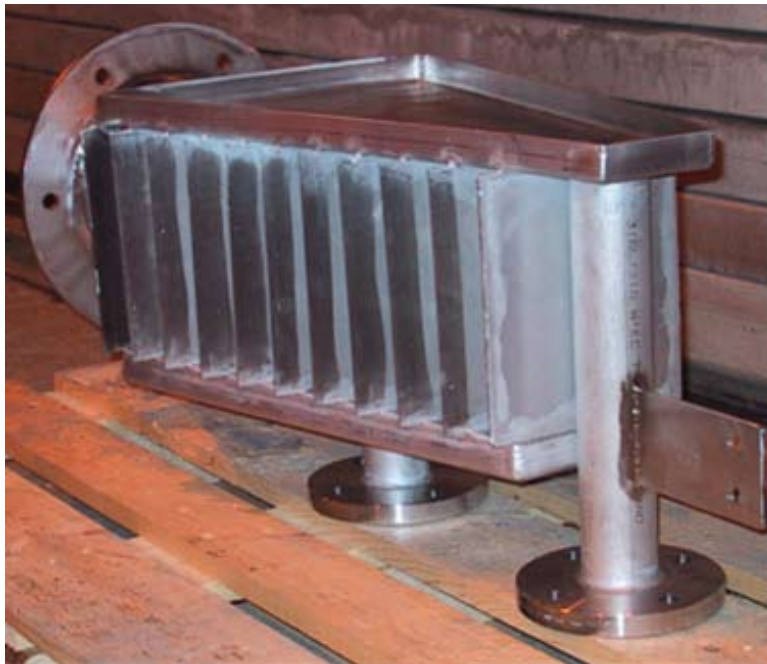


## **Innovative INLET VANE DISTRIBUTOR Improves Separator Performance While Reducing Operational Pitfalls**



ProSep offers the next generation of advanced inlet devices. The inlet vane distributor expands the flow area from the inlet pipeline into the vessel. This reduces the inlet momentum and improves optimal utilization of the available vessel volume. The distributor also features (1) profiled vanes which ensure an efficient retardation of incoming velocity, (2) separating vanes that knock out the bulk liquid before the incoming flow is introduced into the vessel, and (3) a device drainage system that eliminates the potential re-entrainment of separated liquids.

More specifically, profiled vanes improve flow distribution and avoid the pitfalls of plate-type vanes, such as rapid

velocity changes, unstable flow, and poor utilization of the available vessel area. Instead, they provide uniform, controlled expansion of flow area and have no tendency for poor distribution.

With the profiled vane, one can achieve a 50% increase of scrubber gas capacity without loss of performance.

Also available are demisting flow cyclones with no turndown with respect to performance, the swirl inlet that allows a compact gas scrubber configuration, and the inlet cyclone distributor with its double perforated plate as opposed to a momentum breaker plate.

### **REFERENCES**

Available upon request.

### **FOR MORE INFORMATION**

Contact your nearest ProSep Inc., office.

[www.prosepinc.com](http://www.prosepinc.com)