

FILXXRGF
Return Grille Filter
Sizes 1224, 1425, 1620, 1625, 2020, 2025, 2030, 2424

Product Data



High performance return grille filters provide air filtration equivalent to typical 4-in (102 mm) media filters in a 1-in (25 mm) return grille space. These filters offer MERV 11 performance, providing superior filtration, cleaner indoor air, reduced levels of dust and other airborne contaminants, and enhanced system performance.

FEATURES / BENEFITS

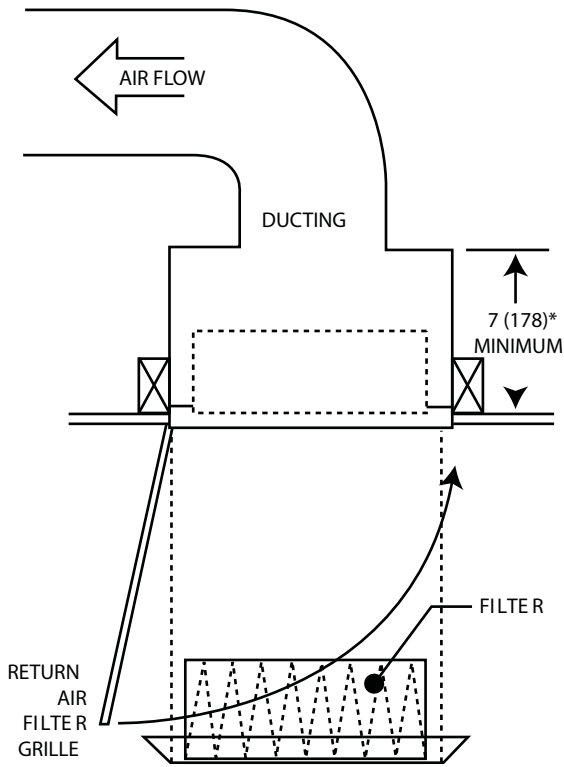
Easy Installation and Fit — The unique header design makes the filter easy to install in most 1-in (25 mm) filter grilles. The header rests securely into the frame, and the cartridge extends beyond the frame. Return grille filters come in the eight most common sizes of filter grilles to provide a product that can be used in many applications, whether the grille is mounted in the ceiling or in the wall.

Performance and Efficiency — With MERV 11 efficiency, the filter will capture up to 80% of particles down to 1.0 microns, including many types of household dust, pollens, spores, mold, allergens, and bacteria. Holding capacity compared to one-inch filters is greatly enhanced with nine square feet of actual filter media per one square foot of filter face. This extends the life of the filter considerably over standard filters without sacrificing airflow due to increased pressure drop.

MODEL NUMBER NOMENCLATURE

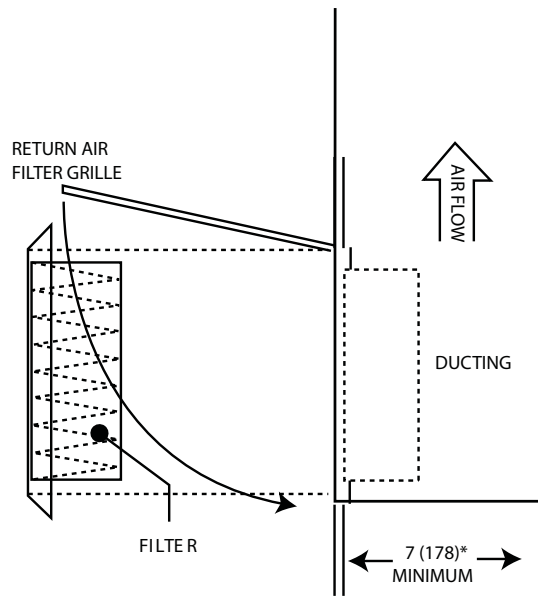
1-3	4,5	6-8	9-12	13-16
FIL	XX	RGF	1223	-A02
Media Filter	Non-brand Specific	Return Grille Filter	Nominal Size	Package Quantity
			12 X 24	
			14 x 25	
			16 x 20	
			16 x 25	
			20 x 20	
			20 x 25	
			20 x 30	
			24 x 24	

FILXXRGF



Typical Ceiling Installation

A08198



Typical Wall Mount Installation

A08199

* The 7" (178 mm) distance requirement allows for lower pressure drop and more airflow.

DIMENSIONS

SIZE inches (mm)	MODEL	DIMENSIONS inches (mm)*	HEADER WIDTH inches (mm)	SHIPPING DIMENSIONS 2-pack box inches (mm)
12 x 24 (305 x 610)	FILXXRGF1224	10.5 x 22.5 x 4.5 (267 x 572 x 114)	0.75 (19)	17 x 26.25 x 9.75 (432 x 679 x 248)
14 x 25 (356 x 635)	FILXXRGF1425	12.5 x 23.5 x 4.5 (318 x 597 x 114)	0.75 (19)	17 x 26.25 x 9.75 (432 x 679 x 248)
16 x 20 (406 x 508)	FILXXRGF1620	14.5 x 18.5 x 4.5 (368 x 470 x 114)	0.75 (19)	21 x 26.25 x 9.75 (533 x 679 x 248)
16 x 25 (406 x 635)	FILXXRGF1625	14.5 x 23.5 x 4.5 (368 x 597 x 114)	0.75 (19)	21 x 26.25 x 9.75 (533 x 679 x 248)
20 x 20 (508 x 508)	FILXXRGF2020	18.5 x 18.5 x 4.5 (470 x 470 x 114)	0.75 (19)	25 x 26.25 x 9.75 (635 x 679 x 248)
20 x 25 (508 x 635)	FILXXRGF2025	18.5 x 23.5 x 4.5 (470 x 597 x 114)	0.75 (19)	25 x 26.25 x 9.75 (635 x 679 x 248)
20 x 30 (508 x 762)	FILXXRGF2030	18.5 x 28.5 x 4.5 (470 x 724 x 114)	0.75 (19)	31 x 21 x 9.75 (787 x 533 x 248)
24 x 24 (610 x 610)	FILXXRGF2424	22.5 x 22.5 x 4.5 (572 x 572 x 114)	0.75 (19)	25 x 26.25 x 9.75 (635 x 667 x 248)

DIRECT REPLACEMENT

SIZE inches (mm)	HONEYWELL PART NUMBER	REPLACE WITH PART NUMBER
12 x 24 (305 x 610)	FC40R1037	FILXXRGF1224
14 x 25 (356 x 635)	FC40R1045	FILXXRGF1425
16 x 20 (406 x 508)	FC40R1052	FILXXRGF1620
16 x 25 (406 x 635)	FC40R1060	FILXXRGF1625
20 x 20 (508 x 508)	FC40R1003	FILXXRGF2020
20 x 25 (508 x 635)	FC40R1011	FILXXRGF2025
20 x 30 (508 x 762)	FC40R1029	FILXXRGF2030
24 x 24 (610 x 610)	FC40R1078	FILXXRGF2424

PRESSURE DROP

AIRFLOW CFM (lps)	FILXXRGF PRESSURE DROP in. w.c. (pascals)							
	1224	1425	1620	1625	2020	2025	2030	2424
600 (283)	0.22 (55)	0.09 (22)	0.15 (37)	0.06 (15)	0.085 (21)	0.035 (9)	0.03 (7)	0.035 (9)
800 (378)	0.34 (85)	0.15 (37)	0.2 (50)	0.09 (22)	0.13 (32)	0.06 (15)	0.05 (12)	0.06 (15)
1000 (472)	–	0.22 (55)	0.3 (75)	0.14 (35)	0.175 (44)	0.075 (19)	0.07 (17)	0.075 (19)
1200 (566)	–	0.3 (75)	–	0.2 (50)	0.24 (60)	0.1 (25)	0.09 (22)	0.1 (25)
1400 (661)	–	–	–	0.25 (62)	0.31 (77)	0.13 (32)	0.12 (30)	0.13 (32)
1600 (755)	–	–	–	–	–	0.175 (44)	0.15 (37)	0.17 (42)
1800 (850)	–	–	–	–	–	0.21 (52)	0.18 45	0.2 (50)
2000 (944)	–	–	–	–	–	0.26 (65)	0.22 (55)	0.24 (60)
2200 (1038)	–	–	–	–	–	–	–	–

NOTES:

1. When applying the return grille filter, attention must be given to the duct and system design because all these components affect system static pressure. The return grille filter has a higher static pressure drop than the typical factory supplied furnace and/or fan coil filter (as shown above), but is designed to ensure proper system efficiency and reliability when applied to a properly designed duct system and properly sized HVAC equipment.
2. When sizing returns, use the largest return grille and largest connecting duct as practical to lower return static pressure and increase filter life.
3. Use multiple returns to increase air circulation throughout the dwelling.

PHYSICAL DATA

FILXXRGF								
	1224	1425	1620	1625	2020	2025	2030	2424
RATED AIRFLOW, CFM (lps)	600 (283)	1000 (471)	915 (431)	1165 (549)	1170 (551)	1485 (699)	1800 (848)	1730 (815)
MERV	11	11	11	11	11	11	11	11
TYPICAL STATIC PRESSURE DROP clean @ rated airflow, in. w.c. (pascals)	0.22" (62)	0.22" (62)	0.25" (62)	0.19" (62)	0.23" (62)	0.15" (62)	0.18" (62)	0.18" (62)
FILTER MEDIA	Spunbound fibers, approx. 50% polyethylene, 50% polypropylene, with tin plate support mesh							
FILTER AREA sq. ft. (sq. m)	18 (1.67)	21.8 (2.03)	20 (1.86)	25 (2.33)	26 (2.42)	33.7 (3.13)	37.5 (3.49)	36 (3.35)
NUMBER OF PLEATS	12	14	16	16	21	27	30	24
SHIPPING WEIGHT 2–pack, lbs. (kg)	7 (3.2)	7 (3.2)	7 (3.2)	8 (3.6)	9 (4.1)	10 (4.5)	10 (4.5)	9 (4.1)

NOTE:

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 11 filters have a minimum of 85% particle collection efficiency in the .3–.10 micron particle size range. (Human hair is approximately 50–100 microns in diameter.)