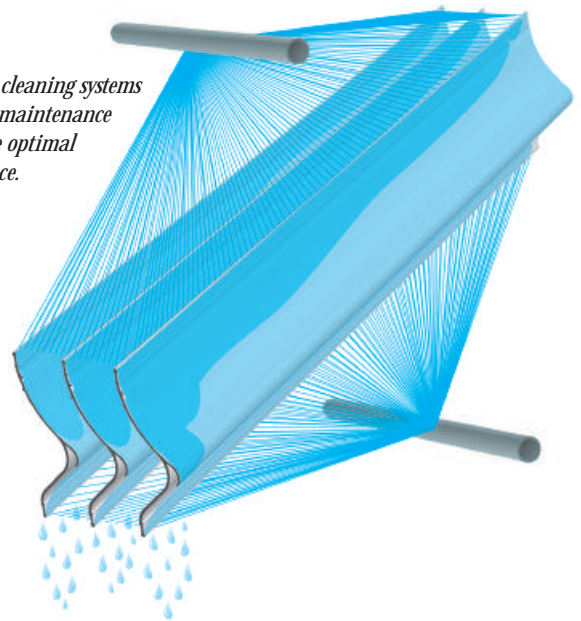
4. Cleaning and spray systems

To avoid plugging, each mist elimination system in a gas-cleaning device should have a properly designed cleaning system. The cleaning system comprises a multitude of pipes with fully integrated nozzles, installed close to the vane sections. This allows thorough cleaning on both sides of the vanes and side-to-side cleaning can also be incorporated. Cleaning cycles can also be automated.

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.



Integrated cleaning systems minimize maintenance and ensure optimal performance.



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