



SPECIALTY ENVIRONMENTAL CHEMICALS AND EQUIPMENT

CSS-18 VAPOR SCRUBBER SYSTEM

DESCRIPTION:

Vapor Tech offers a small, compact vapor control system designed for a variety of hazardous and/or odorous vapors. This scrubber system is ideal for controlling hazardous and/or odorous vapors stemming from small tanks, vacuum boxes, frac tanks or process equipment. This unit comes skid mounted with fork slots and a containment basin. This system has two pump options, electric or air-operated diaphragm. A carbon polisher may be easily added to the exhaust of the scrubber to enhance the efficiency. Sample ports with valves are located on the inlet and outlet of the scrubber so that accurate measurements may be taken.

The system is fairly simple. First, the vapors flow through the 18" packed-tower where cohesion takes place between the vapor and the chemical media (through the interaction with the packing media in the tower). Most of the vapor is captured or neutralized during this stage. Then, the vapors are usually directed through a carbon bed (if needed) 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.

Lastly, not only are our scrubber systems unique in their design and practicality, they are very safe. We are the only company in the country who has temperature monitoring and emergency water quench systems on our carbon vessels as a standard feature. We are the largest portable vapor scrubber system leasing company for a reason; companies trust our reputation and dedication to safety.



APPLICATIONS

HAZARDOUS VAPOR/VOC

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%

Contact Vapor Tech for other applications.

SCRUBBING CHEMICALS:

Vapor Tech offers many types of chemicals for use in our scrubber systems. Generally, for hydrocarbon applications, our BIO-SCRUB X is used for maximum scrubbing efficiency. For H₂S, our ENVIRO-SCRUB VT provides 99.9% removal in most cases. 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)	750
Minimum Flow Rate (CFM)	10
Maximum Pressure (PSI)	5
Maximum Temperature (°F)	140
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 SCRUBBER SPECIFICATIONS:

Overall Unit Footprint (Skid Size)	4'x 5'L
Overall Height	122"
Empty Weight (Pounds)	1100
Vapor Inlet	4" Flange (150#)
Vapor Outlet	4" Flange (150#)
Number of Towers	1
Tower Diameter (Inches)	18
Packing Height (Feet)	5
Reservoir Capacity (Gallons)	50
Re-Circulation Pump Type	Air Diaphragm Standard (Electric Mag Drive Optional)
Number of Pumps	1
Utility Required	Compressed Air or Nitrogen
Pump Air Consumption (SCFM)	65
Available Blowers	Venturi Air-Horn / 250 CFM Electric
Unit Equipped with Mist Eliminator?	YES

CARBON POLISHER SPECIFICATIONS (Optional):

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 Temperature)	1/2" Valve
Cleanout/Service Ports (One of Each on Carbon Polisher)	20" Manway



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