

Gel Seal (KF-Series) and Gasket Seal (KG-Series) Filters

INSTALLATION INSTRUCTIONS

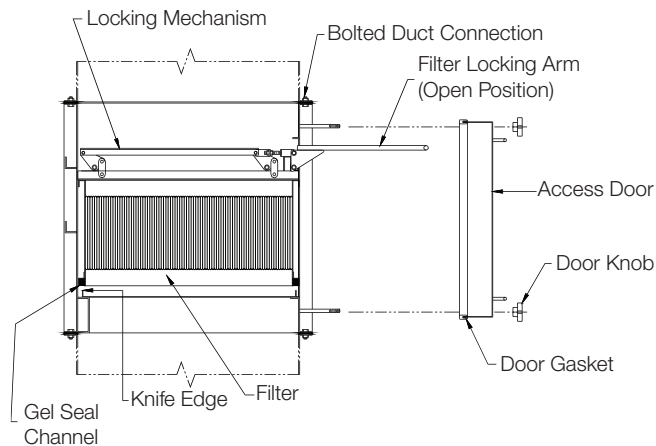
Non-Bag-In/Bag-Out Filter Housings

Housing Installation

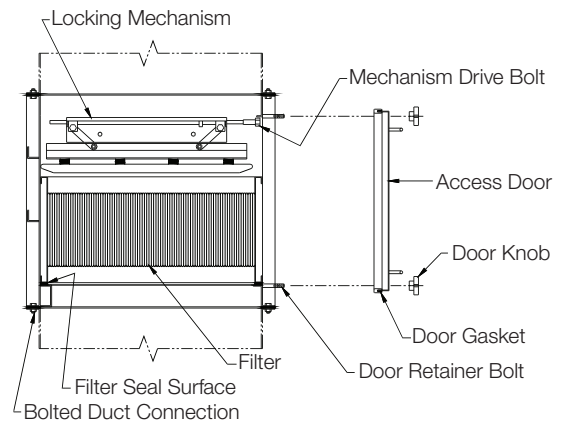
1. Attach housing(s) to the ductwork before installing the filter(s) or adsorber(s).
2. Flanges of the housing(s) can be attached to mating flanges of the ductwork by bolts (see illustration below) or by sheet metal screws, rivets, or welding. Bolt hole pattern should not exceed four (4) inches between holes. All joints should be sealed airtight by welding, bolting with gaskets, or with a suitable caulking compound such as RTV silicone adhesive sealant.
3. Following installation of the housing(s), the system should be blown down to remove construction dust, etc. before installing the filter(s). Prefilters may need to be installed before system blow down, if required by the project specifications.



Section Views



KF-Series Housing

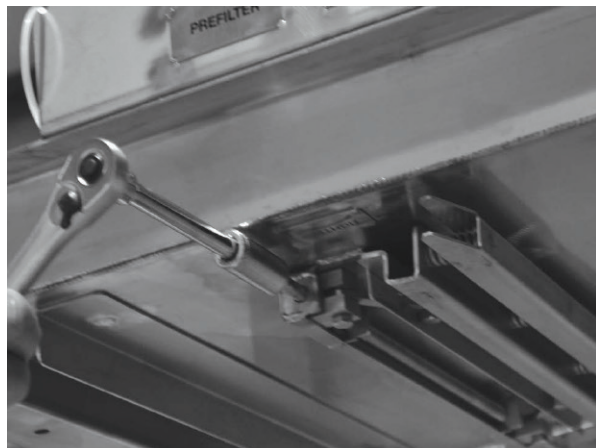


KG-Series Housing

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KG-Series (Gasket Seal) Filter Installation

1. With the speed wrench or ratchet, turn both locking mechanisms counterclockwise until you feel it bottom out. The locking mechanism is now fully open and will allow the filter(s) to slide freely into place.



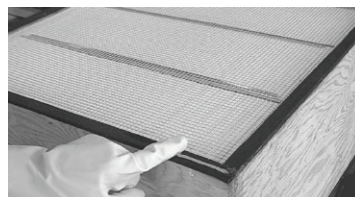
2. To prevent filter gasket from sticking to the housing sealing surface after being compressed for an extended period, the entire face of each new filter gasket may be coated with an optional silicone grease before being installed. A 1/8" - 3/16" diameter bead of this silicone grease can be applied to the middle of the entire 3/4" wide filter gasket.

The grease should then be spread evenly across the entire gasket face. This thin coating of silicone grease acts as a release agent and will also help achieve and maintain a good filter-to-housing seal.

Caution: Do not use RTV (Room Temperature Vulcanizing). RTV would stick filter to housing, thereby creating a potential problem of filter removal.



Optional - Apply bead of grease on center of gasket strips.



Evenly spread grease over entire gasket.

3. Load the filter(s) into the housing, ensuring that the filter(s) is installed in the correct position. When airflow is horizontal, pleats (or separators) of prefilters and HEPA filter(s) must run vertically and carbon beds of carbon adsorbers must run horizontally.

When sliding the filter(s) into the housing, it is helpful to use the pressure bars of the locking mechanism as guides by butting the non-gasket side of the filter(s) to the bars and gently but firmly pushing the filter(s) until it touches the back of the housing or as far as can be reached. On multi-wide housings, repeat procedure for each filter until all filters are installed. On three-wide housings it may be necessary to use the second filter to push the first filter installed all the way to the back of the housing.

4. Lock the filter(s) in place to the housing sealing surface by alternating from top locking mechanism to bottom locking mechanism. First turn top locking mechanism clockwise with ratchet until the filter(s) is snug, then turn bottom locking mechanism until the filter is completely tightened.

Now completely tighten the top locking mechanism.

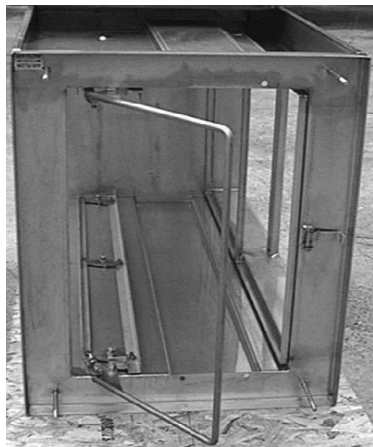
The filter(s) is now sealed.

5. Replace the access door and hand tighten the aluminum door latches.

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KF-Series (Gasket Seal) Filter Installation

1. After properly installing the housing in the system, open the door, grasp the filter locking arm, release the catch and pull to open the locking mechanism.



2. To install the filter (or adsorber) in the housing, orient the filter so that the T-clips on the filter overlap the mechanism and the gel seal channel is aligned with the knife edge of the housing.

Push the filter(s) until it touches the back of the housing or as far as can be reached.



Filter T-Clip

Note: When airflow is horizontal, separators (or pleats) of prefilters and HEPA filter(s) must run vertically, and carbon beds of carbon adsorbers must run horizontally.

On multi-wide housings, repeat the procedure for each filter until all filters are installed.

On three-wide filter housings it may be necessary to use the second filter to push the first filter installed all the way to the back of the housing.

3. After the filter(s) has been inserted, push the locking arm toward the filter and engage the locking arm catch. If the locking arm will not close and allow the catch to be engaged, the filter(s) is not properly aligned for insertion onto the knife edge. Open the locking arm and adjust filter(s) by pushing the top, middle, and/or bottom of the filter. This will seal the filter(s) against the knife edge.
4. Close the access door and tighten the door 4. latches.



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CSP-3-105