

Description

Seaworth Three Stage Separators are designed to eliminate ingress of moisture, rain and sea spray into the intake air of gas turbines, large generator sets and engine rooms located on off-shore platforms, marine vessels and coastal areas. Three Stage Separators are effective in the most arduous environments, providing superior protection from corrosion caused by salt.

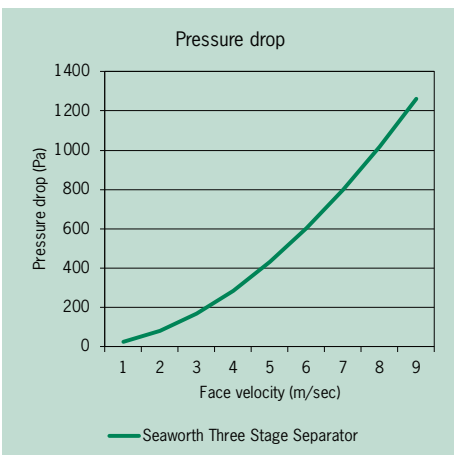
The most common Three Stage Separator configuration is:

- Separator/Filter/Separator – suitable for velocities up to 7.0 m/sec

Separator Stage Construction

Robustly constructed from lightweight, marine grade anodized aluminum, the vane separator works by drawing air through a series of specially designed vanes which trap moisture. The trapped moisture then drains vertically down the channels and finally out the front drainage slot or into a manometric drain trap.

© Camfil New Zealand / New Zealand Product Data Sheets / 27-04-18-0250
As part of our continuous improvement, Camfil reserve the right to change specifications without notice.



Performance	
Water handling capacity (per metre width)	240 L/min
Maximum face velocity	6.5 m/sec
VTT Expert Services tested at 5.0 m/sec	Class A (100%)
Efficiency against NGTE 30 knot aerosol (GT2 or PB1 filter)	0.01 ppm
Efficiency against NGTE 30 knot aerosol (HV2 or HE10 filter)	0.0013 ppm



Filter Stage Construction

GT2 filters are designed to reduce airborne salt and dust contaminants. GT2 filters are manufactured from durable synthetic media sandwiched between welded wire mesh – making them fully washable. To increase the surface area and provide rigidity, the structure is corrugated and retained in a 316 stainless steel channel frame.

The following filters are also appropriate for use in the filter stage of the Seaworth Three Stage Separator:

- HE10
- PB1
- HV2
- PB1 and HV2 combined

Optional Fourth Stage

For turbine intakes and applications where an air quality rating above F5 is required, an F8 rated compact filter can be added to the Seaworth Three Stage Separator. For satisfactory operation of the four-stage system, the first three stages should operate at a medium velocity of between 3.5 m/sec and 4.0 m/sec. The fourth and final stage should operate at approximately 2.5 – 2.8 m/sec offering a salt efficiency of 0.01 ppm and an atmospheric rating of F8.

© Camfil New Zealand / New Zealand Product Data Sheets / 27-04-18-0250
As part of our continuous improvement, Camfil reserve the right to change specifications without notice.

