

GT2 Filter/Coalescer Panel

**ISO 16890 Filter Class
G4 Efficiency EN779:2012**

INTRODUCTION

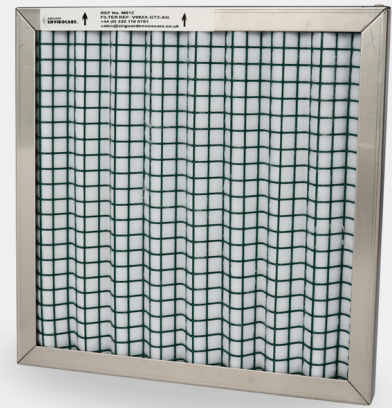
Versatile and effective, the Airguard Envirocare GT2 filter/ coalescer panel is designed to operate in the harshest conditions to protect turbines on offshore oil and gas platforms, in industrial operations, and for offshore wind turbines in power generation applications.

CONSTRUCTIONS

The Airguard Envirocare GT2 filter/coalescer is a panel consisting of a synthetic media sandwiched between wire mesh of plastic-coated galvanised steel. To increase the surface area and provide rigidity, this structure is corrugated and then retained in a stainless steel channel frame.

MAINTENANCE

The Airguard Envirocare GT2 is easily cleaned using low-pressure cold water. If necessary, greasy contaminants can be removed by washing with Parker Hannifin filter cleaning fluid and rinsing with fresh water. When cleaned correctly, the filter should be restored to original efficiency and pressure loss.



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TECHNICAL SPECIFICATION

The Airguard Envirocare GT2 is generally used as part of a 2- or 3-stage system. It offers good filtration efficiency with low pressure loss, even at high velocity. It also reduces salt ingress to well below engine manufacturers' recommended limits. Unlike other coalescer filters, the GT2 can be cleaned to remove salt and hydrocarbon contamination in environments where this occurs. In the 3-stage configuration this is known as SRS Technology.

KEY BENIFITS

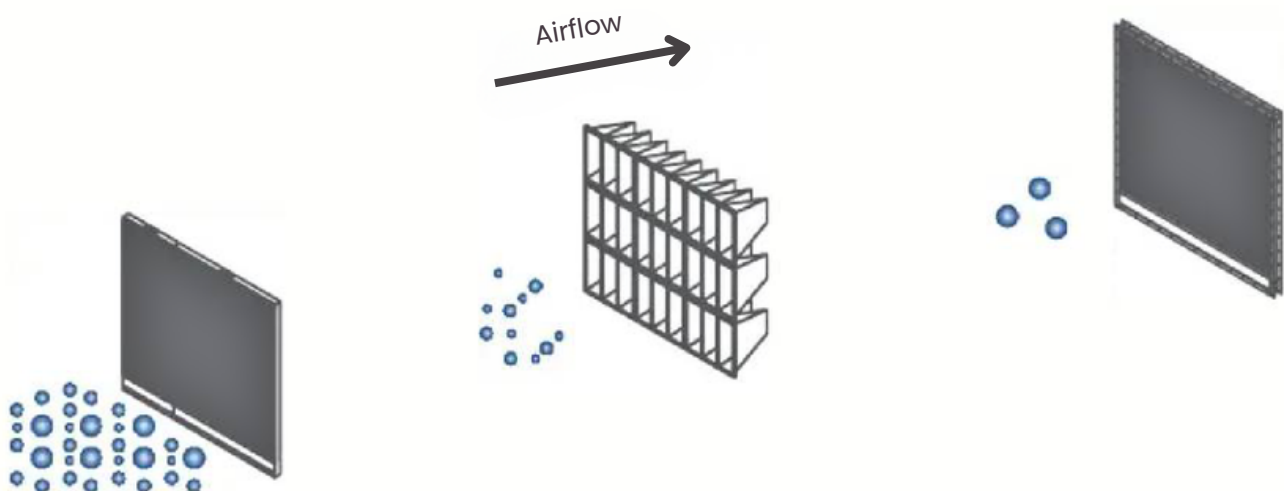
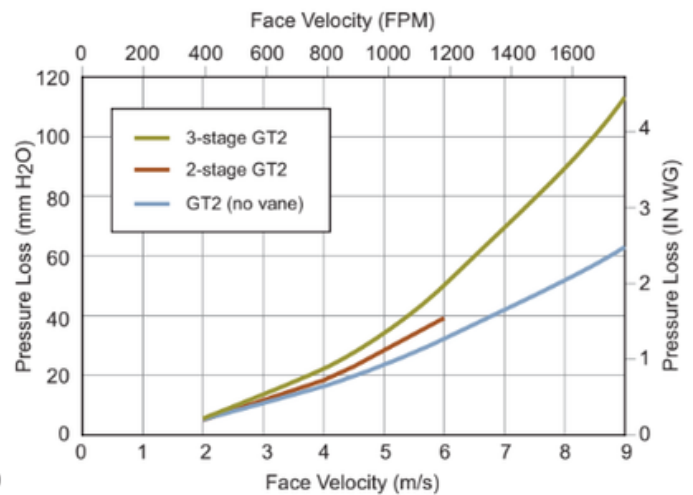
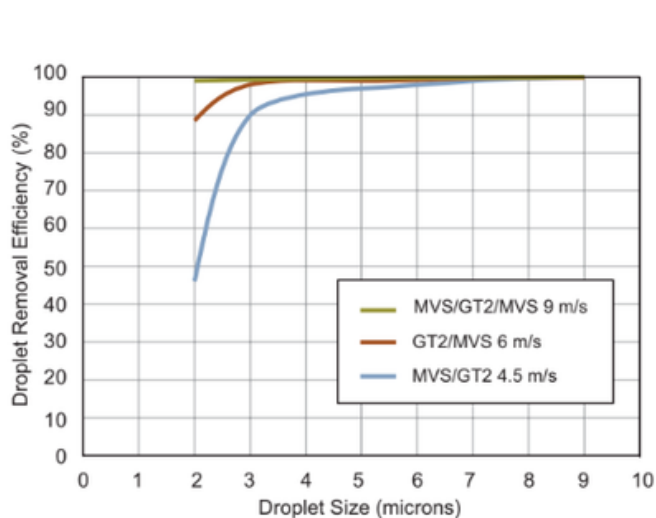
- Operational velocities up to 9 m/s (1771 FPM) – results in extremely compact air intakes
- Offers 80% gravimetric efficiency (arrestance) = G3 according to EN779:2002
- High efficiency against salt aerosol, when combined with SRS Technology system, helps reduce turbine blade corrosion
- Robust construction and fully cleanable design helps increase filter lifetime
- Low pressure loss normally leads to increased engine power output and/or improved fuel efficiency

TYPICAL APPLICATIONS

- Gas turbine package ventilation air
- Diesel or gas engine air intake
- Platform HVAC filtration
- Offshore wind turbine ventilation air

Performance Details

	3 m/s 590 FPM	6 m/s 181 FPM	9 m/s 1771 FPM
Salt removal efficiency when used in SRS Technology system	99.78%	99.95%	99.98



SALT REMOVAL SYSTEM – SOLUTION TO SALT-BASED CHALLENGES

The ingestion of Airguard Envirocare salt has long been proven to be a major contributing factor in both decreased turbine performance and reduced engine lifetime. Airguard Envirocare systems utilize Salt Removal System Technology process to protect the turbine from damage. This process, which is the result of nearly 50 years' experience in marine and offshore filtration, removes both solid and liquid contaminants in all weather conditions and at all levels of humidity. Removing the particulate from the system substantially reduces the possibility of salt leaching or becoming re-entrained in the air stream.

KEY BENEFITS

- Exceptional Salt removal performance minimizes turbine corrosion
- Increased engine power due to low inlet pressure loss
- Robust construction and shock-resistant design tested to military standards
- Range of filter and coalescer options to match your specific application
- Reduced maintenance time and lower costs with long-life filter designs

STAGE 1

Stage 1 is referred to as the bulk water removal stage. the majority of the liquid including rain, sea spray and coarse aerosols entering the inlet is removed and drained away using a vane separator.

STAGE 2

Stage 2 is the coalescence stage. Fine aerosols that have penetrated Stage 1 are coalesced to form larger droplets that can be easily removed by the third stage. Dust and other solid particulate are also removed. As all marine and offshore pre-filters and high efficiency filters in the range are optimized for coalescence as well as dust filtration, this dual function can be carried out without compromise.

STAGE 3

Stage 3 is typically a vane separator or similar, which removes any concentrated saline solution that has passed through stages 1 and 2. Not only is this entrained liquid captured, it is removed from the inlet by a monometrically-sealed drainage system.