

EZXCAB

Furnace and Air Handler Applications EZ Flex™ Expandable Air Filter Cabinet

Installation Instructions

NOTE: Read the entire instruction manual before starting the installation.

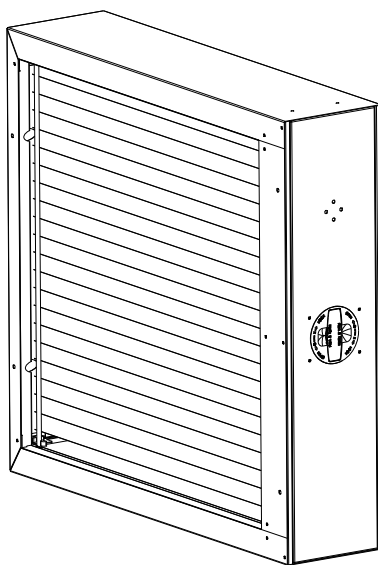


Fig. 1 – EZXCAB

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SAFETY CONSIDERATIONS

Improper installation, adjustment, alteration, service, maintenance, or use can cause explosion, fire, electrical shock, or other conditions which may cause death, personal injury, or property damage. Consult a qualified installer, service agency, or your distributor or branch for information or assistance. The qualified installer or agency must use factory-authorized kits or accessories when modifying this product. Refer to the individual instructions packaged with the kits or accessories when installing.

Follow all safety codes. Wear safety glasses, protective clothing, and work gloves. Have a fire extinguisher available. Read these instructions thoroughly and follow all warnings or cautions included in literature and attached to the unit. Consult local building codes, the current editions of the National Fuel Gas Code (NFGC) NFPA 54/ANSI Z223.1, and the National Electrical Code (NEC) NFPA 70.

In Canada refer to the current editions of the National Standards of Canada CAN/CSA-B149.1 and .2 Natural Gas and Propane Installation Codes, and Canadian Electrical Code CSA C22.1.

Recognize safety information. When you see this symbol ⚠ on the unit and in instructions or manuals, be alert to the potential for personal injury. Understand the signal words DANGER, WARNING, CAUTION, and NOTE. These words are used with the safety-alert symbol. DANGER identifies the most serious hazards which will result in severe personal injury or death. WARNING signifies hazards which could result in personal injury or death. CAUTION is used to identify unsafe practices which may result in minor personal injury or product and property damage. NOTE is used to highlight suggestions which will result in enhanced installation, reliability, or operation.

INTRODUCTION

These instructions cover the installation, operation and maintenance of an EZXCAB EZ Flex™ Expandable Air Filter Cabinet. See Fig. 1. Refer to Fig. 3 for a list of major components.

DESCRIPTION AND USAGE

APPLICATION

This EZ Flex™ Expandable Air Filter Cabinet is fully insulated and must be used in a forced air heating, cooling or ventilation system. This filter cabinet should be installed in the system so that all the system air is circulated through this filter cabinet. Maximum performance is obtained when the system blower is set for continuous operation.

INSTALLATION REQUIREMENTS

The best location for the air filtration system is in the return air duct next to the blower compartment. In this location, the blower motor and cooling coils will be kept clean. Do not install the air cleaner in the discharge (supply) air duct. Before installing this air filtration system, consider the application. If a transition is required, refer to Fig. 4 or Fig. 5. The unit must be readily accessible for periodic inspection and replacement of EZ-Flex™ filter to maintain maximum efficiency and trouble-free operation. Prior to installing the EZ Flex Filter Cabinet, in cases where the unit is mounted on the sides of the furnace, the following screw needs removed (See Fig. 2 below). When installing the unit, it is recommended to use no larger than a #10 screw with a MAX head diameter of 3/8".

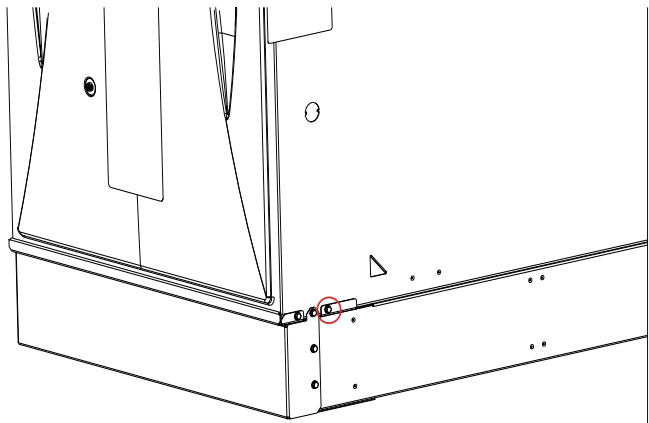


Fig. 2 – Screw Removal for Furnace Side Mount

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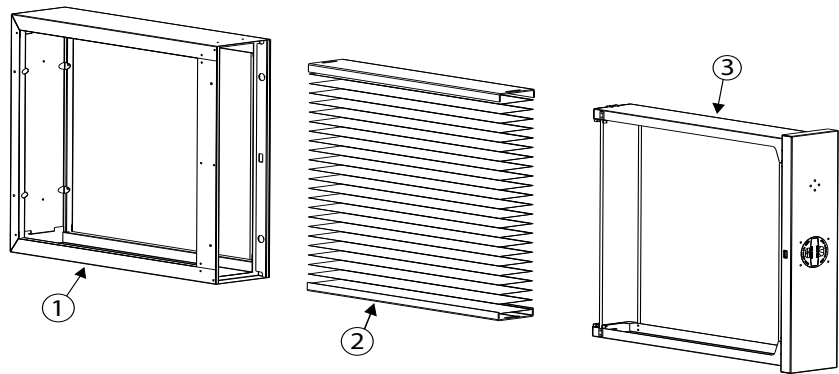


Fig. 3 – EZXCAB Major Components

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Table 1 – Major Components

Furnace and Air Handler Applications	PART DESCRIPTION
1	Outer Cabinet
2	EZ Flex Filter Media
3	Access Door Assembly

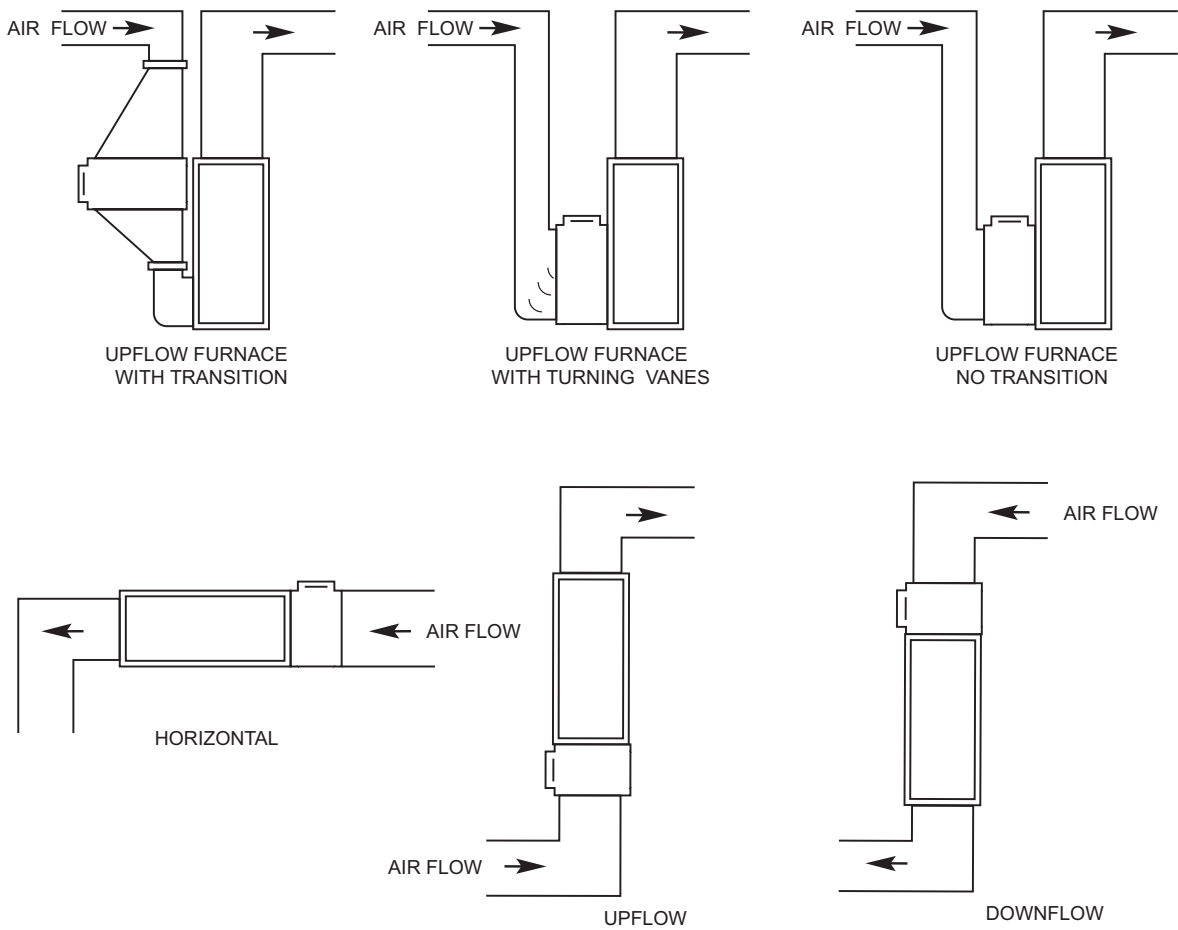


Fig. 4 – Typical Mounting Positions

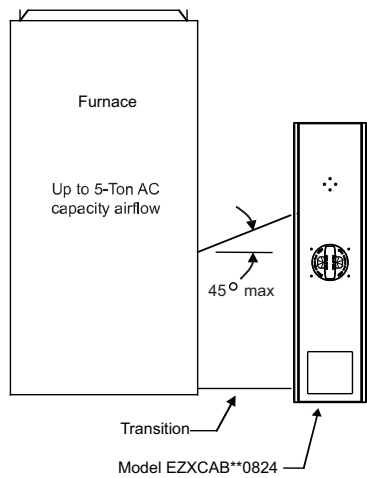
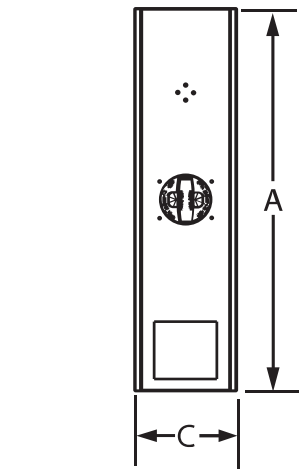


Fig. 5 – Furnace



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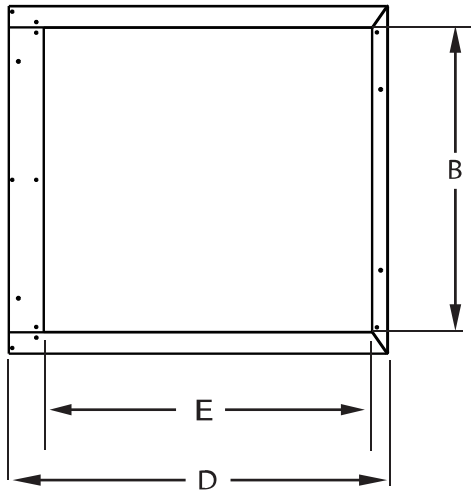


Fig. 6 – EZXCAB Dimensions

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MODEL EZXCAB	A	B	C	D	E
EZXCAB****14	14.175" (360 mm)	11.049" (280.6 mm)	6.5" (165.1 mm)	22.25" (565.2 mm)	19.5" (495.3 mm)
EZXCAB****16	17" (431.8 mm)	13.875" (352.4 mm)		26.5" (673.1 mm)	22.958" (583.1 mm)
EZXCAB****17	17.488" (444.2 mm)	14.362" (364.8 mm)		22.25" (565.2 mm)	19.5" (495.3 mm)
EZXCAB****20	21" (533.4 mm)	17.875" (454 mm)		26.5" (673.1 mm)	22.958" (583.1 mm)
EZXCAB****21	20.988" (533.1 mm)	17.862" (453.7 mm)		22.25" (565.2 mm)	19.5" (495.3 mm)
EZXCAB****24	25" (635 mm)	21.875" (555.6 mm)		26.5" (673.1 mm)	22.958" (583.1 mm)
EZXCAB****25	24.488" (634.7 mm)	21.362" (542.6 mm)		22.25" (565.2 mm)	19.5" (495.3 mm)

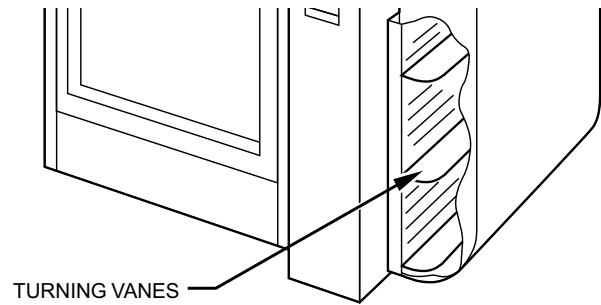


Fig. 7 – Turning Vanes

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HUMIDIFIERS

Location of the system humidifier is important to the operation of the air cleaner. When an evaporator type humidifier is used, it may be installed between the furnace warm air duct and the return air duct without affecting the air cleaner.

INSTALLATION

! WARNING

CARBON MONOXIDE HAZARD

Failure to follow this warning could result in personal injury or death. Do not remove door during blower operation or operate blower with door removed or improperly latched.

! CAUTION

CUT HAZARD

Failure to follow this caution may result in personal injury. Sheet metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing and gloves when handling parts.

1. Turn off power disconnect and install lockout tag.
2. Check the rating given on this product to make sure it is suitable for your application.
3. Remove the old furnace filter and discard.

NOTE: The air cleaner cannot remove existing dirt from the blower and ducts.

NOTE: The following is a typical installation of this air cleaner on an upflow furnace. You may have to alter the installation to fit your specific application.

4. Locate the cabinet in the cold air return duct so that all of the return air flows through the unit. If the furnace and air cleaner openings are different, use a transition. See Fig. 4.
5. Mounting holes are provided for simple connection to duct work and unit cabinet. See Fig. 8. The 0.14 in. holes are sized for #8 sheet metal screws, or 1/8 in. rivets. If the adjoining duct work is flanged, install the screws so that the screw heads are inside the cabinet. This will prevent damage to the EZ-Flex filter during removal and installation.

SELECT LOCATION FOR THE AIR CLEANER

Select a location that is readily accessible for periodic inspection and cleaning. Allow a minimum of 26-in. (660mm) in front of the access panel for EZ-Flex filter removal and replacement. For complete unit dimensions refer to Fig. 6.

DIRECTION OF AIR FLOW THROUGH THIS AIR CLEANER

The filter is set up for left to right airflow, when facing the access door. For right to left air flow remove EZ-Flex filter, turn it around and replace in cabinet. The directional arrows on the filter must point in the direction of air flow.

AIR CONDITIONING

The air filtration system should be installed upstream of the cooling coil. This will help keep the coil clean and reduce air conditioning coil maintenance. Improved cooling efficiency is the result, which directly affects energy costs. A clean coil will reduce utility costs.

IMPORTANT: Failure to replace EZ-Flex filter can cause damage to the cooling system.

TURNING VANES

If the air cleaner is installed adjacent to a 90° duct connection, add turning vanes inside the duct to improve the air distribution across the face of the filter. See Fig. 7.

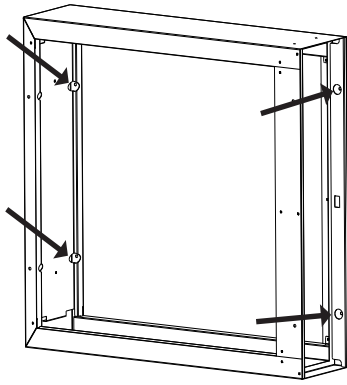


Fig. 8 – Mounting Holes

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6. After the cabinet has been secured, use caulk or tape to seal seams airtight.
7. Remove Filter from box, assemble then place in cabinet. See Fig. 9.
8. Install access door and ensure a tight seal.

MAINTENANCE

HOW TO MAINTAIN YOUR AIR CLEANER

The filter media in your cabinet **MUST** be replaced periodically. Filters of this type should be replaced, on average, every 6 months but can vary based on the environmental conditions in the home.

STEPS FOR REPLACING FILTER

1. Turn off power to blower.
2. Remove access door and filter assembly by pulling the handle out, rotating 90° to unlock the door and sliding the assembly out.
3. Remove existing filter over a trash can or bag by releasing the filter clips at the far end of the door.
4. Install the new filter with the four attachment points as shown and securing the clips at the far end of the door.
5. Reinstall the filter assembly by reversing step 2. Make sure the door and filter assembly are all the way in the cabinet and the handle is securely turned to the closed position.
6. Replace access door.

REPLACEMENT FILTERS

REPLACEMENT EZ-FLEX FILTERS FOR YOUR EZ FLEX™ EXPANDABLE AIR FILTER CABINET

Remember, periodic inspection and twice annual replacement of your filter will ensure high efficiency air cleaning. Contact your HVAC dealer for replacement EZ-Flex Filters. See Table 2.

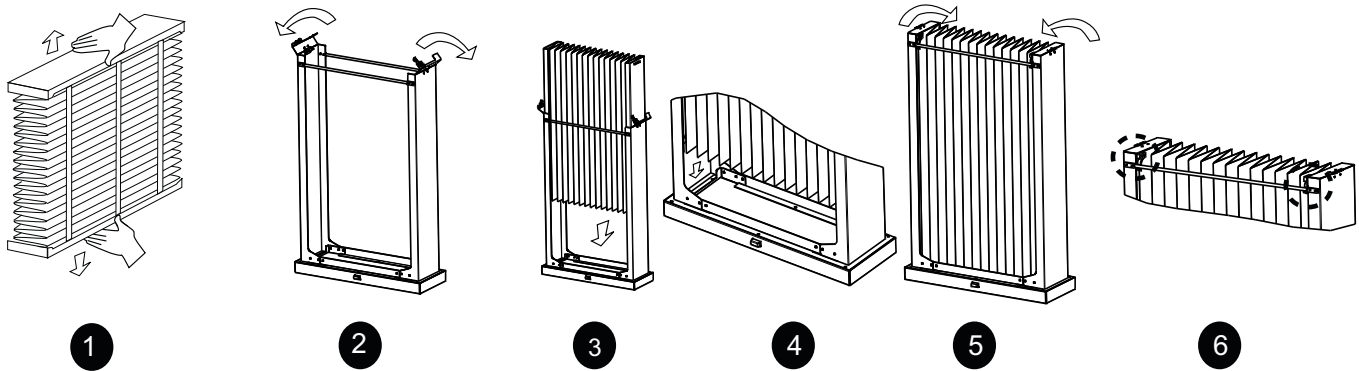


Fig. 9 – EZ-Flex Filter Assembly

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Table 2 – Replacement Filters

PART NUMBER	MERV	Filter Size	Application
EXPXXFIL0814	8	12x20	Air Handler
EXPXXFIL1114	11	12x20	Air Handler
EXPXXFIL1314	13	12x20	Air Handler
EXPXXFIL0817	8	16x20	Air Handler
EXPXXFIL1117	11	16x20	Air Handler
EXPXXFIL1317	13	16x20	Air Handler
EXPXXFIL0821	8	20x20	Air Handler
EXPXXFIL1121	11	20x20	Air Handler
EXPXXFIL1321	13	20x20	Air Handler
EXPXXFIL0825	8	24x20	Air Handler
EXPXXFIL1125	11	24x20	Air Handler
EXPXXFIL1325	13	24x20	Air Handler
EXPXXFIL0816	8	16x25	Furnace
EXPXXFIL1116	11	16x25	Furnace
EXPXXFIL1316	13	16x25	Furnace
EXPXXFIL0820	8	20x25	Furnace
EXPXXFIL1120	11	20x25	Furnace
EXPXXFIL1320	13	20x25	Furnace
EXPXXFIL0824	8	24x25	Furnace
EXPXXFIL1124	11	24x25	Furnace
EXPXXFIL1324	13	24x25	Furnace