Through the principles of impaction and interception, the free-water droplets in the gas stream encounter the leading edges of the vanes. As the gas stream abruptly changes direction several times through the vanes, the entrained dust and mist continue in a straight line impacting on the vanes. Also, dust and mist intercept one another in the gas stream, growing larger and facilitating the impaction process. The particulate-laden liquid flows down the vanes assisted by the intermittent or continuous wash-down into the drain trough. The vanes produce a droplet-free air on the back end of the system.

MIST REMOVAL SYSTEMS
CHEVRON VANES

Chevron vanes use a 3-pass design to remove water droplets and particulate from a gas stream. The 3-pass chevron system is normally used where heavy particulate loading and standard gas stream velocities are found. The addition of an engineered wash-down system assists in the removal of particulate from the vanes and inhibits build-up of material on the vanes.

MIST REMOVAL SYSTEMS
Half-Wave™ vanes are proprietary high-performance demisters incorporating engineered drain channels and troughs. These specially-designed vertical elements allow the Half-Wave™ vanes to de-mist a gas stream at much higher velocities than standard vane configurations without re-entraining droplets in the gas stream. A properly designed wash-down system assists in the removal of particulate from the vanes and inhibits material build-up on the vanes.
VANE APPLICATIONS

- Retrofit of existing or installation of new Wet Scrubber systems
- Retrofit of existing or installation of new Cooling Towers
- Retrofit of existing or installation of new Evaporators
- Retrofit of existing or installation of new Distillation or Absorption columns
- Stand-alone Process Mist Removal

MATERIALS OF CONSTRUCTION

- Chevron vanes are available in Stainless Steel, Hastelloy, Monel, Inconel, and polypropylene.
- Half-Wave™ vanes are available in polypropylene and high-performance Ultem®.
- Depending on the specific design considerations, other materials of construction can be supplied for both styles of vane.

ENGINEERING SERVICES AVAILABLE

Jardar Systems, Inc. designs, engineers, and supplies complete solutions to meet your strictest air pollution control requirements. Equipment is designed using the latest in process and mechanical engineering technology and software. Through our affiliations with foreign companies, engineering and equipment can be supplied the world over.

REPRESENTED BY:

JARDAR SYSTEMS, INC.
AIR POLLUTION CONTROL SPECIALISTS
3266 RFD Middlesax Drive
Long Grove, IL 60047
P:847-550-1686
F:847-550-1992
email:sales@jardarsystems.com
website:www.jardarsystems.com

MIST REMOVAL SYSTEMS