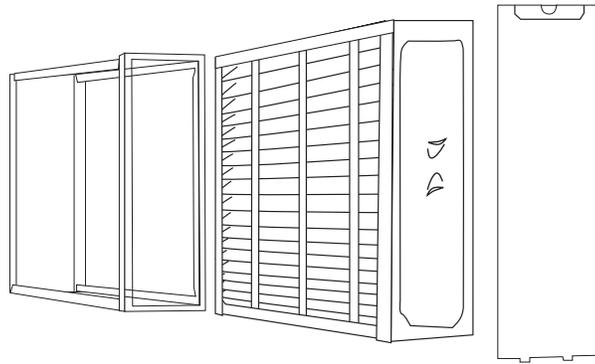


EZX CAB

High Efficiency Air Filtration System



Manual for:
Installation • Operation • Maintenance
EZX CAB-0016 & -0020

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

SAFETY CONSIDERATIONS

Installation and service of heating and air conditioning equipment can be hazardous due to system pressure and gas and electrical components. Only trained and qualified personnel should repair, or service heating and air conditioning equipment. Untrained personnel can perform basic maintenance functions such as cleaning and replacing air filters. All other operations must be performed by trained service personnel. When working on heating and air conditioning equipment, observe precautions in the literature, tags, and labels attached to or shipped with the unit and other safety precautions that may apply. Follow all safety codes. Wear safety glasses and work gloves. Use quenching cloth for brazing operations. Have fire extinguisher available. Read these instructions thoroughly and follow all warning or cautions attached to the unit. Consult local building codes and National Electrical Code (NEC) for special requirements. It is important to recognize safety information. This is the safety alert symbol. When you see this symbol on the unit and in instructions or manuals, be alert to the potential for personal injury.

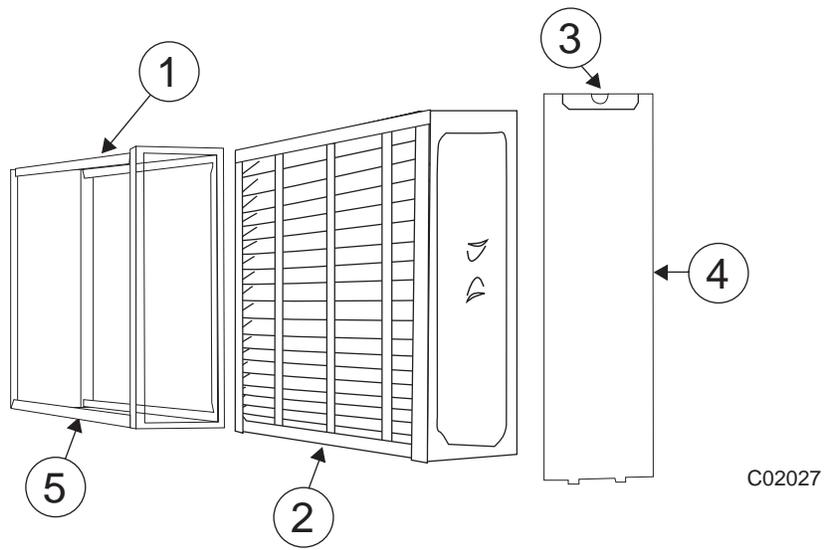
Understand the signal words DANGER, WARNING, and CAUTION. These words are used with the safety alert symbol. DANGER identifies the most serious hazards which **will** result in severe personal injury or death. WARNING signifies hazards which **could** result in personal injury or death. CAUTION is used to identify unsafe practices which **would** result in minor personal injury or product and property damage.

INTRODUCTION

The Model EZXCAB High Efficiency Air Cleaner is designed for installation in the return-air duct in any forced-air heating and/or cooling system. The model EZXCAB High Efficiency Air Cleaners are available in two sizes, 016 and 020.

The EZFlex expandable media filter is a mechanical air cleaner incorporating special pleated filter media designed to remove dirt, dust, pollen, and other microscopic particles from the air passing through it. The pleats provide an exceptionally filtering face area in a very compact space which allows maximum dirt holding capacities.

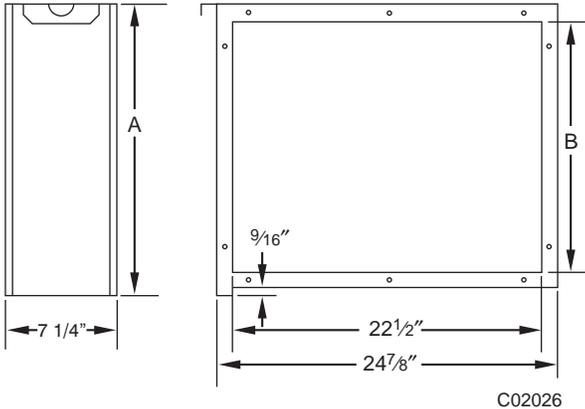
When applying the EZXCAB, attention must be given to duct and system design because these components affect system static pressure. To maintain the proper efficiency and reliable operation of the EZXCAB Mechanical Air Cleaner and your HVAC equipment, this filter should only be applied to properly designed duct systems and properly sized HVAC equipment. The EZXCAB has a higher static pressure drop than the typical factory supplied furnace and/or fan coil filter (See Typical Pressure Drop Table).



- 1. Cabinet Top
- 2. Filter Media
- 3. Access Handle
- 4. Access Door
- 5. Cabinet

Figure 1

SPECIFICATIONS

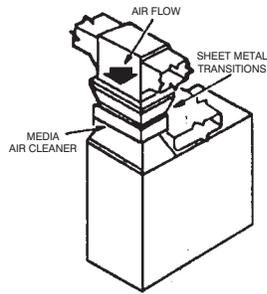


Dimensions		
<i>Model Number</i>	<u>EZXCAB-0016</u>	<u>EZXCAB-0020</u>
<i>Air Flow (CFM) Range</i>	600-1600	600-2000
"A"	16 3/8"	20 3/8"
"B"	13 3/8"	17 3/8"
Replacement Media Filter	3-12 months between changes UL Class 2	

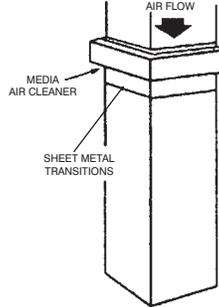
AIR FLOW RESISTANCE

Typical Pressure Drop		
	<i>Model Number</i>	
<i>Air Flow (CFM)</i>	EZXCAB-0016	EZXCAB-0020
	Resistance (In. w.c.)	
600	.04	.03
800	.07	.04
1000	.10	.06
1200	.14	.08
1400	.18	.11
1600	.23	.13
1800	--	.17
2000	--	.18

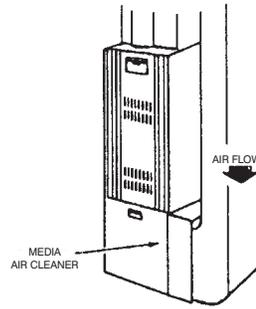
TYPICAL MOUNTING POSITIONS



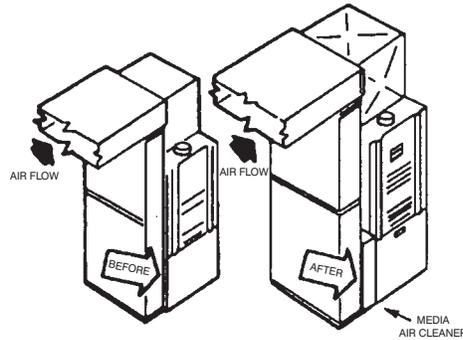
BASEMENT FURNACE (LOWBOY)
Mounted horizontally in return plenum - just above the furnace



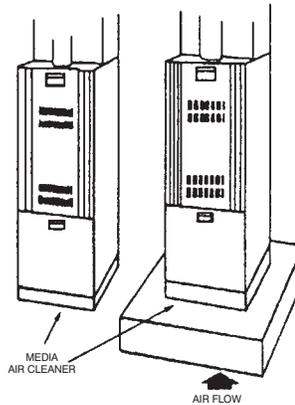
COUNTERFLOW FURNACE
Mounted horizontally in return duct - just above the furnace



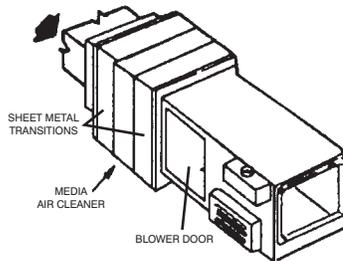
SPACE SAVER FURNACE (HIGHBOY)
Side installation. Cleaner is mounted vertically, where return air enters side inlet of furnace.



OFFSET INSTALLATION
If there is less than 7-in. for mounting the air cleaner between the duct and the furnace, move the return air drop.



SPACE SAVER (HIGHBOY)
Installation beneath furnace. Cleaner mounts horizontally, where return air enters from below. Raise furnace by installing a suitable wood structure and install air cleaner.



HORIZONTAL FURNACE
Mounted vertically in return duct as close to the furnace as possible

APPLICATION

The air cleaners are used in forced air heating, cooling and ventilating systems. The air cleaner should be installed in the system so that all the system air is circulated through the air cleaner. The air cleaner will only remove the airborne contaminants delivered to it. Maximum performance is obtained when the system blower is set for continuous operation.

Installation Requirements

The best location for the air cleaner 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 air duct. Before installing the air cleaner, consider the application. If a transition is required, refer to section entitled **Transitions**. The unit must be readily accessible for periodic inspection and replacement of media cartridge to maintain maximum efficiency and trouble-free operation.

Air Conditioning

The air cleaner should be installed upstream of the cooling coil. This will 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. Failure to replace media can cause damage to cooling system.

Transitions

If the air duct does not fit the air cleaner cabinet opening, gradual transitions are recommended to reduce air turbulence through the air cleaner and maximize efficiency. Not more than 20° (about 4" per running foot) of expansion should be used on each side of the transition fitting (Figure 2).

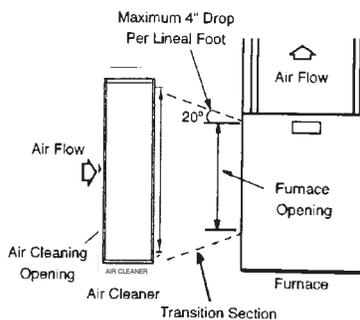


Figure 2 - Transitions

Turning Vanes

If the air cleaner is installed adjacent to a 90° duct elbow, add turning vanes inside the duct to improve the air distribution across the face of the air cleaner (Figure 3).

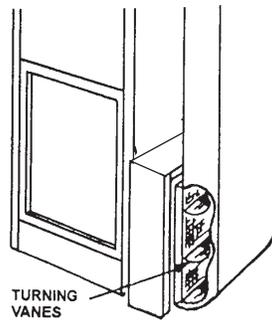


Figure 3 - Turning Vanes

Humidifiers

Location of the system humidifier is important to the operation of the air cleaner. When an evaporative type humidifier is used, it may be installed between the furnace warm air duct and the return air duct without effecting the air cleaner. Atomizing and spray type humidifiers should be installed upstream of the air cleaner.

SELECT LOCATION FOR THE AIR CLEANER

Select a location that is readily accessible for periodic inspection and cleaning. Allow a minimum of 26" in front of the access panel for filter removal. For complete dimensions required, refer to the section entitled **SPECIFICATIONS**.

DIRECTION OF AIR FLOW THROUGH THE AIR CLEANER

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

PHYSICAL INSTALLATION

The air cleaner can be in any position, except with the access door facing down. The section entitled **TYPICAL MOUNTING POSITIONS** (page 5) shows proper air cleaner mounting with a variety of furnace installations.

Prior to installing this product...

1. Read rules and instructions carefully for safe operation. Failure to follow them could damage the product or cause a hazardous condition.
2. Check the ratings given on the product to make sure it is suitable for your application.
3. Remove the old furnace filter and discard.
4. The air cleaner cannot remove existing dirt from the blower and ducts.

NOTE:

The following is a typical installation of the air cleaner on a high boy furnace. You may have to alter the installation to fit your specific application.

5. 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 Figure 2).

6. Mounting holes are provided for simple connection to duct work. The .140" holes are sized for #8 sheet metal screws, or 1/8" 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 filter cartridge during removal and installation (Figure 4).

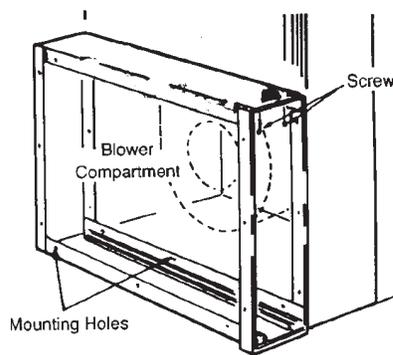


Figure 4

7. Remove media filter cartridge from plastic bag and replace media filter in cabinet.
8. After the unit has been secured, seal seams air tight with duct tape or caulking. Reinstall access door to ensure a tight seal.

HOW TO MAINTAIN YOUR AIR CLEANER

The filter in your air cleaner must be replaced periodically. The frequency of filter replacement is best determined by visual examination. On average, media filters should be replaced every 3-12 months under normal usage.

STEPS FOR REPLACING FILTER

1. Open access door by pulling the handle. Remove door completely.
2. Pull used filter straight out of cabinet and disassemble and discard
3. Remove new filter cartridge from box and assemble..
4. Slide new filter cartridge into cabinet with "AIR-FLOW" arrow pointing in the direction of air flow.
5. Replace door.

Replacement Cartridge Filters For Your Media Air Cleaner

Remember, periodic inspection and annual replacement of your filter will insure high efficiency air cleaning. Contact your HVAC dealer for replacement filter cartridges.

Replacement Filters			
<i>Order Number</i>		<i>EXPXXFIL0016</i>	<i>EXPXXFIL0020</i>
<i>Quantity per Carton</i>		<i>10</i>	<i>10</i>

Warranty

Ten-Year Limited Cabinet Warranty - This Cabinet is warranted to be free from defects in material and workmanship. The Filter Media is not included in this warranty. If Defect with the cabinet only appears within Ten years from the date of original installation, whether or not actual use begins on that date, product is warranted. If product installation criteria meets this standard, a new or remanufactured part, at the manufacturer's sole option, to replace any defective part will be provided without charge for the part itself; PROVIDED the defective part is returned to the distributor through a qualified servicing dealer.

THIS WARRANTY DOES NOT INCLUDE LABOR OR OTHER COSTS - incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts. Such costs may be covered by a separate warranty provided by the installer.

THIS WARRANTY APPLIES ONLY TO PRODUCTS IN THEIR ORIGINAL INSTALLATION LOCATION AND BECOMES VOID UPON REINSTALLATION.

LIMITATIONS OF WARRANTIES – ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE LIMITED WARRANTY IS GIVEN. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON WHATSOEVER.

ALL WORK UNDER THE TERMS OF THIS WARRANTY SHALL BE PERFORMED DURING NORMAL WORKING HOURS. ALL REPLACEMENT PARTS, WHETHER NEW OR REMANUFACTURED, ASSUME AS THEIR WARRANTY PERIOD ONLY THE REMAINING TIME PERIOD OF THIS WARRANTY.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR:

1. Normal maintenance as outlined in the installation and servicing instructions or owners manual including filter cleaning and/or replacement and lubrication.
2. Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
4. Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of the Manufacturer.
5. Parts not supplied or designated by the Manufacturer, or damages resulting from their use.
6. Manufacturer products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
7. Electricity or fuel costs or increases in electricity or fuel costs from any reason whatsoever including additional or unusual use of supplemental electric heat.
8. ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of incidental or consequential damages, so the above may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.