Adsorption Columns

PRODUCT FEATURES / BENEFITS

- Replaceable Adsorbent
- 5 Micron Filter Pads Included
- Full Contact with Adsorbent
- Available In Acrylic or Aluminum Construction
- Eliminate Ghost Peaks / Improve Baseline Readings
- Gas Purifiers
- Prevent “Freeze Outs”

Our In-Line Adsorption Columns effectively remove moisture, oil, and other impurities from gas streams prior to analysis. These cost-effective units offer a simple and reliable solution for the adsorption of various chemical contaminants.

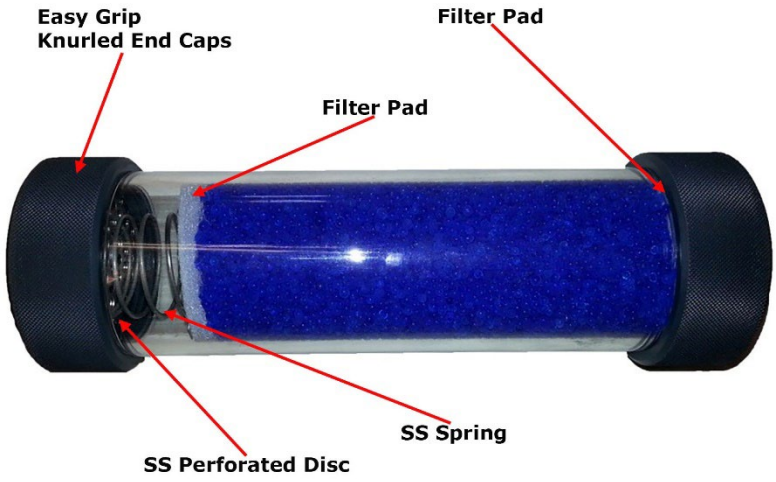
Each column comes fully assembled with your choice of adsorbent, ready for immediate installation. Adsorption efficiency depends on contact time—slower flow rates allow for better contaminant removal by increasing the interaction between the gas and the adsorbent media.

Design

Each unit comes fully assembled with high-efficiency filter pads and a stainless steel compression spring. The spring ensures uniform gas flow throughout the entire chamber, eliminating the risk of "channeling" through a single path.

Knurled end caps allow for quick and easy service without the need for specialized tools.

Note:
Units are filled during assembly, so the internal spring is typically not visible. Directional flow arrows are affixed to each unit to ensure correct installation orientation.



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

PRODUCT FEATURES / BENEFITS

- Purchase Only The Quantity Needed
- In Stock For Immediate Delivery
- Re-Sealable Containers
- Refill Housings with Exact Amount Needed – No Waste
- Ideal For Lab Projects
- Test Adsorbent Capabilites
- Beta Tests

Every adsorption application is unique, with numerous variables that can influence adsorption rates. For optimal results, in-field testing is essential to determine accurate performance percentages.

In addition to filling our adsorption vessels, we also supply replacement media for units already in the field. These are available in resealable 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_2S, SO_X
Molecular Sieve 13X	**13X**	Adsorption of CO_2, NH_3, H_2S, 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, HCI
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.