

# Three Stage System (VCV) - Compact



Peerless Europe

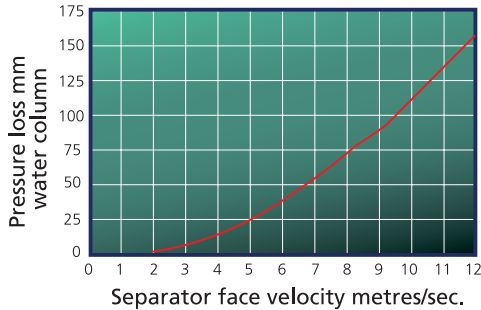


Photo courtesy of Ian Cowley

Our three stage system serves the world's naval forces and marine operators protecting gas turbines and high speed diesel engines used in marine propulsion systems and auxiliary equipment by removing all levels of harmful salt moisture entrainments.

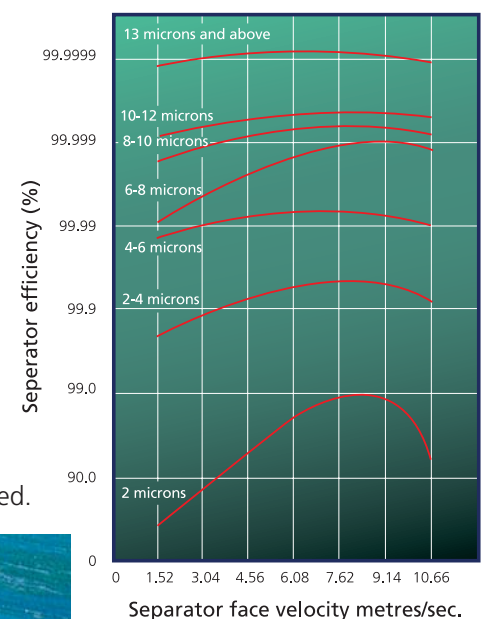
- Inertial separation vanes are integrated with a coalescing device to achieve extremely high moisture separation efficiencies against all sea generated entrainments – from solid wave tops to salt-laden marine aerosols just a few microns in diameter.

PEERLESS COMPACT – THREE STAGE pressure loss as a function of air velocity

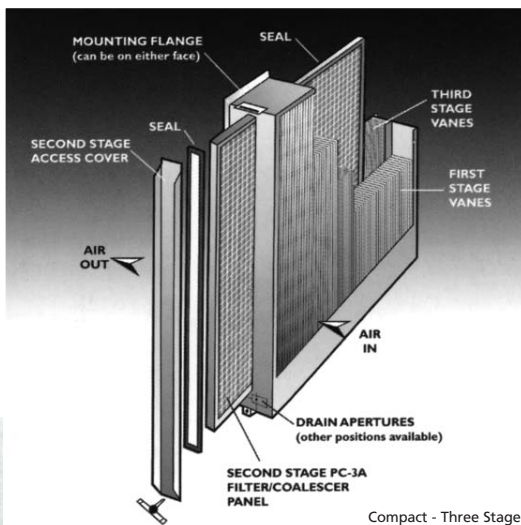


- Customised variations are available to meet special circumstances:
  - ▶ Where extreme weight saving is required.
  - ▶ Where significant particulate entrainments are anticipated in sea areas bounded by deserts or similar terrain.
- Peerless pay particular attention to clients' overall intake designs and offer:
  - ▶ Advanced three dimensional CFD analysis.
  - ▶ Recommendations for efficient installation.

PEERLESS COMPACT – THREE STAGE separating efficiency for various droplet size ranges as a function of air velocity



- Peerless technology ensures the naval shock load requirements are met but it remains light in construction.
- A low pressure drop through the separator ensures maximum power ratings.
- The salt-in-air level entering the engine from the Compact unit is no more than 0.01 ppm (w)
- Suitable for a wide range of marine applications and is in operation in all sea states.
- The system requires virtually no day to day attention and is easy to maintain, only involving coalescer change-out or cleaning. No special tools are required.



Compact - Three Stage

making energy safe, efficient and clean