

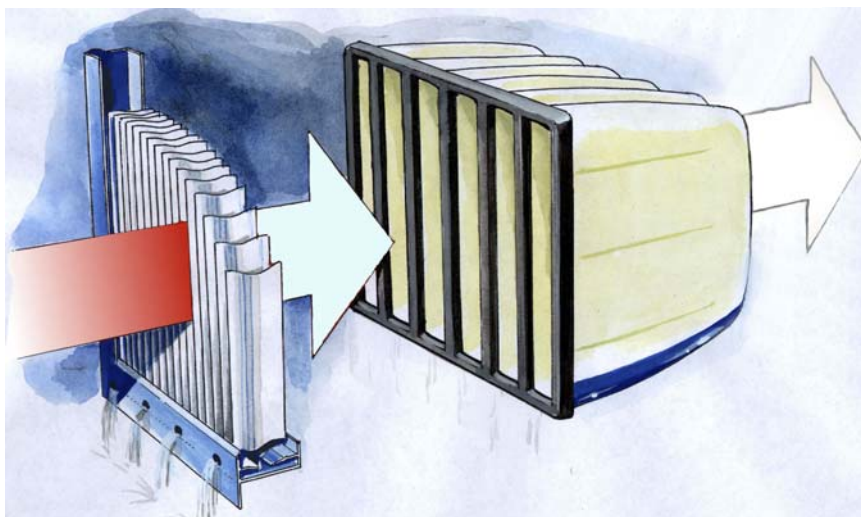
Wide Infinidry: 2-stage Air Intake System

This ultra-compact Air Intake System in a 2 stage configuration is a marked advancement in Air Intake technology. Combining the high-efficiency Wide ME moisture separator with the newly developed and patented Filtrair PTL-DS “Drop-Safe” pocket filter represent a totally re-engineered Marine Air Intake design-philosophy: The Wide IFD (InFiniDry)

The forward-draining, non-reentrainment pocket filter provide highest quality air filtration and water separation in the same stage.

Consequently, the Wide Infinidry 2-stage system outperforms traditional 3 and 4-stage systems on all accounts:

- **Dramatically reduced pressure drop.**
- **No water or salt re-entrainment**
- **Eliminating salt deposit build-up downstream of filter bag**
- **Reduced maintenance cost.**
- **Reduced installation cost.**
- **More compact filter house.**



FIRST STAGE: Moisture separation and coarse filtration.

First stage replaces traditional Louvre/Hood and Pre-Filter with a single stage high efficiency Wide ME moisture separator.

A first stage separator is usually kept very clean by occasional rough weather, requiring minimal additional maintenance.

Coarse dust and soot particles are also separated and then flushed out along with the water.

SECOND STAGE: Fine filtration, coalescing and drainage.

Traditionally, a Marine Filter also served as a coalescer, and the coalesced droplets were separated with another downstream mist separator.

Now, with the patented Filtrair PTL-DS, the very fine droplets entering the filter is not only coalesced, but also accumulated and drained into the water-sealed bottom of the pocket filter. From there the water is drained forward, and never enter the clean side. This completely eliminates the problem of saturated droplets entering the clean side and potentially contaminating clean-side air with salt and other water soluble contaminants.

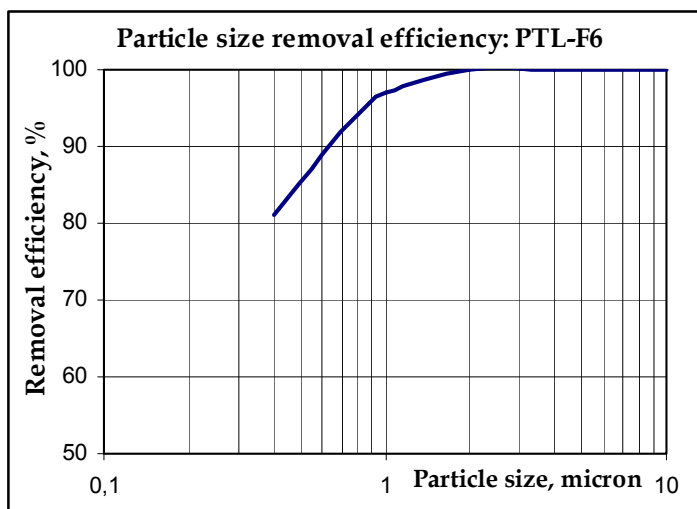
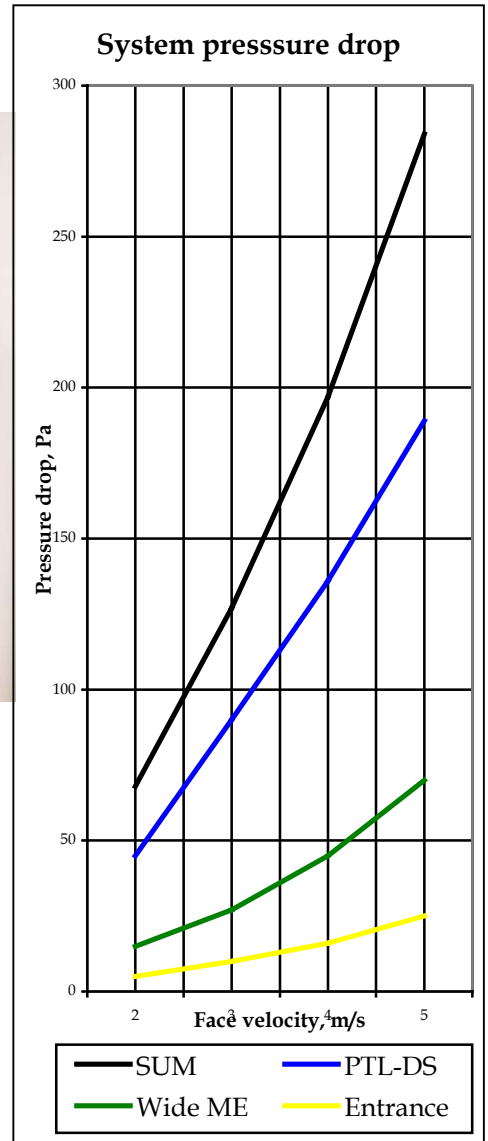
Technical Data



Comprehensive performance data for system components are available from A.S. Wide.



Photo: Four-bag front hinged Wide Infinidry. The Wide Infinidry 2-stage Air Intake System is easily scalable from a single filter unit to large multi-bank systems for hundreds of filter bags.



System pressure drop.
Chart is based on uniform face velocity. Actual face velocity should be calculated for each design to determine correct pressure drop for each stage.