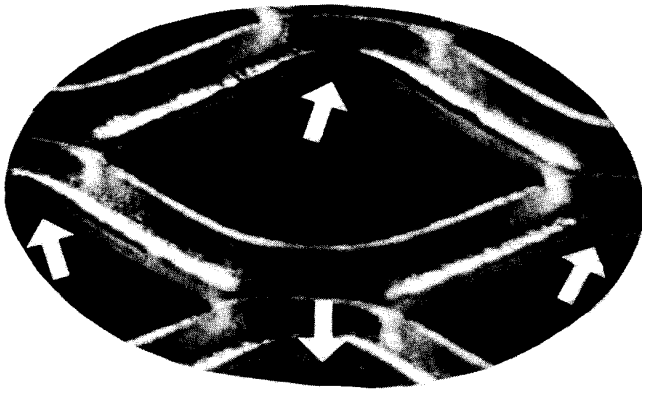
ALUMINUM FILTERS

MEDIUM WEIGHT

PERFORMANCE, DURABILITY AND CLEANABILITY IN ONE GREAT FILTER



These precision-made, thoroughly tested files exceed the test requirement of Federal Specification ASTM F872. Applications include automatic heating, ventilating and air conditioning systems in schools, hospitals, hotels, commercial and industrial buildings.

CONSTRUCTION - The F.M.I. Medium Weight Aluminum filter shall be processed from sheet Aluminum, no less than .025 in thickness expanded to .031 strand. The material is expanded in a special pattern of various densities of 3/32" x 5/16" x 1". The filtering element shall consist of not less than seven layers of this media, and assembled so that each layer shall lay at right angles with the preceding layer. Each layer of media shall be corrugated from 1/4" to 3/8" to provide maximum dust holding capacity. The filtering element shall be framed in a formed aluminum channel, not less than .037 thickness. Frame shall be secured so that the face is smooth and free of projections. Holes shall be punched on one side of frame to facilitate drainage after cleaning. Handles on frame are optional.

Filter shall retain 571 grams of dust per 2.25 sq. feet of filter area. Resistance when clean is .077 wg at 350 FPM air velocity.

Designed to be used in heating, air conditioning and makeup air systems where a sturdy filter is needed. This filter can also be used in light grease, "low heat" applications.

The F.M.I. Medium Weight Aluminum Filter is comprised of seven crossed layers of corrugated aluminum mesh of various graduations and densities. The patented design of the filtering element causes the air to constantly change direction when passing through the filter, thus extracting, trapping and retaining dust particles, pollen and other foreign materials in the process. Corrugation of the media reduces face loading and provides greater dust holding capacity. The layers of mesh are encased in a heavy aluminum frame, secured with rivets to assure long-term service.

AIR DELIVERY DATA CHART

Net Face Velocity F.P.M.	Resistance in Inches of W.G. nominal thickness		C.F.M. Capacity by Size					
	1 Inch	2 Inch	10x20	16x20	16x25	20x20	20x25	24x24
267	.041	.032	282	467	597	600	768	897
356	.072	.061	376	623	796	800	1024	1197
445	.120	.090	469	779	995	1000	1279	1496
533	.180	.137	562	933	1192	1200	1532	1791
622	.256	.200	656	1089	1391	1400	1788	2091
711	.329	.263	750	1244	1590	1600	2044	2390
800	.410	.340	844	1400	1789	1800	2300	2689
889	---	.413	938	1556	1988	2000	2556	2988
978	---	.510	1032	1712	2187	2200	2812	3287

STOCK SIZES –The Medium Weight Aluminum filter comes in a wide variety of stock sizes. Actual size of "Stock Filters" are 1/2" under in length and width, 1/8" under in depth. (Example: 20x20x2 is actually 19 1/2 x 19 1/2 x 1 7/8).

CLEANABILITY - Regardless of dust conditions, filters shall be quickly and effectively cleaned with steam or hot water applied with a pressure hose. For best results, do not use a strong Alkali Solution when cleaning any Aluminum Filter.

SPECIAL SIZES - Filter can be custom made to fit odd size applications. In ordering sizes other than those shown above, state exact size required in length, width and thickness. Also available in 3" and 4" thicknesses. Special sizes can not be returned for credit.

MAXIMUM TEMPERATURE RANGE IS 250 DEGREES F.