FNCCAB and FILXUMC
High Efficiency Fan Coil Filtration
Sizes 14, 17, 21 and 24

Product Data

A10045C

Model FNCCAB

The FNCCAB Mechanical Air Cleaner cleans the air of dust, pollen, and smoke which helps keep homes cleaner and fresher longer.

FEATURES/BENEFITS

EASY FILTER ACCESS

Using the FNCCAB air cleaner allows 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.

INSULATED CABINET

R4.2 insulation.

IMPROVED INDOOR FILXXFNC AIR QUALITY (IAQ)

For enhanced IAQ solutions, the FILXUMC filters included in the FNCCAB media cabinets provide air cleaning efficiency options of MERV 8, MERV 11, or MERV 13.

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 twice a year, depending on conditions.

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Filter Cabinet (FNCCAB)

Table 1 – Filter Cabinet (FNCCAB) Model Number Nomenclature

1	2	3	4	5	6	7	8	9	10	11	12
F	**N**	**C**	**C**	**A**	**B**	**X**	**X**	**0**	**0**	**1**	**4**

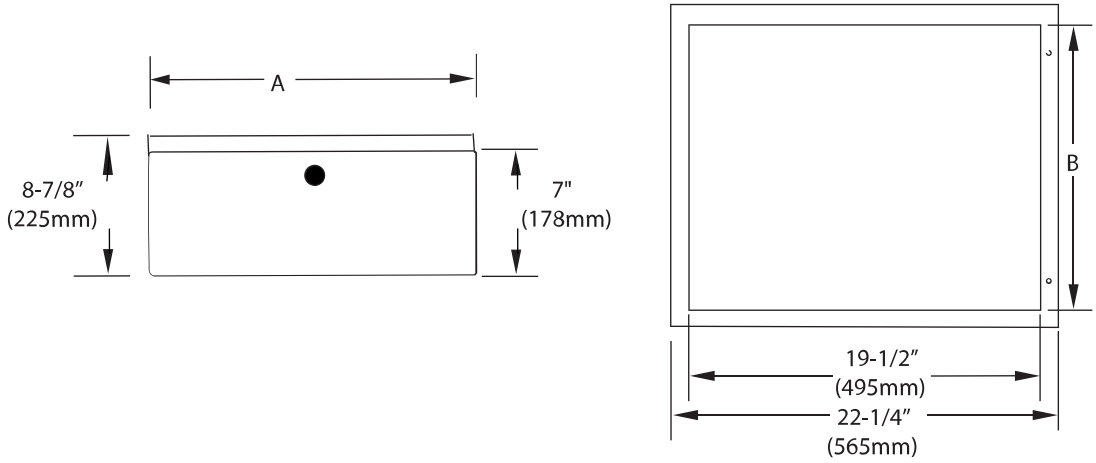
Product Type
Fan Coil Filter Cabinet

Brand
Carrier

MERV
00 - MERV 8
01 - MERV 11
03 - MERV 13

Size
14
17
21
24

DIMENSIONS & WEIGHTS



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MODELS	FNCCABXX0014 FNCCABXX0114 FNCCABXX0314	FNCCABXX0017 FNCCABXX0117 FNCCABXX0317	FNCCABXX0021 FNCCABXX0121 FNCCABXX0321	FNCCABXX0024 FNCCABXX0124 FNCCABXX0324
Airflow (CFM) Range	600-900	600-1350	600-2000	600-2200
A	14-5/16" (364mm)	17-5/8" (448mm)	21-1/8" (537mm)	24-5/8" (625mm)
B	11" (279mm)	14-11/32" (364mm)	17-7/8" (454mm)	21-11/32" (542mm)
Shipping Weight	17 lb (7.7 kg)	17 lb–9 oz (8 kg)	19 lb–8 oz (8.8 kg)	23 lb (10.4 kg)

Fan Coil Filter (FILXUMC)

Table 2 – Fan Coil Filter (FILXUMC) Model Number Nomenclature

1	2	3	4	5	6	7	8	9	10	11	12	13
F	**I**	**L**	**X**	**U**	**M**	**C**	**1**	**3**	**1**	**6**	**2**	**0**

Product Type
Media Filter

Brand
X = Non-Branded

Type
UMC = Universal Media Cabinet Filter

MERV
08 - MERV 8
11 - MERV 11
13 - MERV 13

Size (approx)
1220 = 12 x 20
1620 = 16 x 20
2020 = 20 x 20
2320 = 23 x 20

Model FILXUMC

This 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 to MERV 13: the higher the value, the more efficient the filter.

Collection efficiency is measured in the 3-10 micron particle size range. (For comparison, a human hair is approximately 50-100 microns in diameter.)

Minimum Collection Efficiency of FILXUMC filters:

- MERV 8 = 70%
- MERV 11 = 85%
- MERV 13 = 90%

FEATURES/BENEFITS

Extended surface 4-1/8" filter with a design that is optimized for low static pressure and high dust holding capacity.

- Perfect fit filter has an exact fit with the cabinet. Does not contain foam, sponge or fiberglass filler, which means most of the air is passing through the filter and not through filler material, thereby maximizing the system's ability to clean the air.
- User-friendly, easy-to-change filter cartridge means no fussing with complicated combs or brackets.
- Filter lasts up to one year in standard applications.

Exceptional System Performance

For optimum system performance use the FNCCAB cabinet with Carrier FILXUMC high efficiency media filters designed especially for Carrier furnaces.

Table 3 – Replacement Filters

REPLACEMENT FILTERS ORDER NUMBER				
	12 x 20	**16 x 20**	**20 x 20**	**23 x 20**
MERV 8	FILXUMC081220	FILXUMC081620	FILXUMC082020	FILXUMC082320
MERV 11	FILXUMC111220	FILXUMC111620	FILXUMC112020	FILXUMC112320
MERV 13	FILXUMC131220	FILXUMC131620	FILXUMC132020	FILXUMC132320
Quantity per Carton	3	3	3	3

Table 4 – Replacement Filter Dimensions

PRODUCT NUMBER	DIMENSIONS, L x W x H, In. (mm) — H ± 0.0625" (1.6 mm)
FILXUMC081220 / FILXUMC111220 / FILXUMC131220	12.175 x 19.8125 x 4.125 (503.2 x 309.2 x 104.8)
FILXUMC081620 / FILXUMC111620 / FILXUMC131620	15.625 x 19.8125 x 4.125 (503.2 x 396.8 x 104.8)
FILXUMC082020 / FILXUMC112020 / FILXUMC132020	19.125 x 19.8125 x 4.125 (503.2 x 485.7 x 104.8)
FILXUMC082320 / FILXUMC112320 / FILXUMC132320	22.625 x 19.8125 x 4.125 (503.2 x 574.6 x 104.8)

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Fan Coil Filter (FILXUMC) - cont.

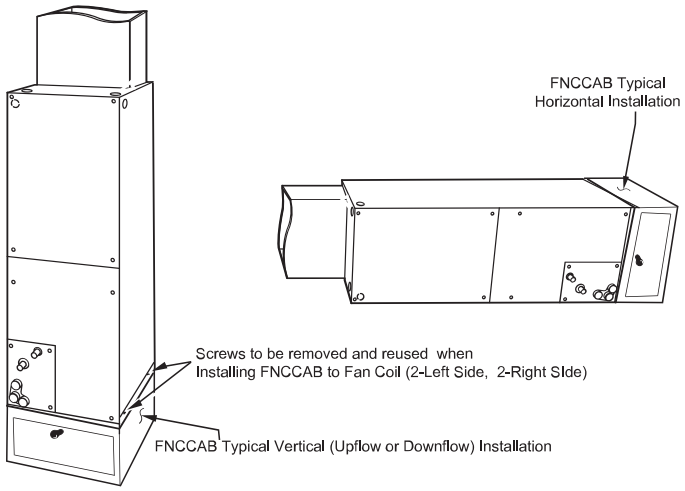
Table 5 – Minimum Filter Efficiency				
	E1	E2	E3	MERV
FILXUMC08** All Sizes	–	≥20%	≥70%	8
FILXUMC11** All Sizes	≥20%	≥65%	≥85%	11
FILXUMC13** All Sizes	≥50%	≥85%	≥90%	13

NOTES:
Minimum Efficiency Reporting Value (MERV) per ASHRAE 52.2
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.

Table 6 – Pressure Drop at Various Airflows (clean)

TYPICAL PRESSURE DROP												
Airflow Range (CFM)	Resistance (in. w.c.)											
	Filter Size / MERV											
	1220			1620			2020			2320		
	MERV8	MERV11	MERV13	MERV8	MERV11	MERV13	MERV8	MERV11	MERV13	MERV8	MERV11	MERV13
600	0.13	0.16	0.19	0.07	0.07	0.10	0.06	0.07	0.09	0.05	0.05	0.08
800	0.20	0.26	0.29	0.11	0.11	0.15	0.10	0.10	0.14	0.07	0.08	0.12
1000	0.29	0.38	0.40	0.16	0.16	0.20	0.14	0.15	0.19	0.10	0.11	0.16
1200				0.22	0.22	0.27	0.18	0.20	0.25	0.14	0.15	0.21
1400				0.28	0.28	0.34	0.24	0.27	0.32	0.18	0.19	0.26
1600							0.30	0.34	0.39	0.22	0.24	0.32
1800							0.36	0.41	0.47	0.27	0.30	0.38
2000										0.32	0.36	0.44

TYPICAL INSTALLATIONS



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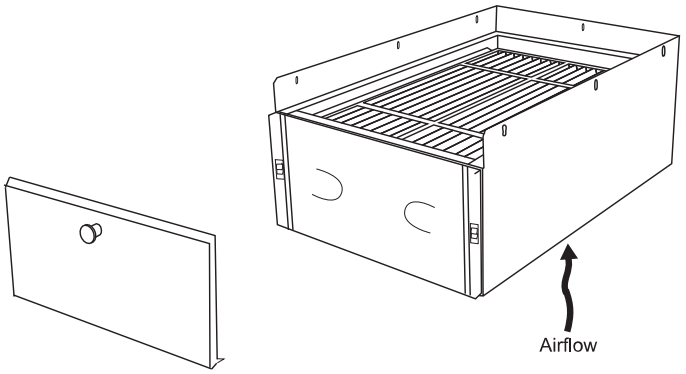

Install FILXUMC Media Filter Cartridge in the FNCCAB Media Filter Cabinet.

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