

PPS-24 Vapor Scrubber System



Skid Mounted Emission Control System

www.vapor-tech.com

Visit our website for a comprehensive listing of our products and technical information



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PPS-24 Vapor Scrubber System

Vapor Tech offers an all-poly light industrial vapor control system designed for a variety of corrosive vapors. This unit is a single column packed bed which is manufactured of 100% poly materials. The poly construction makes it ideal for a host of vapors including acids, bases, ammonia, chlorine, etc.

The unit has a large 450 gallon solution reservoir made from high density polypropylene. A 24" PVC tower connects to the reservoir and provides over 7' of packing height.

The PPS-24 system is skid mounted and comes equipped with both an electric (460V) magnetic-drive pump and a 1" air diaphragm pump. This enables usage in almost any situation and provides a backup in case of main pump failure.

In cases where additional polishing of the vapors are needed, one of Vapor Tech's carbon beds could be used on the exhaust of the scrubber to increase efficiency to 99.9%.



Applications

Below is a sample list of applications and an estimated removal efficiency using the PPS-24 system (some with carbon polish)

HAZARDOUS VAPOR / VOC NEEDING REMOVAL	POSSIBLE REMOVAL EFFICIENCIES
Chlorine	99%
Acids	99.9%
Amines	99%
Acrylates	99%
Mercaptans	99%
Hydrogen Sulfide	99.9%
Wastewater Odors	99%
Ammonia	99%
Contact Vapor Tech for other applications...	

Scrubbing Chemicals

Vapor Tech manufactures a complete line of specialty chemicals designed to maximize scrubber performance and removal efficiency. Some vapors, like common acids, do not require specialty chemicals. Call Vapor Tech and we will recommend the proper chemical media needed for your application.



PPS-24 Specifications

Operational Parameters

Maximum Flow Rate (CFM)	1250
Minimum Flow Rate (CFM)	50
Maximum Pressure (PSI)	1
Maximum Temperature (°F)	140
Pressure Drop Across System (@ 500 CFM)	Approximately 3" of water
Pressure Drop Across System (@ 1000 CFM)	Less than 5" of water

Vapor Scrubber Specifications

Overall Unit Footprint (Scrubber Skid)	6' x 6'L
Optional Carbon Bed Footprint	4' x 4'
Empty Weight (Pounds)	1500
Vapor Inlet	4" Flange (Adjustable)
Vapor Outlet (From Scrubber Tower #2)	4" Flange (Adjustable)
Number of Towers	1
Tower Diameter (Inches)	24
Packing Height (Feet)	7
Reservoir Capacity (Gallons)	450
Re-Circulation Pump Type	Air Diaphragm & Magnetic Drive (460V)
Number of Pumps	2
Utility Required for Pump	Compressed Air or Nitrogen / 460V for Mag Drive
Pump Air Consumption (SCFM)	65
Available Blowers	Venturi Air-Horn / 600 CFM Electric
Unit Equipped with Mist Eliminator?	YES

Optional Carbon Polisher Specifications

Surface Area (Square Feet)	16
Carbon Capacity (Pounds)	1000
Maximum Temperature (°F)	140
Temperature Gauge	0-200°F Dial
Liquid Purge Inlet (Used to Flood Bed in Case of High Temp)	3/4" Crows Foot
Cleanout / Service Ports (One of Each on Carbon Polisher)	18" Flange