



DATASHEET

PPS-24 VAPOR SCRUBBER SYSTEM

DESCRIPTION:

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 polyethylene. 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%.



POSSIBLE REMOVAL EFFICIENCIES

| HAZARDOUS VAPOR | POSSIBLE REMOVAL EFFICIENCIES |
|------------------|-------------------------------|
| Chlorine | 99% |
| Acids | 99.9% |
| Amines | 99% |
| Acrylates | 99% |
| Mercaptans | 99% |
| Hydrogen Sulfide | 99.9% |
| Wastewater Odors | 99% |
| Ammonia | 99% |

APPLICATIONS

- Acid Tank Emissions Control
 - Tank Cleaning
 - Pipeline Vapor Control
- Fume Hood Emission Control

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.



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 7" 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 | 6" Flange |
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| 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 / 230/460V for Mag Drive |
| Pump Air Consumption (SCFM) | 65 |
| Available Blowers | Air-Horn / 600 CFM Electric |
| Unit Equipped with Mist Eliminator? | YES |