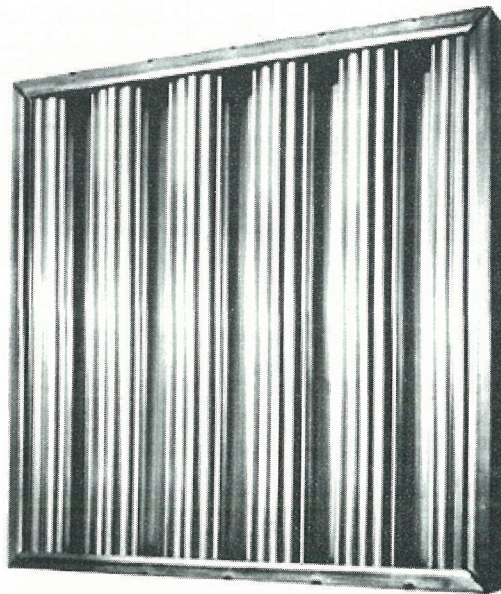


# SMITH

## FIRE PATROL GREASE FILTER



A unique, roll formed baffle filter is the:

**Smith Fire Patrol**

Designed to prevent flames from penetration  
through the filter into the grease hood and duct work.

UL Approved for Grease.



\*CLASSIFIED  
BY U.L. (Grease) NFPA Std. 96.

**SMITH**  
FILTER CORPORATION

Fischer-Robertson, Inc.  
3890 Symmes Road  
Hamilton, OH 45015  
ph 513-860-3445 fx 513-860-4744  
[www.fischer-robertson.com](http://www.fischer-robertson.com)

# FIRE PATROL FILTER

## GREASE FILTER

The Smith FIRE PATROL filter is a unique roll-formed baffle filter, designed to prevent flame from penetrating through the filter, into the hood and duct work. The sturdy design is made of two layers of baffles, strategically placed to allow grease laden air to swirl, adhering the grease to the baffles themselves. Grease drains down the baffles into a trough, where it can be easily wiped away. Support strips hold each baffle at precise distances from one another, allowing the proper distance between each baffle as well as giving the FIRE PATROL the stability this type of filter requires. Each baffle "pad" is supported by a solid metal frame, securely riveted on one side.

### MATERIAL AVAILABLE:

**Aluminum** - Heavy Commercial Aluminum  
**Galvanized Steel** - Hot Dip Galvanized Steel  
**Stainless Steel** - 304 Stainless Steel

### CONSTRUCTION -

**FIRE PATROL "A" (ALUMINUM).** The baffles shall be processed from Aluminum, no less than .025 in thickness. The baffle "pad" is framed in an aluminum channel not less than .037 thickness. Frame shall be secured with rivets at one corner, giving strength to the filter.

**FIRE PATROL "G" (GALVANIZED STEEL).** The baffles shall be processed from 28 gauge, Galvanized Steel, no less than .018 thickness. After the Galvanized Baffle "pad" is finished, it is framed in a Galvanized Steel frame no less than .027 thickness. Frame shall be secured with rivets at one corner.

**FIRE PATROL "S" (STAINLESS STEEL).** These baffles shall be processed from 304 Stainless, no less than .015 thickness. After the pad is formed by attaching each individual baffle to a strip, it is enclosed in a Stainless Steel frame that will not be less than .027 in thickness. Heavy rivets will be used to secure the frame at one corner.

Each baffle filter is manufactured individually, allowing for extra care to be given to assure a quality Grease Filter. Handles are optional on the Smith Fire Patrol at an additional charge



All Smith Baffles are  
 UL Approved for Grease

**SMITH**  
 FILTER CORPORATION  
 Moline, Illinois

For proper installation of the Smith FIRE PATROL, baffles must run vertically, allowing for proper grease drainage. For example, a 25 x 20 filter has the length of the baffles being the 25" side and the width of the filter being the 20" side. Drain holes are punched at the bottom of the baffles for two reasons. First, these holes allow the grease to drain into the trough so the grease can be easily wiped away. Second, these holes allow for easy drainage when the filters are being cleaned.

### FIRE PATROL

#### 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	---	.182	282	467	597	600	768	897
356	---	.261	376	623	796	800	1024	1197
445	---	.360	469	779	995	1000	1279	1496
533	---	.474	562	933	1192	1200	1532	1791
622	---	.540	656	1089	1391	1400	1788	2091
711	---	.753	750	1244	1590	1600	2044	2390
800	---	---	844	1400	1789	1800	2300	2689
889	---	---	938	1556	1988	2000	2556	2988
978	---	---	1032	1712	2187	2200	2812	3287

**ECONOMICAL** - Because of the unique design of the baffles themselves, there is little waste in production, allowing Smith Filter to pass the savings on to you. The filters are designed to withstand numerous cleanings, yet are cost comparative to a disposable baffle. The Smith FIRE PATROL is a very cost effective grease filter.

**CLEANABILITY** - Easily cleaned in a conventional or commercial dishwasher, sink or by steam. When cleaning Aluminum filters, never use a strong alkali solution, as it will eat away at the Aluminum. Recommended cleaning times vary per application depending upon the type and amount of grease accumulated.

**STOCK SIZES** - Smith Filter carries a wide variety of standard sizes in stock, allowing for next day shipping. As with all Smith Permanent filters, the stock sizes are nominal, undercut 1/2" on the length and width and undercut 1/8" on the depth. (For example: A 20"x20"x 2" is actually 19-1/2"x19-1/2"x 1-7/8").

**SPECIAL SIZES** - The Smith FIRE PATROL is also available in special sizes. Then ordering sizes not listed in the price book, state exact sizes. **Always state Vertical dimension first.**

**OTHER SMITH BAFFLES AVAILABLE:**  
**Fire Guard "G"** (Heavy Weight Galvanized Steel)  
**Thrifty Flame Stop** (1" Galvanized Steel Baffle Filter)