

DATASHEET

SST-20 VAPOR SCRUBBER SYSTEM

DESCRIPTION:

Vapor Tech offers a medium sized vapor control system designed for a variety of hazardous and/or odorous vapors. This unit has twin 20" columns and is manufactured from chemically resistant stainless steel. In many cases, the unit by itself is capable of removal efficiencies as high as 99%. When outfitted with the carbon 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 is a skid mounted unit which is rated up to 750 CFM, making it ideal for low to moderate flow applications.

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. If needed, a carbon polisher may be attached to the exhaust of the SST-20 to achieve 99% removal.

Furthermore, 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.



APPLICATIONS

- Tank Vapor Control
- Tank Cleaning Activities
 - Degassing
 - Tank Cleaning

EFFICIENCIES

Hazardous Vapor/VOC	Possible Removal Efficiencies
EDC	99%
Amines	99%
Acrylates	99%
Mercaptans	99%
Hydrogen Sulfide	99.9%
Wastewater Odors	99%
Hydrocarbons (BTEX, Etc.)	99%

Contact Vapor Tech for other applications.

OPERATIONAL PARAMETERS

Maximum Flow Rate (CFM)	750
Minimum Flow Rate (CFM)	10
Maximum Pressure (PSI)	2
Maximum Temperature (°F)	160
Pressure Drop Across System (@500 CFM) with Carbon	Approximately 7" of Water
Pressure Drop Across System (@500 CFM) without Carbon	Less than 3" of Water

Vapor Tech offers many different types of chemical medias for the SST-20 vapor scrubber unit. A list of these chemicals is available on our website at www.vapor-tech.com under 'Vapor Scrubber Chemicals'. If you don't see your particular vapor or compound on the list, contact us at (409) 316-0173 or at salesandinfo@vapor-tech.com. Let us know what compound(s) you are needing neutralized or deodorized and we will custom blend you a scrubber solution.

SCRUBBER SPECIFICATIONS

Overall Unit Footprint (Scrubber Skid)	72"W x 74"L
Empty Weight (Pounds)	1500
Vapor Inlet	6" Flange
Vapor Outlet	6" Flange
Number of Towers	2
Tower Diameter (Inches)	20
Packing Height (Feet)	10 (Total for Both Towers)
Reservoir Capacity (Gallons)	450
Liquid Fill Port	2" Camlock Connection
Re-Circulation Pump Type	Magnetic Drive Pump (1" Pneumatic Backup)
Number of Pumps	2
Utility Required for Pump	Mag-Drive (460V,3P) / Pneumatic (Compressed Air)
Pump Air Consumption (SCFM)	65
Available Blowers	Venturi Air-Horn / 250 CFM Electric
Unit Equipped with Mist Eliminator?	YES
Cleanout Ports on Scrubber Unit	2 - 20" Vacuum Lids