

DATASHEET

VP-55D VAPOR CARBON ADSORBER

DESCRIPTION:

Carbon adsorber designed for hydrogen sulfide and mercaptan vapors. The drum contains approximately 200 pounds of specialized media which converts sulfur compounds into elemental sulfur. The media in this drum will adsorb an impressive 30% of its weight with sulfur compounds (regular carbon only will adsorb 3-4% by weight). This media will also adsorb organics such as hydrocarbons. This unit is designed for small to moderate air flows (10-120 CFM). Vessels are made of very durable steel with steel internal distributor.

PRODUCT USES & APPLICATIONS

- Product Storage Vents
- Process & Reactor Vents
- Wastewater Odor Control
- Sewer Vents
- Lab Applications
- Frac & Mix Tank Vapor Control

VESSEL SPECIFICATIONS

Vapor Inlet	2" FNPT
Vapor Outlet	2" FNPT
Monitor Port	3/4" FNPT (fits most breakthrough indicators)
Internal Distributor	Steel
Dimensions	25" dia x 35" h
Internal/Exterior Coating	Epoxy/Enamel
Carbon Fill Volume	7.0 cu ft
Cross Sectional Area	2.8 sq ft
Approx Carbon Weight (capacity)	200 lbs
Vessel Construction	Steel
Shipping Weight	245 lbs (approx)
Options Available	Venturi/Electric Blower, Break-through Indicator

OPERATING SPECIFICATIONS

Maximum Flow	120 SCFM
Maximum Pressure	Hydrostatic Pressure tested to 150 kPa (21.7 psi)
Maximum Vacuum	17" Hg
Maximum Temperature	140°
Incompatible Vapors	Ketones & Aldehydes (Fire!)
Fire Hazards	Low Flow with High VOC's

PRESSURE DROP GRAPH (As filled 4x10 GAC)

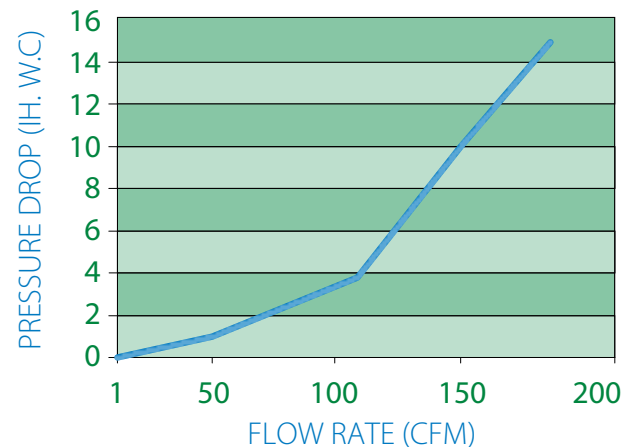
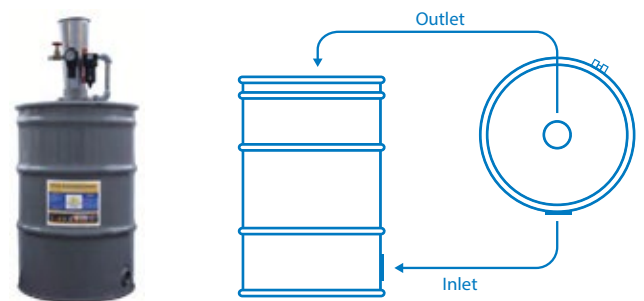


PHOTO & INLET / OUTLET ORIENTATION



VP55 Carbon Vessel Shown with Optional Venturi Blower

Section 1:
PRODUCT AND COMPANY IDENTIFICATION

Product Name..... VP-55D
 Synonyms..... N/A
 Chemical Use..... Liquid and Vapor Application
 Chemical Family..... Darco H2S Activated Carbon
 Issue Date of SDS..... October 3, 2014
 Revision Date of SDS..... 9/26/2025

MANUFACTURER:

Vapor Technologies, Inc.
 7200 Williams Street
 Hitchcock, TX 77563
 (409) 316-0173
www.vapor-tech.net

EMERGENCY TELEPHONE NUMBER: (877) 840-0646

Section 2:
HAZARDS IDENTIFICATION

<u>Health</u>	<u>Environmental</u>	<u>Physical</u>
Eye Damage/Irritation: Category 2B Skin Corrosion/Irritation: Category 3 Acute Toxicity-Oral: Category 5 Acute Toxicity-Inhalation: Category 5	None Known	None Known

Hazard Statements

- H316:** Causes mild skin irritation.
H320: Causes eye irritation.
H330: May be harmful if inhaled.
H303: May be harmful if swallowed.

GHS CLASSIFICATION

NON HAZARDOUS

Precautionary Statements

- P304 + P312:** IF INHALED: Call a POISON CENTER or doctor if you feel unwell.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes and remove contact lenses, if present.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.

SIGNAL WORD:

WARNING

GHS LABEL:

NO SYMBOL

	<u>NFPA</u>	
Health	1	0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe B - Safety Glasses & Gloves
Flammability	1	
Reactivity	0	
Special Notice	-	

<u>HMIS</u>	
1	Health
1	Flammability
0	Physical Hazard
B	PPE

Section 3:
COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS
Activated Carbon

CAS#
7440-44-0

CONCENTRATION
100%

Section 4:
FIRST AID MEASURES

- Eye Contact:** Immediately flush eyes with plenty of water. Get medical attention if irritation develops or persists.
Skin Contact: Remove contaminated clothing. Wash skin with soap and water. Get medical attention if irritation develops or persists.
Inhalation: If exposed to excessive levels of fumes, remove to fresh air. Get medical attention if cough or other symptoms develop.
Ingestion: DO NOT INDUCE VOMITING! Drink one or two glasses of water and get medical attention immediately

Section 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media: Use foam, carbon dioxide, or water spray to extinguish flames.

Unsuitable Extinguishing Media:..... No further relevant information available.

Combustion Products: None.

Fire Fighting Instructions.....As with any fire, wear sealed contained breathing apparatus, pressure demand MSHA/NIOSH (approved or equivalent) and full protective gear. Water runoff may cause environmental damage. Dike and collect water used to fight fire.

Section 6: ACCIDENTAL RELEASE MEASURE

Personal Precautions:..... Prevent contact with skin and eyes. See Section 8.

Environmental Precautions..... Prevent entry of product into drains, sewers, surface or ground water.

Methods for Cleaning Up:..... Clean spills in a manner that does not disperse dust into the air, preferably a wet-down procedure or vacuum.
If material is not contaminated, spilled media can be rebagged.

Section 7: HANDLING AND STORAGE

Handling:..... Avoid dispersion into the air. Keep containers dry and closed. Wet activated carbon removes oxygen from air causing a severe hazard to workers inside carbon vessels and enclosed or confined spaces. Do not get in eyes, on skin or clothing. Do not breath dust.

Storage.....Store in cool place in original container and keep away from direct sunlight and moisture. Keep container closed when not in use.

Shelf-Life..... One year.

Storage Temperature..... Store in ambient atmospheric conditions.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

EXPOSURE LIMITS:	<u>Component</u>	<u>ACGIH (TLV)</u>	<u>ACGIH (STEL)</u>	<u>OSHA (PEL)</u>
	Activated Carbon	Not Known	Not Known	5mg/M3 (respirable)

Engineering Controls..... Good general ventilation should be sufficient to control airborne levels.

Personal Protective Equipment (PPE):

Eye Protection..... Wear safety-goggles with side shields (or goggles). Contact lenses should not be worn.

Skin Protection..... Wear chemical resistant gloves.

Respiratory Protection..... For most situations, no respiratory protection is necessary.

General Hygiene Consideration..... There are no known health hazards associated with this product when used as recommended.

The following general hygiene considerations are recognized as common, good industrial hygiene practices:

- Wash hands after use and before eating.
- Avoid breathing vapors.
- Wear safety glasses and gloves.

Exposure Limits..... Recommended Exposure Limits 8-hr TWA (Total Dust), 2.1 mg/m³
Recommended Exposure Limits 8-hr TWA (Respirable Fraction), 0.7 mg/m³

Section 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance..... Black granules or powder with no odor.

Odor..... Odorless.

Vapor Pressure..... Not Determined.

Odor Threshold..... Not Determined.

Vapor density..... Not Determined.

pH..... Not Determined.

Relative Density..... Not Determined.

Melting point/Freezing point:..... Not Determined

Solubility in water..... Insoluble.

Initial boiling point and range..... Not Determined.

Flash Point..... Non Flammable.

Evaporation rate..... Not Determined.

Flammability (solid, gas):..... Not Determined.

Upper/Lower flammability or explosive limits:..... Not Established.

Partition coefficient..... Not Determined.

Auto igniting temperature..... Not Determined.

Decomposition temperature..... Not Determined.

Viscosity..... Not Determined.

Specific Gravity (water = 1)..... Not Determined.

