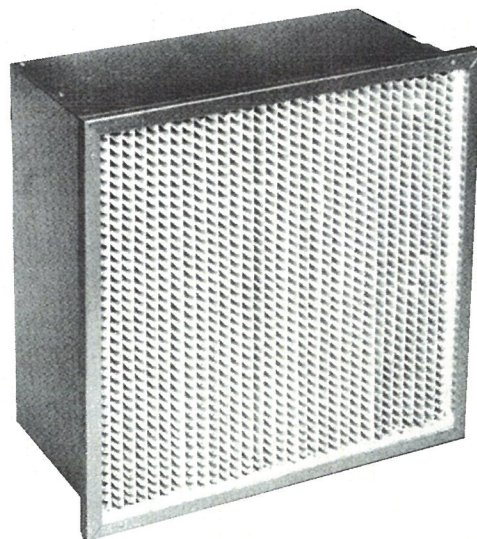


# SMITH

## ASHRAE FILTER



Merv 14 thru Merv 11  
Extended Surface is the

**ASHRAE FILTER**

Designed for air applications where a clean air environment is a necessity. This includes hospitals, laboratories, office building, food and beverage processing plants.

[www.smithfilter.com](http://www.smithfilter.com)

5000 - 41st Street Court \* Moline, IL 61265-7583 USA

LOCAL: 309-764-8324 \* WATS: 800-447-4009 \* FAX: 309-764-6816

# ASHRAE FILTER

## A HIGH AND MEDIUM EFFICIENCY EXTENDED FILTER

The Smith ASHRAE Filter is available in three efficiencies:  
**Merv 14 (90-95%), Merv 13 (80-85%) and Merv 11 (60-65%)**

The Smith ASHRAE Filter provides high efficiency filtration where a clean air environment is a necessity. This includes Hospitals, Laboratories, Office Buildings, Food and Beverage Processing Plants, etc. Filter performance is not significantly affected by changing air velocity or repeated fan shutdown, making it the ideal filter choice for variable volume systems. The Smith ASHRAE Filter makes upgrading of an existing filtration systems simple. The ASHRAE can be easily installed where lower efficiency filter no longer meet your filtration needs.

Each ASHRAE Filter is constructed of high strength water resistant glass micro-fiber paper in a pleated design. A corrugated aluminum separator is placed between each pleat of media to prevent the pleats from touching. This allows free flow of air into and through the filter. The separators also add rigidity to the construction. The front and rear edges of the separators are rolled over to eliminate sharp edges that could damage the media during shipping and handling. The media pak is installed into a heavy 24 ga. galvanized steel enclosure frame. A sealant is then applied to provide a positive seal between the media and the frame. Optional face guards are available on the air entering or air leaving sides of the filter upon request. The Smith ASHRAE Filter is classified by Underwriters Laboratories as U.L. Class 1.

The ASHRAE can be installed into a filter bank of NS-100 Filter Holding Frames. The Holding Frames will accommodate either the single header, or no header style of the ASHRAE. A pre-filter used in a conjunction with the ASHRAE can significantly prolong the life of the filter. There is a fastener to accommodate the particular installation you are working with.

**Three styles ASHRAE's are available:**

- \*Single header
- \*Double header
- \*No header

The header styles are available with either a 13/16" or 1 1/8" header.

### PERFORMANCE DATA

Nominal Size (Inches WxHxD)	Actual Size (Inches WxHxD)	Rated Air Flow Capacity CFM	Rated Initial Resistance (in W.G.)	Recommd. Initial Resistance (in W.G.)	Gross Media Area (Sq. Ft.)	Shipping Weight (lbs. per carton)
<b>Merv 14 90-95% AVERAGE EFFICIENCY</b>						
24x24x12	23 3/8 x 23 3/8 x 11 1/2	2000	.65	1.2	105	17.5
20x25x12	19 3/8 x 24 3/8 x 11 1/2	1750	.65	1.2	90	16.0
20x24x12	19 3/8 x 23 3/8 x 11 1/2	1650	.65	1.2	86	15.0
20x2x012	19 3/8 x 19 3/8 x 11 1/2	1400	.65	1.2	70	13.0
18x24x12	17 3/8 x 23 3/8 x 11 1/2	1500	.65	1.2	76	13.0
16x25x12	15 3/8 x 24 3/8 x 11 1/2	1400	.65	1.2	70	13.5
16x20x12	15 3/8 x 19 3/8 x 11 1/2	1100	.65	1.2	54	11.0
12x24x12	11 3/8 x 23 3/8 x 11 1/2	1000	.65	1.2	47	10.5
24x24x6	23 3/8 x 23 3/8 x 5 7/8	1000	.40	1.2	50	19.5
20x25x6	19 3/8 x 24 3/8 x 5 7/8	875	.40	1.2	43	18.0
20x24x6	19 3/8 x 23 3/8 x 5 7/8	825	.40	1.2	41	17.0
20x20x6	19 3/8 x 19 3/8 x 5 7/8	700	.40	1.2	33	15.0
18x24x6	17 3/8 x 23 3/8 x 5 7/8	750	.40	1.2	36	16.0
16x25x6	15 3/8 x 24 3/8 x 5 7/8	700	.40	1.2	33	15.5
16x20x6	15 3/8 x 19 3/8 x 5 7/8	550	.40	1.2	26	13.0
12x24x6	11 3/8 x 23 3/8 x 5 7/8	500	.40	1.2	22	12.5
<b>Merv 13 80-85% AVERAGE EFFICIENCY</b>						
24x24x12	23 3/8 x 23 3/8 x 11 1/2	2000	.55	1.2	105	17.5
20x25x12	19 3/8 x 24 3/8 x 11 1/2	1750	.55	1.2	90	16.0
20x24x12	19 3/8 x 23 3/8 x 11 1/2	1650	.55	1.2	86	15.0
20x2x012	19 3/8 x 19 3/8 x 11 1/2	1400	.55	1.2	70	13.0
18x24x12	17 3/8 x 23 3/8 x 11 1/2	1500	.55	1.2	76	13.0
16x25x12	15 3/8 x 24 3/8 x 11 1/2	1400	.55	1.2	70	13.5
16x20x12	15 3/8 x 19 3/8 x 11 1/2	1100	.55	1.2	54	11.0
12x24x12	11 3/8 x 23 3/8 x 11 1/2	1000	.55	1.2	47	10.5
24x24x6	23 3/8 x 23 3/8 x 5 7/8	1000	.35	1.2	50	19.5
20x25x6	19 3/8 x 24 3/8 x 5 7/8	875	.35	1.2	43	18.0
20x24x6	19 3/8 x 23 3/8 x 5 7/8	825	.35	1.2	41	17.0
20x20x6	19 3/8 x 19 3/8 x 5 7/8	700	.35	1.2	33	15.0
18x24x6	17 3/8 x 23 3/8 x 5 7/8	750	.35	1.2	36	16.0
16x25x6	15 3/8 x 24 3/8 x 5 7/8	700	.35	1.2	33	15.5
16x20x6	15 3/8 x 19 3/8 x 5 7/8	550	.35	1.2	26	13.0
12x24x6	11 3/8 x 23 3/8 x 5 7/8	500	.35	1.2	22	12.5
<b>Merv 11 60-65% AVERAGE EFFICIENCY</b>						
24x24x12	23 3/8 x 23 3/8 x 11 1/2	2000	.50	1.2	105	17.5
20x25x12	19 3/8 x 24 3/8 x 11 1/2	1750	.50	1.2	90	16.0
20x24x12	19 3/8 x 23 3/8 x 11 1/2	1650	.50	1.2	86	15.0
20x2x012	19 3/8 x 19 3/8 x 11 1/2	1400	.50	1.2	70	13.0
18x24x12	17 3/8 x 23 3/8 x 11 1/2	1500	.50	1.2	76	13.0
16x25x12	15 3/8 x 24 3/8 x 11 1/2	1400	.50	1.2	70	13.5
16x20x12	15 3/8 x 19 3/8 x 11 1/2	1100	.50	1.2	54	11.0
12x24x12	11 3/8 x 23 3/8 x 11 1/2	1000	.50	1.2	47	10.5
24x24x6	23 3/8 x 23 3/8 x 5 7/8	1000	.20	1.2	50	19.5
20x25x6	19 3/8 x 24 3/8 x 5 7/8	875	.20	1.2	43	18.0
20x24x6	19 3/8 x 23 3/8 x 5 7/8	825	.20	1.2	41	17.0
20x20x6	19 3/8 x 19 3/8 x 5 7/8	700	.20	1.2	33	15.0
18x24x6	17 3/8 x 23 3/8 x 5 7/8	750	.20	1.2	36	16.0
16x25x6	15 3/8 x 24 3/8 x 5 7/8	700	.20	1.2	33	15.5
16x20x6	15 3/8 x 19 3/8 x 5 7/8	550	.20	1.2	26	13.0
12x24x6	11 3/8 x 23 3/8 x 5 7/8	500	.20	1.2	22	12.5