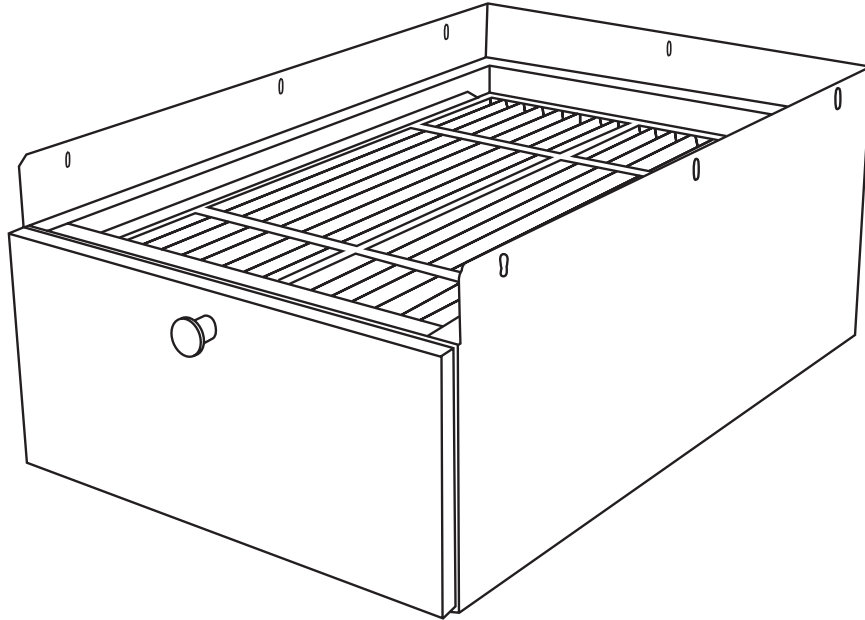


Sizes: 014, 017, 021 & 024

FNCCAB High Efficiency Air Filtration System



C04032

Fig. 1—FNCCAB High Efficiency Air Filtration System

Manual for: Installation, Operation & Maintenance

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

This symbol → indicates a change since the last issue.


TABLE OF CONTENTS

SAFETY CONSIDERATIONS.....	1
INTRODUCTION.....	2
DESCRIPTION AND USAGE.....	2
INSTALLATION.....	5
OWNERS MANUAL SECTION.....	6
REPLACEMENT FILTERS.....	6

SAFETY CONSIDERATIONS

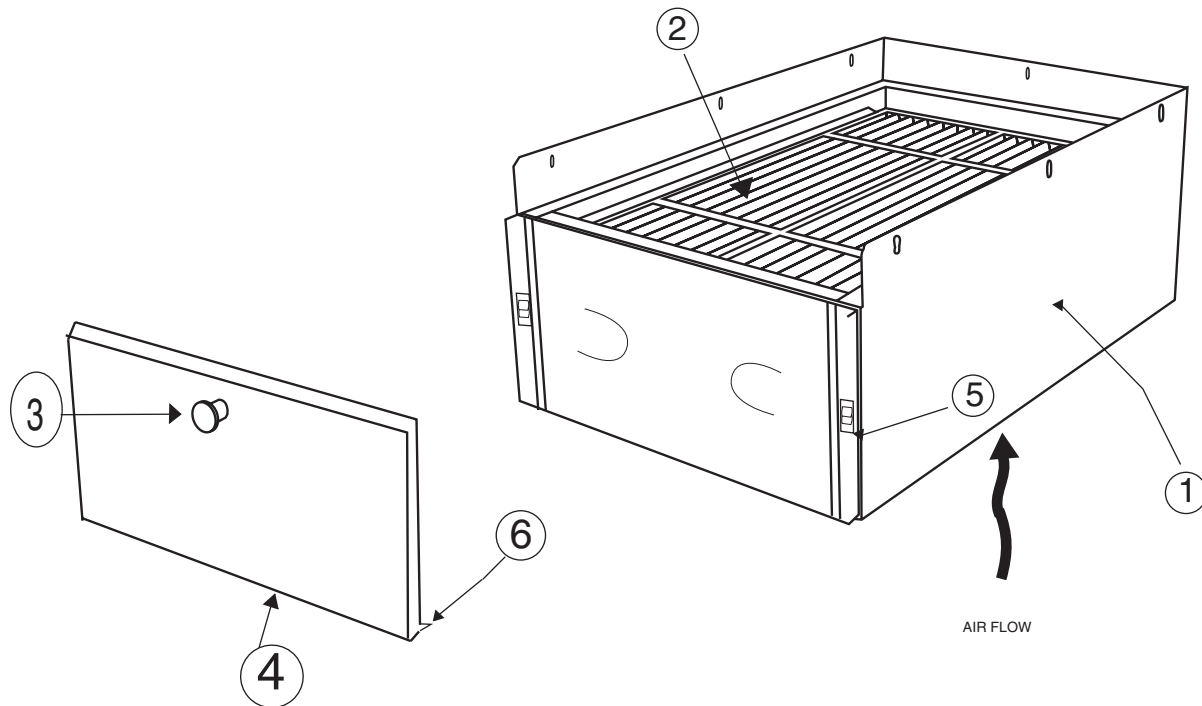
Installing and servicing air conditioning equipment can be hazardous due to system pressures, electrical components, and fuel gases. Only trained and qualified personnel should install, service, or repair air conditioning equipment.

Untrained personnel can perform basic maintenance functions such as cleaning coils, or cleaning and replacing filters. All other operations should be performed by trained service personnel. When working on air conditioning equipment, observe precautions in the literature, on tags, and on labels attached to the unit.

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 a hazard which **could** result in serious 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 that offer installation tips or which **may** result in enhanced installation, reliability, or operation.

Follow all safety codes. Wear safety glasses and work gloves. Have a fire extinguisher available.



C04033

MODELS 014, 017, 021 & 024	PART DESCRIPTION
1	Cabinet
2	Filter
3	Access Handle
4	Access Door
5	Door Latch Hardware
6	Door Alignment Tabs

Fig. 2—FNCCAB Major Components

INTRODUCTION

These instructions cover the installation, operation and maintenance of an FNCCAB High Efficiency Air Filtration System (See Fig. 1).

DESCRIPTION AND USAGE

APPLICATION

This High Efficiency Air Filtration System must be used in a forced air heating, cooling or ventilation system. This High Efficiency Air Filtration System cleaner should be installed in the system so that all the system air is circulated through this air cleaner. The High Efficiency Air Filtration System will only remove the airborne contaminants delivered to it. Maximum performance is obtained when the system blower is set for continuous operation.

INSTALLATION REQUIREMENTS

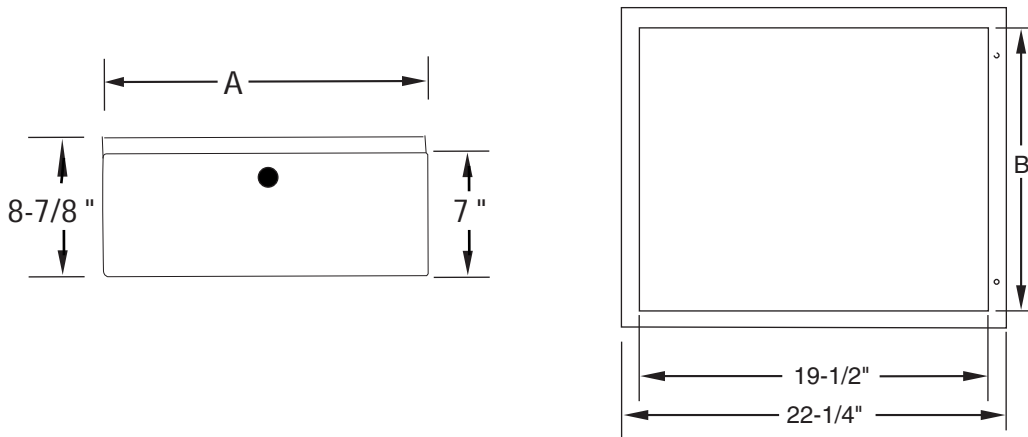
The location for the High Efficiency Air Filtration System is on the return side of the fan coil next to the blower compartment. In this location, both the blower motor and cooling coils will be kept clean. Do not install the air cleaner in the discharge (supply) air duct. The front of this unit must be readily accessible for periodic inspection and replacement of filter to maintain maximum efficiency and trouble-free operation.

SELECT LOCATION FOR THE AIR CLEANER

Select a location that is readily accessible for periodic inspection and cleaning. Allow a minimum of 26 in. in front of the access panel for filter removal and replacement. For complete unit dimensions refer to Fig. 3.

IMPORTANT: Failure to replace filter can cause damage to the system.

This High Efficiency Air cleaner can be mounted in several positions. See Fig. 4 for proper air cleaner mounting with a variety of installation styles.



C04031

MODELS	FNCCAB-0014	FNCCAB-0017	FNCCAB-0021	FNCCAB-0024
Airflow (CFM) Range	600–900	600–1350	600–2000	600–2200
A	14–5/16	17–5/8	21–1/8	24–5/8
B	11	14–11/32	17–7/8	21–11/32

Fig. 3—FNCCAB Major Dimensions (In Inches)

Table 1—FNCCAB Typical Pressure Drop

TYPICAL PRESSURE DROP					
Air Flow (CFM) Range	Model Number	FNCCAB-0014	FNCCAB-0017	FNCCAB-0021	FNCCAB-0024
	Typical Factory Supplied Filter				
Resistance (in. w.c.)					
600	.044	.125	.060	.040	.015
800	.075	.150	.090	.060	.030
1000	.072	.250	.125	.070	.040
1200	.100	—	.180	.090	.060
1400	.092	—	.250	.140	.090
1600	.120	—	—	.187	.125
1800	.152	—	—	.230	.150
2000	.187	—	—	.280	.190
2200	—	—	—	—	.250

⚠ CAUTION: UNIT OPERATION AND SAFETY HAZARD

Failure to follow directions in the instructions may damage the product or cause a hazardous condition. Prior to installing this product you should read these entire instructions and follow all directions.

⚠ CAUTION: CUT HAZARD

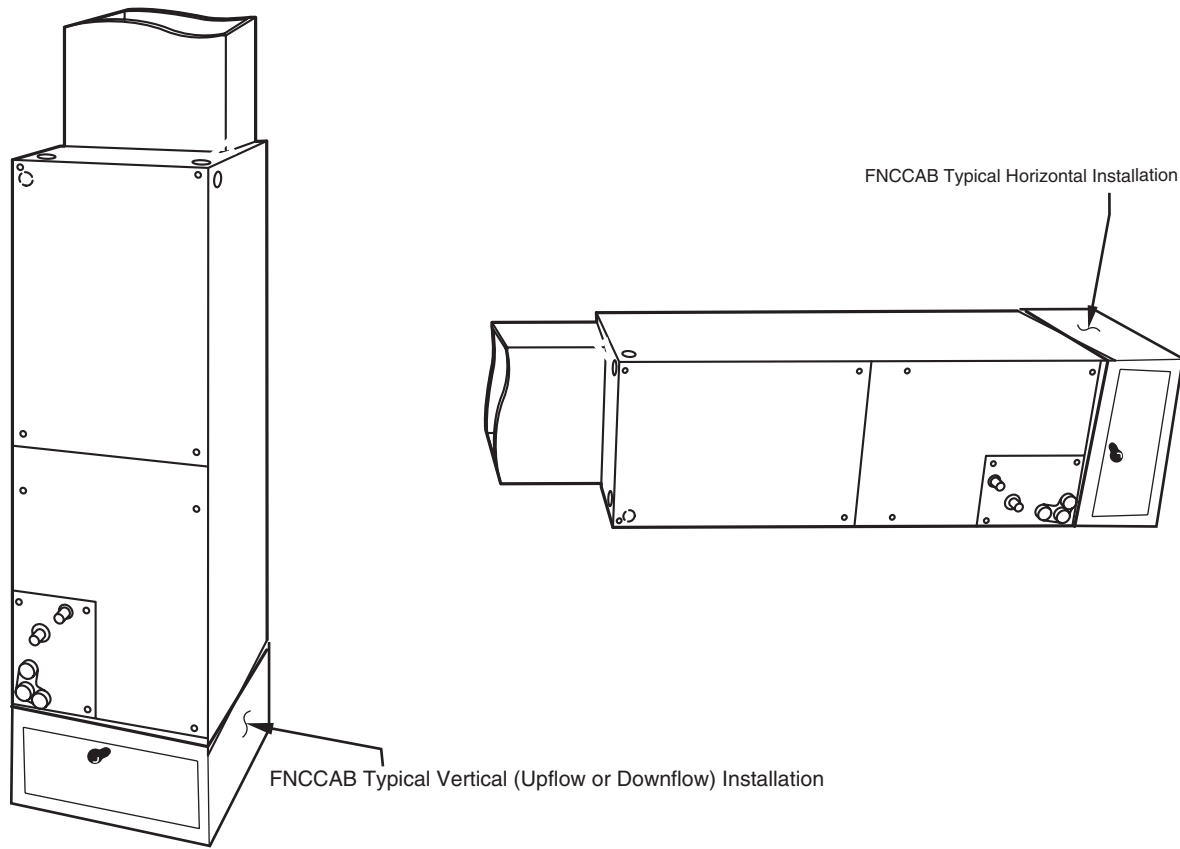
Failure to follow this caution may result in personal injury.

Sheet Metal parts may have sharp edges or burrs. Use care and wear appropriate protective clothing and gloves when handling these parts.

⚠ WARNING: ELECTRICAL SHOCK HAZARD

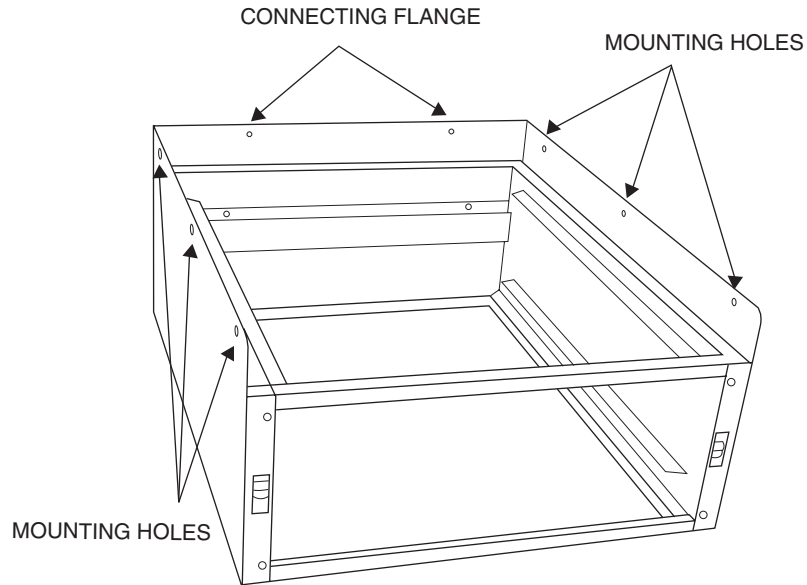
Failure to follow this warning could result in personal injury or death.

Only a trained, experienced service person should install this air cleaner. A thorough checkout of the unit installation should be completed before unit operation. Before performing installation, service or maintenance operations on unit, turn off all power to unit. TAG DISCONNECT SWITCH WITH LOCKOUT TAG.



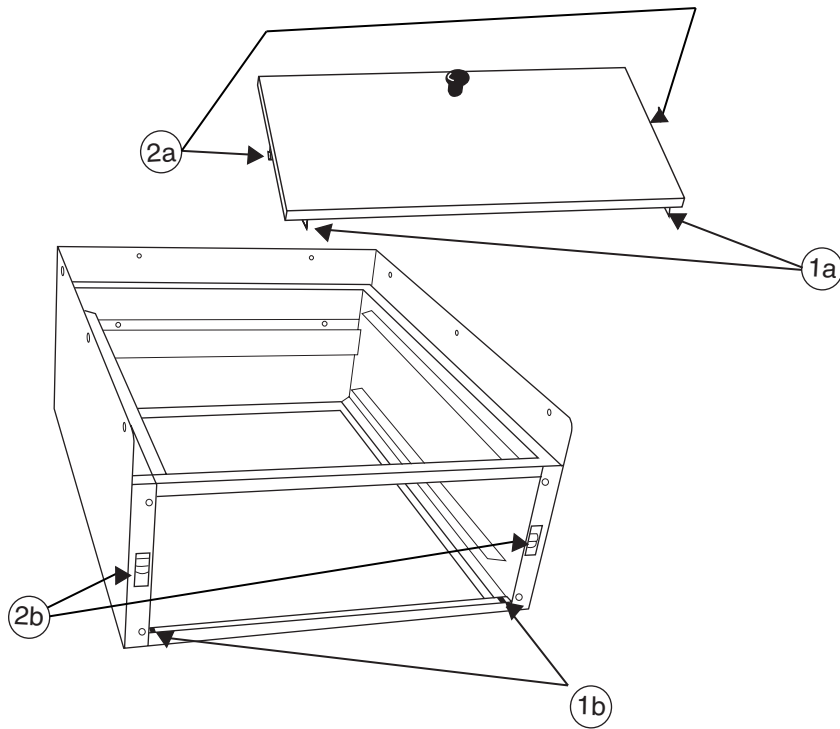
C04029

Fig. 4—Typical Installation



C04034

Fig. 5—Mounting Holes and Mounting Flange



FNCCAB Door Latching Procedure

Step 1-Fully Insert Door Alignment Tabs (1a) into Cabinet Slots (1b)

Step 2-Firmly Pivot Door upward to Capture Door Tabs (2a) into Cabinet Latching Mechanism (2b)

C04035

Fig. 6—Door Assembly Detail View

INSTALLATION

1. Turn off power disconnect and install lockout tag.
2. Check the airflow rating given on this product to make sure it is suitable for your application.
3. Remove the fan coil filter door and the factory supplied 1-in air filter. Discard filter and reinstall filter door.

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. Remove screws from the fan coil edge (return side) and retain for use once FNCCAB is in place.
5. Slide FNCCAB installation connecting flange over fan coil cabinet (return side) edge
6. Mounting holes are provided for simple connection (See Fig. 5) to unit cabinet. The clearance slots/holes are sized for # 10 sheet metal screws or pop 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 during removal and installation.
7. After the cabinet has been secured, use caulk or tape to seal connecting seams airtight to the bottom opening as required.
8. If not already installed, slide filter into mounted FNCCAB.
9. Install access door (See Fig. 6) and ensure a tight seal.

OWNERS MANUAL SECTION

FNCCAB and FNCFIL Maintenance

HOW TO MAINTAIN YOUR AIR CLEANER

The filter media in your cabinet **MUST** be replaced periodically. The frequency of filter replacement is best determined by visual examination. On average, filters of this type should be replaced before each heating and each cooling season under normal usage (or at least yearly under minimum usage).

STEPS FOR REPLACING FILTER

1. Turn off power to blower.
2. Open access door by pulling the handle. Remove door completely.
3. Pull used filter straight out of cabinet and discard.
4. Remove new filter from packaging.
5. Slide new filter into cabinet with *Air-Flow* arrow pointing in the direction of air flow (toward fan coil cabinet).
6. Replace access door (See Fig. 6).

Table 2—Replacement Filter Order Number

REPLACEMENT FILTERS				
Order Number	FILXXFNC0014	FILXXFNC0017	FILXXFNC0021	FILXXFNC0024
Quantity per Carton	1	1	1	1

Replace **XX** in Order Number above with letters in the 4th and 5th space on your used filter for complete replacement order number.

REPLACEMENT FILTERS

REPLACEMENT FILTERS FOR YOUR HIGH EFFICIENCY AIR FILTRATION SYSTEM

Remember, periodic inspection and replacement of your filter will ensure high efficiency air cleaning. Contact your HVAC dealer for replacement Filters (See Table 2).

