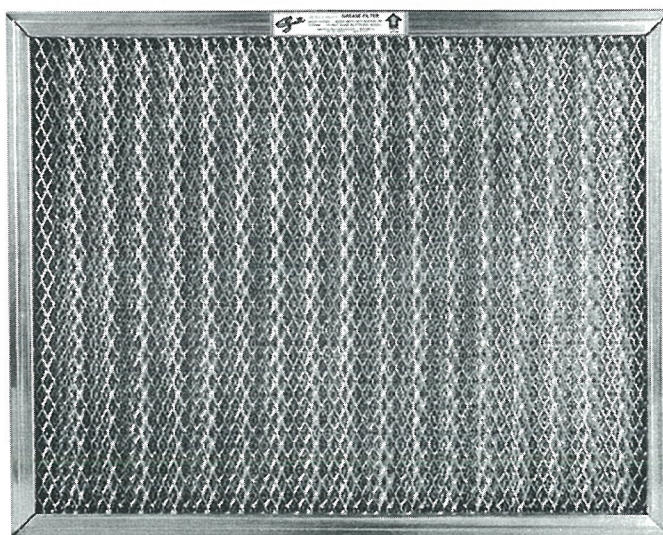


# SMITH

## HEAVY-DUTY FILTER



Eight layers of expanded Aluminum mesh, surrounded by a heavy Aluminum Frame make up the:

**Smith Heavy-Duty Filter**

A rugged filter, this air filter is designed for the tough jobs that require a heavy, long lasting Aluminum filter.

### SMITH

FILTER CORPORATION

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# HEAVY-DUTY FILTER

## FOR RUGGED USE

Made from heavy "rust proof" Aluminum, these mesh filters are designed for the tougher jobs. Thoroughly tested, these filters surpass the requirements of Federal Specifications ASTM F872. Designed with an extra layer of bold corrugation to protect the finer layers behind, these filters can stand up to the hard handling some other lighter filters can't. Applications include air handling units, both heating and cooling in a wide range of manufacturing plants as well as office buildings. The Smith HEAVY-DUTY Filter can also be used in grease applications where allowed by state regulations.

**CONSTRUCTION** - The Smith HEAVY-DUTY Filter shall be processed from sheet Aluminum, commercially known as 3003-H14, .025 thickness, expanded from .031 to .050 strand. Filter shall consist of not less than eight layers of expanded aluminum, including a face layer expanded at .050 strand. Assembled in a way that each layer shall be at right angles with the preceding layer. Each layer of expanded will be corrugated between 1/4" to 3/8" to provide maximum dust holding capacity. The HEAVY-DUTY Filter shall be framed in a formed aluminum channel not less than .040 thickness. Holes shall be punched on one side of frame to facilitate drainage after cleaning. Handles on frame are optional.

Filter shall retain 585 grams of dust or 80 grams of grease per 2.25 sq. feet (20 x 20 filter) of area. Resistance when clean is .077 wg at 350 FPM air velocity.

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	

**The HEAVY-DUTY Aluminum filter is a unique designed filter that captures large amounts of grease and dust from the air stream.**

The Smith HEAVY-DUTY FILTER is comprised of eight 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. This allows a large amount of dust and grease to be retained in the filter element. 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.

Handles are available upon request to allow for easy installation and removal of the Smith HEAVY-DUTY.

**STOCK SIZES** - The Smith LIFETIME 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).

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

**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. A light spray of Smith FILTER SPRAY applied to the face of the filter after cleaning is recommended for increased efficiency.

**MAXIMUM TEMPERATURE  
RANGE ON THE  
HEAVY-DUTY FILTER IS  
275 DEGREES F.**

**THE RUGGED ALUMINUM FILTER!**