



Adsorption Columns

Features

- Maximum Temperature 125°F
- Replaceable Adsorbent
- 5 Micron Filter Pads Included
- Full Contact with Adsorbent
- Acrylic Construction and Aluminum Construction Available
- Functional Mini-Dryers

Applications

- High Volume
- Eliminate Ghost Peaks
- Improve Baseline Readings
- Gas Purifiers
- Prevent "Freeze Outs"

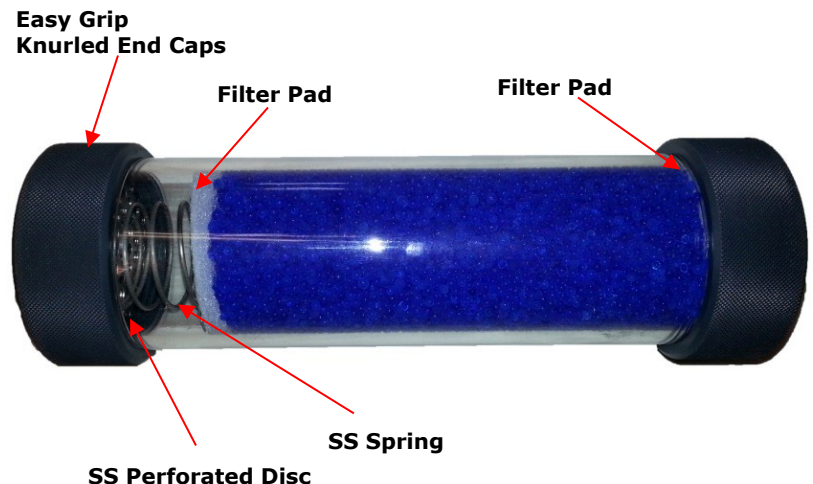
Our In-Line Adsorption Columns remove moisture, oil and impurities from gases before analysis. They are a simple, cost effective solution for the adsorption of various chemicals within a gaseous stream. The housings come complete, ready to install, with the adsorbent of your choice included. Adsorbents work by contact time. The longer the gas is in contact with the specific contaminant, the better the performance. Flow rates should be kept to a minimum.



Design

The units come complete with filter pads and stainless steel loaded compression spring to ensure the gas stream passes through the entire chamber versus "channeling" a single path. Knurled end caps make service quick and easy.

Note: Units are completely filled, and thus the spring is not normally visible. Directional flow arrows are attached for proper installation.



Acrylic Body – 1/4" NPT



Model Number	Replacement Adsorbent	Volume (cc)	Pressure (psig)	Tube OD	Cap Diameter	Overall Length
IACH-38-150-80-XX	RBIA-80-XX	80	80	1.50"	1.77"	5.91"
IACH-38-250-160-XX	RBIA-160-XX	160	80	1.50"	1.77"	9.84"
IACH-50-200-215-X	RBIA-215-XX	215	70	1.97"	2.36"	7.87"
IACH-50-350-440-XX	RBIA-440-XX	440	70	1.97"	2.36"	13.78"
IACH-70-250-610-XX	RBIA-610-XX	610	40	2.75"	3.15"	9.84"
IACH-70-450-1255-XX	RBIA-1255-XX	1255	40	2.75"	3.15"	17.72"
IACH-70-650-1900-XX	RBIA-1900-XX	1900	40	2.75"	3.15"	25.59"
IACH-100-350-2015-XX	RBIA-2015-XX	2015	30	3.94"	4.33"	13.78"
IACH-100-450-2700-XX	RBIA-2700-XX	2700	30	3.94"	4.33"	17.72"
IACH-100-650-4100-XX	RBIA-4100-XX	4100	30	3.94"	4.33"	25.59"

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

Aluminum Body – 1/2" NPT



Model Number	Replacement Adsorbent	Volume (cc)	Pressure (psig)	Tube OD	Cap Diameter	Overall Length
IAAH-1/2"-800-XX	RBIA-800-XX	800	250	3.47"	4.00"	8.00"
IAAH-1/2"-1600-XX	RBIA-1600-XX	1600	250	3.47"	4.00"	15.00"

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

Our adsorption products come filled and sealed with your choice of material. Simply add the adsorbent code as a suffix to the model number: (Example: IAAH-1/2-800-MB)

Loose Adsorbents

Features

- Purchase Only the Quantity Needed
- In Stock for Immediate Delivery
- Re-Sealable Containers
- Refill Housings with Exact Amount Needed - No Waste

Applications

- Ideal for Lab Projects
- Test Adsorbent Capabilities
- Refill Holders
- Beta Tests

Every adsorption application is unique, with many variables that influence adsorption rates. For best results, in field testing must be conducted for accurate percentages.

In addition to filling our adsorption vessels we also provide replacement material for units in the field. These are sold in re-sealable containers of 500cc, 800cc, 1000cc, and 1600cc.

To place an order: RBIA – amount of adsorbent needed – Specify Adsorbent
Example Part Number: RBIA-500-4A



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

Other Adsorbent Media and mixtures are available upon request.

