

# Bag In/Bag Out

## A Multi-Stage High Efficiency Filtration System

The AAF Bag In/Bag Out side access filter system is a safe, simple, reliable method for removing contaminated particulate filters and/or gas absorbers used for air purification in hazardous environments.

With this system, maintenance personnel are protected from coming in direct contact with the interior of the housing and hazardous contaminants during filter change-out.



### Features

- Deep Adsorber Housing
  - Housings are available for 12", 16" and 18" adsorber filter cells. When additional residence time is required, these units can be furnished in series, or operated at lower face velocities.
- Pressure Testing
  - Each housing is designed to withstand +/- 20" WG and factory tested to +10" WG in accordance with ANSI/ASME N 509 and N 510, to ensure overall housing integrity.
- Upstream Filter Seal
  - Each HEPA filter and adsorber filter seals against the air entering face of the frame to prevent interior contaminant build-up.

### Options

- All units can be fabricated using alternative 316/316L stainless steel construction
- Special transitions, both square-to-square or square-to-round
- Special low leakage isolation dampers

- Weather cover – a weather cover is recommended for all outdoor installations
- Pressure gauge – magnehelic gauges can be furnished already installed or for easy field installation. Indoor or weatherproof outdoor options are available.

### Applications

The Bag In/Bag Out system is designed for use in any facility requiring optimum levels of safety and product integrity.

- Nuclear power plants and fuel processing facilities
- Animal disease laboratories
- Food facilities
- Hospitals and other healthcare facilities
- Electronics manufacturing (cleanrooms)
- Toxic waste isolation plants
- Industrial, research, and military facilities handling chemical, biological, radiological, or carcinogenic materials
- Nuclear weapons plants
- Commercial reactors and U.S. Government reactor test stations
- Biomedical research and genetic engineering facilities
- Pharmaceutical laboratories

### Stainless Construction

All units are constructed of 14 gauge, 304 stainless steel. Optional 316/316L stainless steel is available.

### Three Filters Per Door

Units up to three filters wide are serviced through only one door. Two doors are furnished with units four through six filters wide, one on each side of the housing.

### Separate Door

Each filter component, prefilter, HEPA filter, and adsorber filter is furnished with an individual door with protective bag to allow selective, safe, and economical service.

### External Flanges

All housing flanges are turned out for ease of field connection and to keep them out of the contaminated gas stream, ensuring smooth non-turbulent airflow.

### Standard Final Filters

The basic housing is designed for standard 24' x 24" x 11½" HEPA filters or carbon adsorber cells. AAF designs and manufactures a full line of HEPA filters and adsorber cells. Filters include high-capacity AstroCel® HEPA filters for service up to 2,000 CFM each.



BETTER AIR IS OUR BUSINESS®



ENVIRONMENTAL  
SOLUTIONS

# Bag In/Bag Out

## Details

### Door Details

Door showing gasket, also pictured are optional lifting lugs, pressure taps, and weather cover.

### Containment Bag

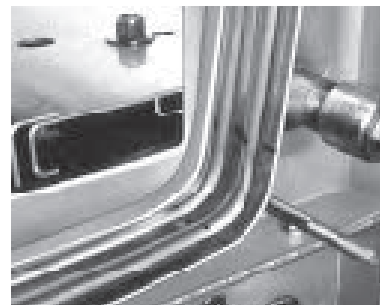
A bag kit is shipped for use with each door. Each PVC containment bag is 108" long and furnished with three internal "gloves" to facilitate safe removal of up to three filters. A full set of cinching straps and safety straps is also furnished.

### External Locking Mechanism

All gasket seal filters and adsorbers are furnished with a replaceable clamp type locking mechanism which is actuated from outside the housing. Filter seals can be "fine-tuned" as needed without opening the door. An optional security device is available to turn an external locking mechanism into an internal locking mechanism. This requires that the door be opened for the locking mechanism to be activated.

### Internal Locking Mechanism

All fluid seal filters are sealed using an internally actuated locking arm.



## Selection Information

Capacity (CFM)

Height Designation	Overall Height of Housing	Width Designation											
		Overall Width of Housing**											
		1W		2W		3W		4W		5W		6W	
		2'-5"		4'-5"		6'-5"		8'-10"		10'-10"		12'-10"	
250 FPM *500 FPM		250 FPM *500 FPM		250 FPM *500 FPM		250 FPM *500 FPM		250 FPM *500 FPM		250 FPM *500 FPM			
1H	2'-5¾"	1,000	2,000	2,000	4,000	3,000	6,000	4,000	8,000	5,000	10,000	6,000	12,000
2H	4'-11½"	2,000	4,000	4,000	8,000	6,000	12,000	8,000	16,000	10,000	20,000	12,000	24,000
3H	7'-5¼"	3,000	6,000	6,000	12,000	9,000	18,000	12,000	24,000	15,000	30,000	18,000	36,000
4H	9'-11"	4,000	8,000	8,000	16,000	12,000	24,000	16,000	32,000	20,000	40,000	24,000	48,000

\* 500 FPM rating is available only for prefilters and for the high capacity AstroCel® HCX HEPA filter. Maximum rating available for the nuclear HEPA filter is 375 FPM and for the 18" adsorber filter is 312.5 FPM.

\*\* Includes width of doors.

The information in this document is the property of American Air Filter Company, Inc. and its affiliated companies (collectively, "AAF") and may not be copied or distributed to any third party, or used for any purpose other than that for which it is supplied, without the express written consent of AAF.

While the information herein is provided in good faith based on information available when the document was created, it should not be relied upon as being complete or accurate, and the products advertised within this document, and their components and accessories, are subject to change without notice. AAF provides this information on an AS IS basis and makes no warranties, expressed or implied, or representations regarding same. This document does not establish, and should not be taken as establishing, and contractual or other commitment binding upon AAF or any of its subsidiaries or associated companies.

ISO Certified Firm ©2016 AAF International  
APC-1-260E



BETTER AIR IS OUR BUSINESS®

North & South America

AAF International  
9920 Corporate Campus Drive, Suite 2200  
Louisville, KY 40223-5000, USA  
Tel: 1 502 637 0011  
Toll Free: 1 800 477 1214  
Email: aafep@aafintl.com