

# AmerVane VI

*High Velocity  
Weather Louver*



## REMOVES MOISTURE

The AmerVane VI high velocity weather louver, designed and patented\* by AAF, is a heavy-duty, high efficiency, moisture eliminator. Ultra-low operating pressure drop makes the AmerVane VI a truly cost-effective, first-stage separator to any intake filter system. It provides excellent free moisture removal at velocities up to 1,000 FPM.

## APPLICATIONS

The AmerVane VI is ideal for use in engine and compressor applications that require highly efficient moisture removal, with a minimum pressure loss.

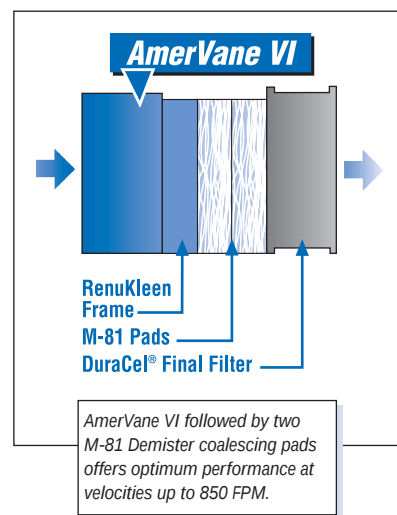
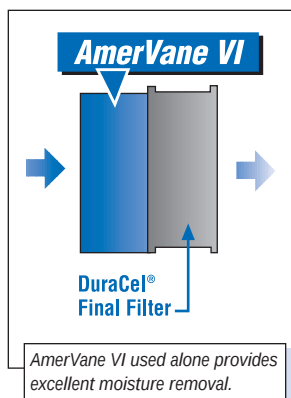
- ✓ **Offshore platforms**
- ✓ **Coastal areas**
- ✓ **Plant sites located in climates of heavy rain, frequent heavy fog, mist**
- ✓ **Behind evaporative coolers and cooling coils**

\*U.S. Patent No. 4,557,740

## WORLD CLASS QUALITY

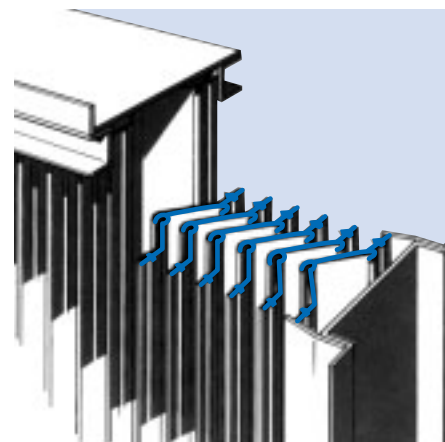
Our facilities are specifically designed to manufacture and test air filtration and acoustic products. During the entire production process, our operations are governed by our ISO 9001 certified system.

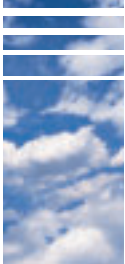
## THE AMERVANE VI CAN BE USED IN TWO CONFIGURATIONS WITH INCREASING DEGREES OF EFFICIENCY.



## CONSTRUCTION

The weather louver vanes are constructed using an aerodynamic "s-hook" shape. This configuration imposes several directional changes on the incoming air, causing separation of moisture from the airstream. The vanes can be hinged, for access to filters, or remain stationary.





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## PERFORMANCE

### ■ Test Conditions

A 10' high by 4' wide louver section was tested up to 914' per minute using two methods:

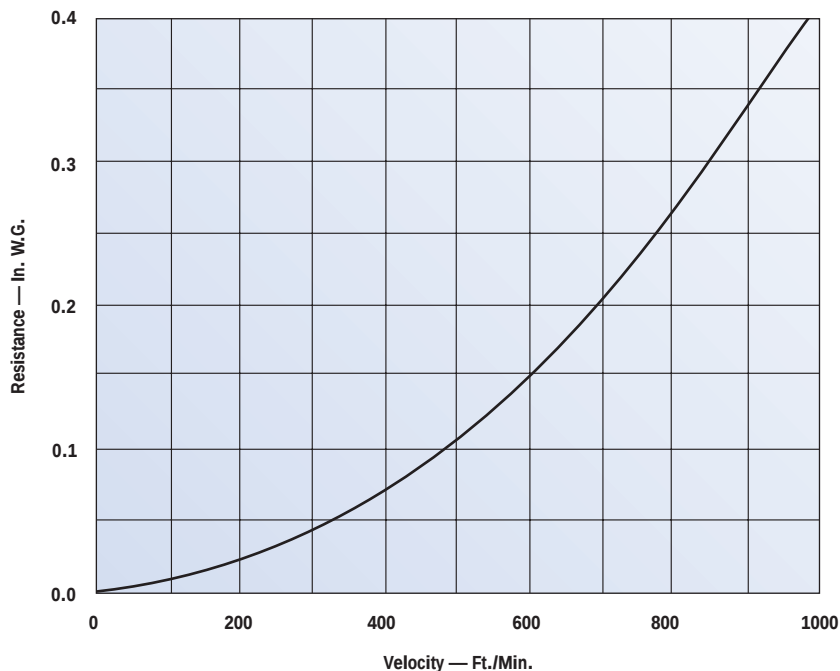
- 1) Water was sprayed at the entire front of the louver at the rate of 13.6" per hour.
- 2) Water was sprayed through a garden hose at isolated spots on the face of the louver at the rate of 2.4 GPM.

### ■ Test Results

At 1¼" spacing between vanes, no sensible moisture was conveyed through the test louver during either test.

The 13.6" per hour test was conducted for 6 hours at 914' per minute with no water passing through to the downstream plenum.

These tests demonstrated satisfactory water elimination from the airstream and satisfactory drainage of the water from the louver at the 10' height.



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