



DATASHEET

SSTR-54 VAPOR SCRUBBER SYSTEM

DESCRIPTION

Vapor Tech offers a rental emission control system designed for a variety of hazardous and/or odorous vapors. This system consists of three, 54" x 8' towers. A large 1800 gallon reservoir sits below the towers. 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 6000 CFM, making it ideal for moderate to large tank cleaning applications. An optional 4000# radial-type carbon unit is an option which can guarantee 99.9% removal of most contaminants.

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 (optional) 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 75 years combined environmental and chemical experience to fall back on.

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 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.

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%



VAPOR SCRUBBER SPECIFICATIONS

Maximum Flow Rate (CFM)	6000
Maximum Pressure (PSI)	2
Maximum Temperature (°F)	140
Pressure Drop Across System (@ 3000 CFM) with carbon	Approximately 12" of water
Pressure Drop Across System (@ 3000 CFM) without carbon	Less than 3" of water
Overall Unit Footprint (Trailer Size)	8'W x 20'L
Trailer Type	Gooseneck
Empty Weight (Pounds)	12,000#
Vapor Inlet	12" 150#
Vapor Outlet (From Scrubber Tower #2)	12" 150#
Number of Towers	3
Tower Diameter (Inches)	54
Packing Height (Feet)	15 (Total for all 3 Towers)
Reservoir Capacity (Gallons)	1800
Re-Circulation Pump Type	Electric Centrifugal
Number of Pumps	1
Utility Required for Pump	460V 3 Phase
Electric Consumption	30 Amps (Pump), 50 Amps (3000 CFM Blower)
Available Blowers	1500 CFM, 3000 CFM and 6000 CFM
Unit Equipped with Mist Eliminator?	YES (Located in 3rd Tower)

APPLICATIONS

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

R4K RADIAL CARBON POLISHER SPECIFICATIONS (OPTIONAL)

Surface Area (cu ft)	132
Carbon Capacity (lbs)	4000
Maximum Pressure	2 psi
Temperature Gauge	Yes
Inlet/Outlet	12" 150# Flange
Cleanout / Service Port	Removable Top Lid

