

Ν	Ialeic Anhydride Scrubbing Application
Application:	Specialty Chemical and Petrochemical Industries / Maleic Anhydride Scrubbing Application
S&K Product:	Special Ejector-Venturi Scrubber Fig. 7010
Description:	Processes for making one of the raw materials (maleic anhydride) used in resin production generates contaminated off-gases. Maleic Anhydride is absorbed fairly readily in water producing Maleic Acid. However, maleic anhydride transforms directly from gaseous to solid state when cooled and, as a result, can easily plate out on scrubber internal surfaces building up and causing plugging. In order to minimize this "maintenance headache" a special ejector-venturi design is utilized.
	The gas inlet and liquid inlet orientations are reversed such that the gas inlet is from the top and the liquid inlet from the side. This allows for the installation of tangential wash sprays just below the gas inlet to wash the walls and keep them wetted. As a result the dry/wet interface is eliminated in the body section where most plugging typically occurs.
	Other applications utilizing same special design:
	 Removal of chlorinated silanes, which tend to form "sticky" gels during scrubbing Removal of elemental sulfur from sulfur holding tank vent exhausts
Performance Data:	50 – 10,000 ACFM gas rates, 90+% removal efficiency ejector-venturi per stage
Industries Used:	Specialty Chemical, Petrochemical, and Electronics Industries

