



# WINSTON / ROYAL GUARD CORPORATION

## *Type 100V Vertical VANE Scrubber*

The Type 100V Vertical Vane Scrubber efficiently removes liquid slugs and separates mist and entrained liquid particles from a natural gas or process gas stream. With the offset nozzle design and vane internal, liquid particles 8-10 micron and larger will be removed, providing clean dry gas to protect compressors and other equipment. The vertical design also offers a smaller footprint for applications where space is limited, such as on offshore platforms.



**How it works:** As gas enters the scrubber, liquid slugs fall to the bottom of the vessel while the gas flows upward toward the vane separator internal. Mist and entrained liquid particles are then separated from the gas due to changes in flow direction as the gas passes through the tortuous path of the corrugated vane plates. Gas flowing through the vane is able to follow the changes in direction, however, inertial impaction causes liquid particles to separate as they are heavier and cannot change direction with the gas. Impinging upon the vane surfaces, liquid particles become enlarged through coalescence as they travel along these surfaces and finally fall toward the drain. Clean, dry gas exits through the outlet.

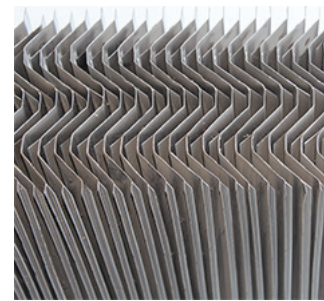
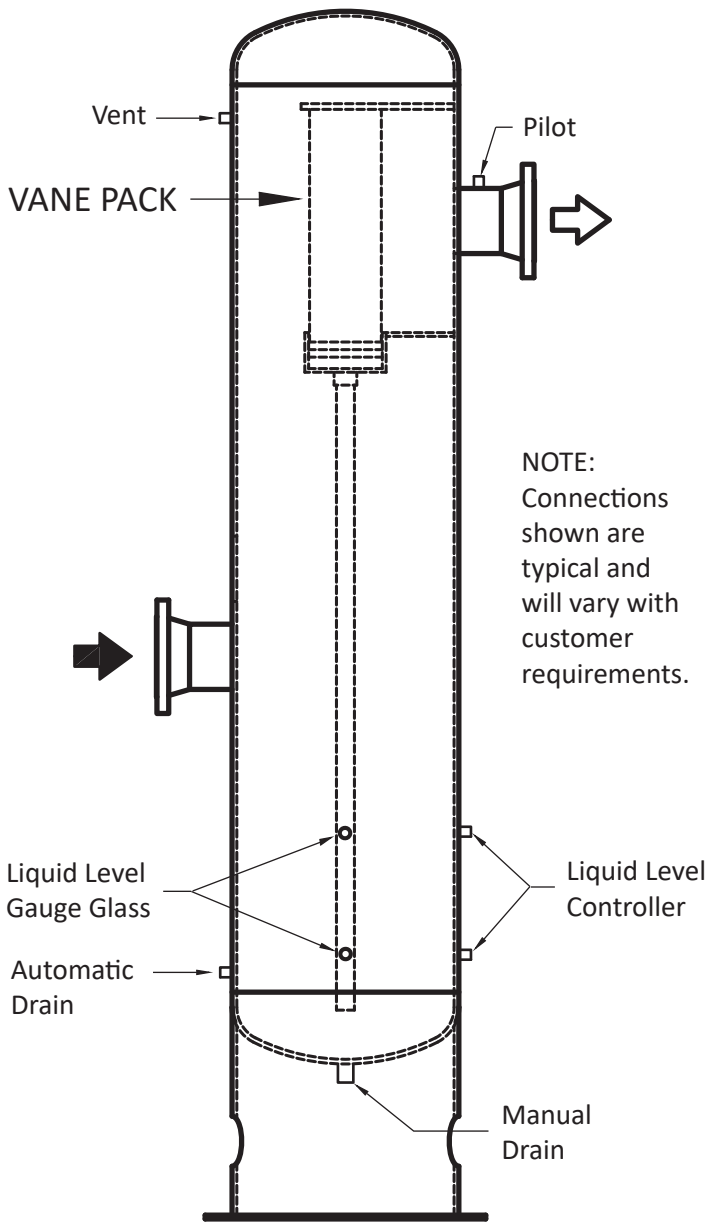
### **Benefits:**

- Removes 99.9% of liquid particles 8-10 micron size and larger from a gas stream.
- Effective operation over wide range of flow.
- Vertical design offers a smaller footprint for limited space applications.
- 316 Stainless Steel is our standard material of construction for the vane internal, providing optimum lifetime.
- Small non-sticky contaminants suspended in the liquids will also be removed.

**ASME Code Certified:** Winston/Royal Guard is an ASME Section VIII, Division 1 Code certified manufacturing facility with National Board certification. Capabilities include all types of non-destructive testing with a rigidly controlled Quality Control system.



# Type 100V Vertical VANE Scrubber



Typical Vane section

Specifications are subject to change without notice. 8-26-2017

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