

Bag In/Bag Out

A Multi-Stage High Efficiency Filtration System

The COBEAL BIBO SERIES 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.

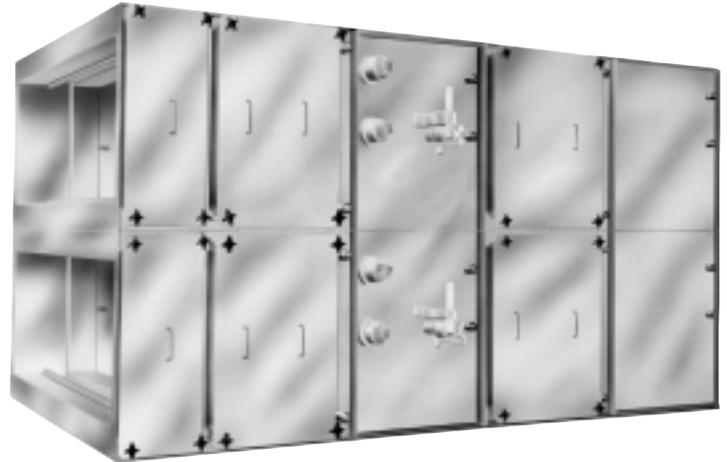
- Nuclear power plants and fuel processing facilities
- Animal disease laboratories
- Food facilities
- Hospitals and other healthcare facilities
- Electronics manufacturing (cleanrooms)
- Toxic waste isolation plants
- Industrial, research, and military facilities handling chemical, biological, radiological, 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.

Four Filters Per Door - Units up to four filters wide are serviced through only one door.

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.

COBEAL™ BIBO SERIES

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.

NOTE:

Filtration and air-cleaning systems may protect a building and its occupants from the effects of a CBR (chemical, biological, radiological) attack. Although it is impossible to completely eliminate the risk from an attack, filtration and air-cleaning systems are important components of a comprehensive plan to reduce the consequences. CBR agents can be effectively removed by properly designed, installed, by maintaining Cobeal's filtration and air-cleaning systems, according to instructions. Cobeal's systems have other benefits besides reducing clean-up costs and delays. These benefits include improving building cleanliness, improving HVAC system efficiency, potentially preventing cases of respiratory infection, reducing exacerbations of asthma and allergies, and generally improving building indoor air quality. Poor indoor air quality has been associated with eye, nose, and throat irritation, headaches, dizziness, difficulty concentrating, and fatigue.

Contact Cobeal to better understand the design and operation of your existing building and HVAC system. We will assess the current threat and level of protection you need from your system to help you make an informed decision regarding your building's filtration and air-cleaning needs. In some situations, the existing system may be adequate, while in others major changes or improvements may be merited.

Selection Guide				
BAG IN BAG OUT UNIT	Height (mm)	Width (mm)	Maximum Air Volume 1.7 m/s	Maximum Air Volume 2.55 m/s
BIBO 11	880	880	1,700	3,400
BIBO 12	880	1,760	3,400	6,800
BIBO 13	880	1,982	5,100	10,200
BIBO 14	880	2,478	6,800	13,600
BIBO 21	1,760	880	3,400	6,800
BIBO 22	1,760	1,760	6,800	13,600
BIBO 23	1,760	1,982	10,200	20,400
BIBO 24	1,760	2,478	13,600	27,200
BIBO 31	1,982	880	5,100	10,200
BIBO 32	1,982	1,760	10,200	20,400
BIBO 33	1,982	1,982	15,300	30,600
BIBO 34	1,982	2,478	20,400	40,800
BIBO 41	2,478	880	6,800	13,600
BIBO 42	2,478	1,760	13,600	27,200
BIBO 43	2,478	1,982	20,400	40,800
BIBO 44	2,478	2,478	40,800	81,600

ISO-9001 Certified Firm

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