



Better Air is Our Business®

AmericanAirFilter® Bag In/Bag Out

A Multi-Stage High Efficiency Filtration System

The AAF Bag In/Bag Out side loading 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.

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

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 " w.g. and factory tested to $+10$ " w.g. 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.



Stainless Construction - All units are constructed of 14 gauge, 304L 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"x24"x11 1/2" 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 2000 CFM each.

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.

BagIn/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 in CFM

Height Designation	Overall Height of Housing	Width Designation											
		1W		2W		3W		4W		5W		6W	
		Overall Width of Housing**											
		2' - 5"		4' - 5"		6' - 5"		8' - 10"		10' - 10'		12' - 10"	
		250FPM	*500FPM	250FPM	*500FPM	250FPM	*500FPM	250FPM	*500FPM	250FPM	*500FPM	250FPM	*500FPM
1H	2'5¼"	1000	2000	2000	4000	3000	6000	4000	8000	5000	10000	6000	12000
2H	4'11½"	2000	4000	4000	8000	6000	12000	8000	16000	10000	20000	12000	24000
3H	7'5¼"	3000	6000	6000	12000	9000	18000	12000	24000	15000	30000	18000	36000
4H	9'11"	4000	8000	8000	16000	12000	24000	16000	32000	20000	40000	24000	48000

*500 FPM rating is available only for prefilters and for the high capacity AstroCel® HCX HEPA filter. The maximum ratings available for the nuclear HEPA filter is 375 FPM and for the 18-inch adsorber filter is 312.5 FPM.

**Includes width of doors.