

# STAINLESS STEEL 304 FILTERS

WHEN REQUIREMENTS CALL FOR EXTRA PERFORMANCE

The F.M.I. STAINLESS STEEL filter is made from heavy Stainless Steel and is ideal for extreme heat situations in both Air and Grease filtration applications (UL Approved for Air Only). This filter can withstand chemicals that a normal filter can't. The perfect solution for those hard to filter applications, for example, chemical plants, high temperature areas in factories and machinery. Depending upon Federal requirements, these filters can be used in some grease hoods, above a charcoal grill or other extremely hot cooking units or in applications where quality and long life is required.

**CONSTRUCTION** - The filtering element shall be processed from Stainless Steel sheet, expanded to .032 strand. The filtering media shall consist of no less than 7 layers of corrugated Stainless Steel, expanded through specified feeds to assure maximum filtering and internal loading capabilities. The Frame shall be one piece, formed Stainless Steel channel, made from type 304 Stainless Steel, not less than .024 thickness. The filter element will be joined with Stainless Steel Rivets. Holes will be punched on one side to allow for proper drainage after cleaning and when used in a grease filter application.

Filters shall retain 240 grams of grease or 300 grams of dust per 2.25 sq. ft. (20 x 20 filter). Resistance when clean is .075 w.g. at 350 FPM air velocity.

The STAINLESS STEEL Mesh filter is designed for applications that require the utmost in filtering ability. Stainless Steel will withstand extreme heat and corrosive solutions that both Aluminum and Galvanized Steel filters can not handle.

**MAXIMUM TEMPERATURE  
RANGE ON THE  
STAINLESS STEEL MESH FILTER  
IS 900 DEGREES F.**

With its patented EXTRA-HEAVY media and frame, this filter allows for a cleaner exhaust, free from grease and dust particles. This allows for a longer fan or motor life, depending upon the application this element is used in for filtering. As a Grease filter, the STAINLESS STEEL filter has a deeper grease penetration, and a greater loading capacity over most of the competitors filters.

**HANDLES** - Stainless Steel handles are available to be sold separately, or to be installed on the STAINLESS STEEL Filter at a small additional cost. The three types of handles available are: Bale, Rigid and Lock Type. Each facilitate filter removal and replacement. When ordering handles, please specify location required on the frame.

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	.057	.030	282	467	597	600	768	897
356	.100	.057	376	623	796	800	1024	1197
445	.158	.087	469	779	995	1000	1279	1496
533	.240	.128	562	933	1192	1200	1532	1791
622	.340	.190	656	1089	1391	1400	1788	2091
711	.447	.244	750	1244	1590	1600	2044	2390
800	.570	.305	844	1400	1789	1800	2300	2689
889	.700	.379	938	1556	1988	2000	2556	2988
978	---	.466	1032	1712	2187	2200	2812	3287

**STOCK SIZES** - The STAINLESS STEEL Mesh filter is available in the standard sizes including 1" and 2" thicknesses in the following: 16x20, 16x25, 20x20, 20x25, and 24x24. 10x20x2 and 12x24x2 are also available. Actual dimensions on all these sizes are 1/2" under on both length and width, and 1/8" under on thickness.

**SPECIAL SIZES** - F.M.I. is capable of making practically every size needed for special applications. When ordering sizes other than those shown in the price book, state exact length, width and thickness. Filters also available in depths greater than 2".

**CLEANING** - Because of the Stainless material, these filters will withstand the strongest of cleaning solutions, without the risk of rust or corrosion, holding up through numerous cleanings.