

MIST ELIMINATOR

MARINE AIR INTAKE SEPARATION SYSTEM



FlowGrill
DUTCH TECHNICAL SOLUTIONS

The FlowGrill full plastic Mist Eliminator is an Air Intake Separation System for marine applications.

Mainly applied at Engine & generator rooms, Fresh air intakes, etc.

- to eliminate (extremely high) incoming water loads.
- specially designed for high filtration capacities at low and high air speeds.
- to prevent incoming salt, sand, boat wash and other contaminants
- to prevent malfunctions of electronics / computers
- to prevent corrosion



In combination with the FlowGrill louvers and wire mesh filters, the overall configuration will be calculated with CFD, a computer simulation software program. This results in the best suitable airflow, pressure loss, low noise levels and minimum build in depth.

The Mist Eliminator can be ordered as an individual solution as well.

SPECIFICATIONS

Max. water load, depending on conditions such as airspeed, 250 grams water per kg air. Droplet separation efficiency, size of smallest droplets that can be separated $\pm 13 \mu\text{m}$ depending on operating air speed.

Width and height specified by customer. Standard units are rectangular. Different shapes are available on request. Installation depth is 149 mm. Practically no maintenance required

MATERIALS

- Full plastic
- Standard color is black and hardly noticeable behind the grill of an air intake.
- Operating air speed 1 – 6 m/sec.

PERFORMANCE

- Max. water load, depending on conditions such as airspeed, 250 grams water per kg air.
- Droplet separation efficiency, size of smallest droplets that can be separated $\pm 13 \mu\text{m}$ depending on operating air speed.

OPTIONS

- Flange positions and sizes to be specified by the customer. Standard 50 mm.
- Any drain positions can be integrated in the drain-tray (front, back, sides and bottom) Multiple connection types such as bushings, tubes, etc.
- Engineering Fluid Dynamics calculation (EFD)
- Installation on board
- Worldwide shipping
- Annual maintenance / inspection on site
- On site consulting (Refit)

