

DATASHEET

SST-40 VAPOR SCRUBBER SYSTEM

DESCRIPTION

Vapor Tech offers a rental emission control system designed for a variety of hazardous and/or odorous vapors. This system combines the high efficiency of a dual counterflow packed column scrubber coupled with the excellent adsorption capabilities of a carbon polishing vessel. This system satisfies the EPA requirement for proper emission control devices which yield an efficiency of over 98% (40 CFR 61 Subpart FF). It is designed to be connected to tanks, centrifuges, and/or dryers to provide emission/odor control. This unit is trailer mounted, making it completely mobile. Furthermore, the system is rated up to 3000 CFM, making it ideal for small to moderate tank cleaning applications. The standard package is with a 1500 CFM electric blower which is mounted to the scrubber unit.

The system is fairly simple. First, the vapors flow through each of the towers where cohesion takes place between the vapor and the chemical media (through the interaction with the packing media in the towers). Most of the vapor is captured or neutralized during this stage. The vapors are then directed through the carbon bed where they are polished (up to 99.9% in most cases). Many different types of chemicals may be used in this scrubber system. Whether you want to scrub out hydrocarbons, hydrogen sulfide or amines this unit has the capability since it is merely a function of the chemistry. Vapor Tech personnel can help assist you in determining which chemical media will provide the highest removal efficiency. We have over 70 years combined environmental and chemical experience to fall back on.



EFFICIENCIES

HAZARDOUS VAPOR VOC NEEDING REMOVAL	POSSIBLE REMOVAL EFFICIENCIES
EDC	99%
Acids	99.9%
Amines	99%
Acrylates	99%
Mercaptans	99%
Hydrogen Sulfide	99.9%
Wastewater Odors	99%
Hydrocarbons (BTEX, etc.)	99%

SCRUBBING CHEMICALS

Vapor Tech offers many types of chemicals for use in our scrubber systems. Generally, for hydrocarbon applications, our CARBONIL line of products is used for maximum scrubbing efficiency. For H₂S, our EZ-STRIP SS or Enviro-Scrub VT provides 99.9% removal. To achieve the highest efficiencies and safety, it is crucial that the scrubbing media is tailored to your specific vapor stream.

Through our vast experience in the chemical and vapor scrubber industry, we will optimize the equipment and chemical needs of your specific application. Contact us if you need further information.

OPERATIONAL PARAMETERS

Maximum Flow Rate (CFM)	1500
Minimum Flow Rate (CFM)	200
Maximum Pressure (PSI)	2
Maximum Temperature (°F)	140
Pressure Drop Across System (@ 1500 CFM) with carbon	Approximately 10" of water
Pressure Drop Across System (@ 1500 CFM) without carbon	Less than 3" of water

APPLICATIONS

- Large Tank Degassing
- Tank Cleaning Operations
 - Tank Venting
- Vacuum Truck Vapor Control
 - Pipeline Vapor Control
 - Process Vapor Control (centrifuge/plate press)

VAPOR SCRUBBER SPECIFICATIONS

Overall Unit Footprint (Trailer Size)	8'W x 25'L
Trailer Type	Gooseneck
Empty Weight (Pounds)	8,000#
Vapor Inlet	One 6" Flange & One 8" Flange
Vapor Outlet	10" Hose Connection
Number of Towers	2
Tower Diameter (Inches)	40
Packing Height (Feet)	10' (Total for Both Towers)
Reservoir Capacity (Gallons)	550
Re-Circulation Pump Type	Mag-Drive (Electric) and Air-Diaphragm
Number of Pumps	2
Utility Required for Pump	460V for Mag-Drive & Air for Diaphragm
Standard Blower	1500 CFM Electric (460V)
Unit Equipped with Mist Eliminator?	YES
Carbon Bed	Novac 2000 Carbon Adsorber

