

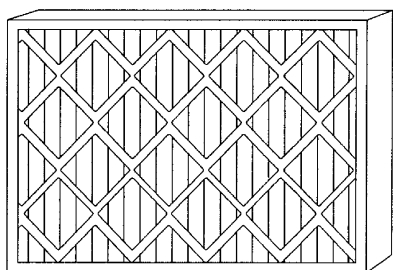
FAIC & AHIC Series Fan Coil Media Cleaner



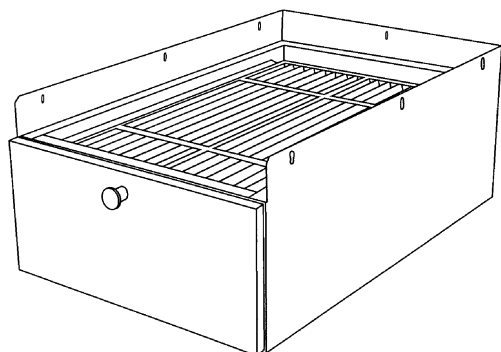
FAIC & AHIC FAN COIL MEDIA CLEANER

The **FAIC/AHIC** Fan Coil Media Filter Cleaner cleans the air of dust, pollen, and smoke which helps keep homes cleaner and fresher longer.

The **FLIC** filter's Minimum Efficiency Reporting Value (MERV) is specified by ASHRAE Standard 52.2. It is based on lab tests to determine the filter's ability to trap particles. MERVs for residential filters will typically be in the range of MERV 1-10. The higher the value, the more efficient the filter. MERV 8 filters have a minimum of 70% particle collection efficiency in the 3-10 micron particle size range. (Human hair is approximately 50-100 microns in diameter.) Each filter reach a MERV 8.



FAIC



AHIC

Representative drawing only, some models may vary in appearance.

AHIC FEATURES:

EASY FILTER ACCESS

- Using the FAIC mechanical air cleaner allows the homeowners easy filter access on their fan coil system. They will no longer have to go inside the fan coil to access or change the filter.

IMPROVED INDOOR AIR QUALITY (IAQ)

- When using the high efficiency FAIC filter, the AHIC media cabinet provides homeowners with improved IAQ.

TROUBLE FREE INSTALLATION

- .No electricity is required.

NEARLY MAINTENANCE FREE OPERATION

- The only maintenance required is replacing the media filter cartridge when needed – before each heating or cooling season or at least once a year, depending on conditions.

FAIC FEATURES:

LARGE DUST HOLDING CAPACITY

- These filters can accommodate between 13 and 25 sq. ft. of filter media into a unique low-pressure drop design – providing some of the largest dust holding capacities available in efficient residential air cleaners today.
- The FAIC has a high dust holding capacity. This increased the time between filter changes.
- .The exceptionally large surface area traps dust, pollen, molds, tobacco smoke, grease, soot, bacteria, and animal dander to provide cleaner, fresher air that is free of airborne pollutants and irritants regardless of the season.

EXCEPTIONAL SYSTEM PERFORMANCE

- For optimum system performance use the AHIC with FAIC high efficiency media.

RESIDENTIAL AND COMMERCIAL SYSTEMS • SPLIT SYSTEMS • PACKAGED AIR CONDITIONERS
• COMBINATION GAS / ELECTRIC UNITS • HEAT PUMPS • AIR HANDLERS • MANUFACTURED
HOME AIR CONDITIONERS • GAS, OIL AND ELECTRIC FURNACES

FAIC PHYSICAL DATA				
MODEL NUMBER	FAIC0014A	FAIC0017A	FAIC0014A	FAIC0017A
Rated Airflow Range	900 CFM	1350 CFM	2000 CFM	2200 CFM
Minimum Efficiency Reporting Value (MERV)	8	8	8	8
Dust Holding Capacity (grams)	68	90	105	130
Atmospheric Dust Spot Efficiency	41	41	41	41
Typical Static Pressure Drop (in. wc.) (Clean@rated airflow)	.20	.23	.28	.25
Filter Media	Polyolefin			
Shipping Weight (2 pack)	5 lb	6 lb	6-1/2 lb	7 lb

PLEATED MEDIA FILTER	EFFICIENCY ¹	
14 in. (FAIC0014A)	MERV 8	E1: 24.4%
		E2: 55.4%
		E3: 70.9%
17 in. (FAIC0017A)		E1: 24.4%
		E2: 55.4%
		E3: 70.9%
21 in. (FAIC0021A)		E1: 24.4%
		E2: 55.4%
		E3: 70.9%
24 in. (FAIC0024A)		E1: 24.4%
		E2: 55.4%
		E3: 70.9%

Notes:

1. Minimum Efficiency Reporting Value (MERV) per ASHRAE 52.2 (Exceeds proposed ASHRAE 62.2p requirement for manufacturers to provide a filter with a MERV rating of at least 6.)

E1: MINIMUM Average Efficiency for particles sized between 0.3 and 1 micron.

E2: MINIMUM Average Efficiency for particles sized between 1 and 3 microns.

E3: MINIMUM Average Efficiency for particles sized between 3 and 10 microns.

2. At 0.5-in. pressure drop and 500FPM per ASHRAE 52.1.

REPLACEMENT FAIC FILTERS		
MODEL NUMBER	Media Area (Gross)	Dimensions (in.) Tolerance +/-0.125"
FAIC0014A	13.05 sq. ft.	19.8125 x 12.175 x 4.3125
FAIC0017A	17.8 sq. ft.	19.8125 x 15.625 x 4.3125
FAIC0021A	20.17 sq. ft.	19.8125 x 19.125 x 4.3125
FAIC0024A	24.9 sq. ft.	19.8125 x 22.625 x 4.3125

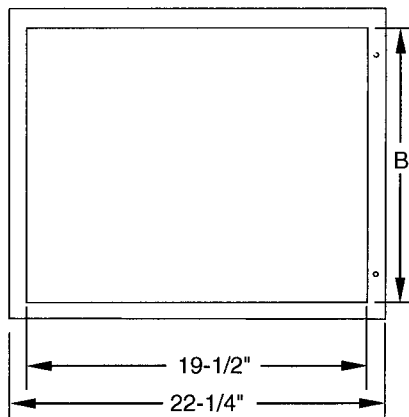
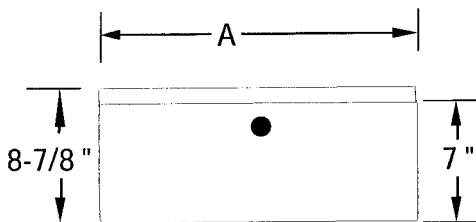
PRESSURE DROP AT VARIOUS AIRFLOWS (CLEAN)					
SIZE	Typical Factory Supplied Filter	FAIC0014A	FAIC0017A	FAIC0021A	FAIC0024A
Airflow (CFM)	Resistance (inches of water) (Clean Filter)*				
600	.044	.125	.060	.040	.015
800	.075	.150	.090	.060	.030
1000	.072	.250	.125	.070	.040
1200	.100	-	.180	.090	.060
1400	.092	-	.250	.140	.090
1600	.120	-	-	.187	.125
1800	.152	-	-	.230	.150
2000	.187	-	-	.280	.190
2200	-	-	-	-	.250

* Pressure drop tested with complete AHIC cabinet and FAIC filter.

MODEL NUMBER IDENTIFICATION GUIDE

MODEL NUMBER	AHIC	0	014	A	
PRODUCT FAMILY					Series
AHIC = Fan Coil Media Cabinet FAIC = Fan Coil Media Filter Cartridge					CFM
NO VOLTAGE					014 = 900, 017 = 1350 021 = 2000, 024 = 2200

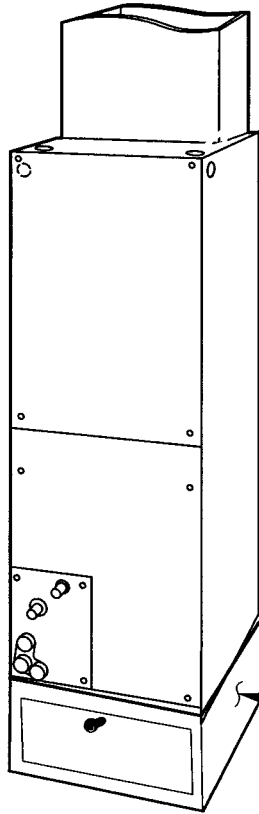
AHIC DIMENSIONS



Media Filter Cabinet	Opening A	Opening B
AHIC0014A	14-5/16"	11"
AHIC0017A	17-5/8"	14-11/32"
AHIC0021A	21-1/8"	17-7/8"
AHIC0024A	24-5/8"	21-11/32"

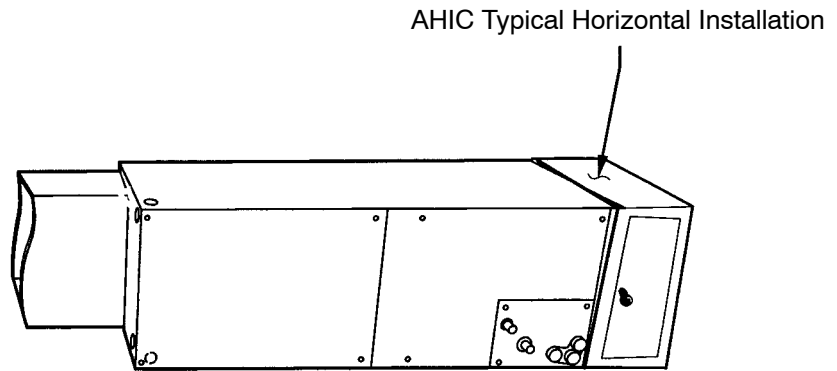
NOTES:

Typical Installations

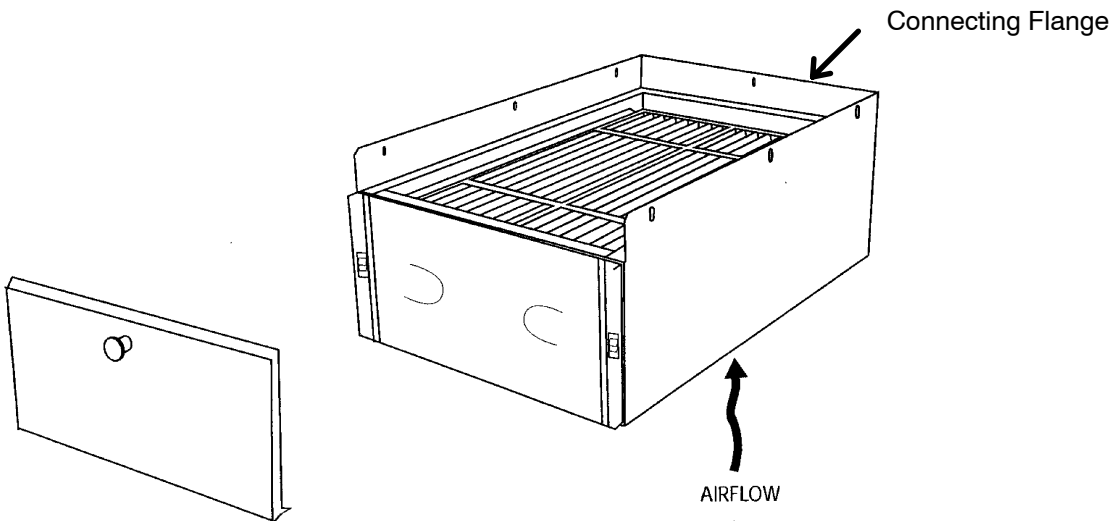


Typical Vertical Upflow Installation

AHIC can also be configured in a Vertical Downflow Installation. Fan Coil Unit must be reconfigured so the air cleaner is on the return side of the fan coil and blower compartment.



AHIC Typical Horizontal Installation



Connecting Flange

AIRFLOW