



SPECIALTY ENVIRONMENTAL CHEMICALS AND EQUIPMENT

FRPT-30 Vapor Scrubber System

DESCRIPTION:

The **FRPT-30** is an FRP (fiberglass) wet scrubber system designed for corrosive applications. This unit is skid-mounted and contains both an air-operated pump and an electric magnetic-drive pump. Having both types of pumps make this unit extremely versatile and offers a degree of redundancy. This unit is designed for corrosive vapor applications or where the chemical counteractant being used is corrosive. A few examples would be **HCL, HF acid, sulfuric acid, chlorine, hydrogen sulfide, ammonia, amines, and many more.** The FRPT-30 system is rated up to 1650 CFM, making it ideal for moderate tank cleaning and process applications. This system has a large 550 gallon reservoir which allows for extended running times.

The system is fairly simple. Vapors enter through the 6" flanged inlet (adapters available) and immediately are routed through the first tower which has approximately 5 feet of high-flow, high-efficiency poly packing media. The vapors then are re-routed back down to the next tower and experience another 3-4 feet of packing media. Both towers are showered with chemical media supplied by one of the available pumps (air or electric). The last tower has a full diameter mist-eliminator which helps remove liquid particulate. Vapors leave the unit via the 6" flanged outlet 99% free of original contaminants (in most cases).

The **FRPT-30** is NOT designed for hydrocarbons (organics/solvents) or products which are heated. Maximum temperature for this unit is 130F. Due to the fact that this unit is made of poly materials, it is not designed for much pressure or vacuum. It is designed for atmospheric applications where free-venting is possible.

APPLICATIONS

HAZARDOUS/ODOROUS VAPOR	POSSIBLE REMOVAL EFFICIENCIES
Chlorine	99%
Acids	99.9%
Amines	99%
Ammonia	99%
Phenol	99%
Hydrogen Sulfide	99%
Wastewater Odors	99%
Oxidizers	99%

Contact Vapor Tech for Other Applications

SCRUBBING CHEMICALS:

For corrosive applications Vapor Tech manufactures many different types of chemicals to achieve high removal efficiencies. For hydrogen sulfide, Vapor Tech's Enviro-Scrub VT only requires a 6% solution to achieve 99% H₂S removal. For more common vapors such as acid vapor streams, a light caustic solution will achieve excellent removal. For complex vapor streams please contact Vapor Tech at (409) 316-0173 or visit our website at www.vapor-tech.com.



OPERATIONAL PARAMETERS:

Maximum Flow Rate (CFM)	1650
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Maximum Pressure (PSI)	1.5
Maximum Temperature (°F)	130°F
Pressure Drop Across System (@ 500 CFM)	Approximately 3" of water
Maximum Vacuum (Inches of Hg)	1.5"

SCRUBBER SPECIFICATIONS:

Overall Unit Footprint (Skid Size)	5'W x 14'L
Available for Trailer-Mount?	Yes
Empty Weight (Pounds)	2500
Vapor Inlet (Inch & Type)	6" 150# Flange
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Number of Towers	2
Tower Diameter (Inches)	30"
Packing Height (Feet)	4' for First Tower; 2-3' for Second Tower
Reservoir Capacity (Gallons)	550
Re-Circulation Pump Type	1.5" Air Diaphragm & Magnetic Drive (230/460)
Number of Pumps	2
Utility Required for Pumps	Compressed Air or Nitrogen / 230/460V 3 Phase Power
Pump Air Consumption (SCFM)	70
Available Blowers	Many Options Available
Unit Equipped with Mist Eliminator?	Yes
Internal Distributors and Media (Scrubber & Radials)	Stainless Steel



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