



"A leading worldwide supplier of high efficiency filters for a variety of industries and applications."

VAPOR ADSORPTION CARTRIDGES

We offer vapor adsorption cartridges comprised of an inner and outer filter tubes with the space between filled with adsorbent. The cartridges are sealed with end caps and provide a positive o-ring seal on each end. Flow rates are the same as for grade 50 elements in the same size bodies. However, with adsorption, more important considerations will be the volume of adsorbent and the contact time.



Features:

- Wide Range Of Adsorbents
- Small Re-Sealable Bulk Quantities Available
- No Handling Of Loose Adsorbents With Cartridge Form

Applications:

- Purify Lab / Gas
- Analyzer Protection
- Point-Of-Use Adsorption
- High Pressure Gas Production

Cartridges ⁽¹⁾ For Stainless Steel Housings	Cartridges ⁽¹⁾ For Aluminum & Plastics	Volume of Adsorbent in Cubic Centimeters	Length (Inches)	End Caps/Seal	Flow at 100 PSIG
12-32-XX	TRE12-32-XX	6	1.25"	Nylon/No Seal	5 SCFM
12-57-XX	TRE12-57-XX	9	2.25"	Nylon/Buna-N	10 SCFM
25-64-XX	TRE25-64-XX	20	2.50"	Nylon/Buna-N	15 SCFM
25-178-XX	TRE25-178-XX	90	7.00"	Nylon/Buna-N	40 SCFM
38-152-XX	TRE38-152-XX	130	6.00"	PVC/Buna-N	80 SCFM
51-230-XX	51-230-XX	220	9.00"	PVC/Buna-N	125 SCFM
51-476-XX	51-476-XX	530	18.75"	PVC/Buna-N	250 SCFM
63-762-XX	63-762-XX	1010	30.00"	PVC/Buna-N	560 SCFM

Notes: (1) Replace "xx" with adsorption required: CC, 4A, 13X, SG, DR, MB, PP, HO, SB, CS

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Adsorbent	Code	Principles
Activated Carbon	CC*	Adsorption of hydrocarbons and other organic vapors Zero Air Calibration
Molecular Sieve 4A	4A	Adsorption of CO ₂ , NH ₃ , H ₂ S, SO _x
Molecular Sieve 13X	13X	Adsorption of CO ₂ , NH ₃ , H ₂ S, SO _x , aromatics, amines
Silica Gel	SG	Adsorption of water vapor
Drierite - Anhydrous Calcium Sulfate	DR	Adsorption of water vapor
Mixed Bases	MB	Removal of acidic gases, CO ₂ , SO _x , NO _x , HCl
Potassium Permanganate	PP	Removal of SO _x , Hg, and other acidic gases
Hopcalite	HO	Removal of CO by catalytic oxidation to CO ₂
Sodium Bicarbonate	SB	Acid Neutralizer
Copper Sulfate	CS	Removal of ammonia

Note: (*) Headline's "CC" Adsorption Cartridges are comprised entirely of highly adsorbent fibrous charcoal in the form of a strong, flexible cloth. It has a much larger dynamic adsorption capacity than granular or other charcoal impregnated materials. Plus, the "cc" exhibits much lower degradation of performance in moist conditions than other charcoals. The carbon cloth is protected both inside and outside by a high efficiency layer of borosilicate glass microfiber, eliminating the chance for carbon dust carryover.

Carbon cloth absorbers should be protected by coalescing prefilters 70C and 50C to ensure optimal performance. Typically, carbon can hold 20-30% of its weight in contaminants.