

Research Products Corporation

1011 E. Washington Ave., Madison, Wisconsin

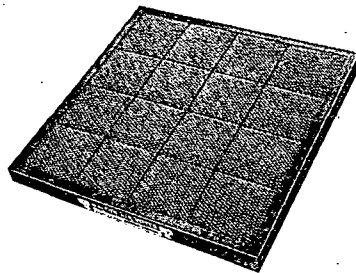
WALTON AIR FILTERS

High Dust Removal Efficiency—Low Air Resistance—Long Life

Walton air filters operate on the impingement principle, using an entirely new filter medium—expanded fibre. Large, uniformly distributed area holds large quantities of dust yet cleans effectively, with low air restriction. Air flowing through the filter impinges against more than 30,000 tiny baffles per sq ft, depositing dust, and changing direction 21 times.

To prevent clogging and insure uniform deposit of dust, the filter is made in three sections—at the inlet, coarse open mesh; middle and outlet sections progressively finer mesh; in each section a sticky compound is applied in progressive amount. Progressive mesh and progressive stickiness reduce clogging and insure high holding capacity. Exposed surfaces are free from excess stickiness—clean to handle.

The sticky compound will not drip or volatilize at high temperatures, nor gum at low temperatures, and is odorless.



WALTON AIR FILTER STANDARDS

Walton air filters are made in five standard sizes to fit most commonly used frames, special sizes for special requirements, and to standard or special specifications.

Standard Specifications

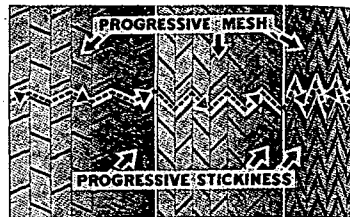
Recommended air capacity..... 250 to 350 cfm per sq ft of face area
Average efficiency (depending on type of dust)..... 86.5 to 100%
Holding capacity (standard dust)..... 132 grams per sq ft
Resistance when replacement is necessary at
250 cfm per sq ft of face area..... 0.18 in. water
Resistance when replacement is necessary at
350 cfm per sq ft of face area..... 0.55 in. water

Standard Sizes

20 x 25 x 2 in.
20 x 20 x 2 in.
16 x 20 x 2 in.
16 x 25 x 2 in.
15 x 20 x 2 in.

Special sizes for any purpose.

Walton air filters have been used successfully on warm air furnaces, ventilating and air conditioning systems, automobile air conditioning, industrial dust collectors, and wherever a filter is required for removing dust and pollen from the air.



Diagrammatic cross section of Walton filter. Three sections with progressively finer mesh and progressive stickiness. Large dust particles are trapped by the coarse section, finer particles by the finer mesh—deposited uniformly throughout the filter.

HIGH DUST REMOVAL EFFICIENCY

The Walton filter maintains high cleaning efficiency for all common dust sizes. Because of its controlled mechanical construction, blow holes do not form and pass dirty air.

Efficiency of the filter actually increases as it becomes laden with dust. Dust particles deposited on the baffle surfaces absorb the sticky compound, and, in turn, retain additional dust particles. Vibration cannot settle or pack the filter and thus reduce its efficiency. Particles cannot break off and blow into the air stream.

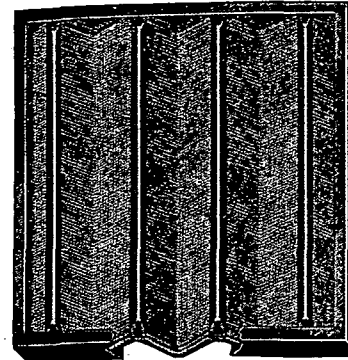
H. J. Somers, Incorporated

Factory and General Office

6063 Wabash Avenue

Detroit, Mich.

Somers Washable Air Filter



All Welded Vee Type

Somers Hair Glass Filters provide everything required in an efficient air-cleaning system. Consider these features: High rating for dust, soot and bacteria separation. Require no adhesive, coating or impregnation. Indestructible in normal service. Minimum Low Pressure Drop. Odorless and non-absorptive. Fireproof; Washable; Do not rot nor disintegrate; Permanent.

Somers Hair Glass Filters consist of a hot galvanized frame holding galvanized wire cloth packed with hair-spun glass strands. The glass strands are flexible, do not break up and cannot be drawn into air stream.

Hair-Glass, being chemically inert, has no facility of absorption; it cannot rust and lasts indefinitely in service. Water either hot or cold may be used to clean it, without impairing its efficiency.

These filters eliminate the necessity, the expense and the inconvenience of periodic replacement.

Somers Washable Air Filter—All Welded Vee Type—Stock Sizes (Partial List)

Frame Size Height and Length In.	Frame Depth In.	Filter Surface Sq. In.	For Average Dry Filter Installations CFM	Wet Application where water sprays are applied against filter for hu- midifying CFM
15 1/2 x 24 1/2	3 3/4	1023	1023	511
15 3/8 x 24 3/8	3 1/4	1110	1110	555
16 x 21 1/2	3 3/8	816	816	408
16 x 25	3 1/8	1056	1056	528
16 x 25	3 1/4	1632	1632	816
16 x 25	3 1/4	1344	1344	672
16 x 25	3 1/4	1440	1440	720
16 x 25	3 3/8	864	864	432
16 1/2 x 24 1/2	3 1/8	800	800	400
18 x 18	3 3/8	864	864	432
19 x 20	3 3/8	1482	1482	741
19 1/4 x 19 1/4	3 1/4	1039	1039	519
19 1/4 x 20	3	1039	1039	519
19 1/4 x 19 1/2	3	936	936	468
19 1/2 x 19 1/2	3 1/4	1053	1053	526
19 1/2 x 19 1/2	3	480	480	240
19 1/2 x 19 1/2	3	936	936	468
19 1/2 x 19 1/2	3 1/4	1170	1170	585
20 x 25	3 3/8	1800	1800	900
20 x 30	3 3/8	1800	1800	900
20 x 20	3 1/4	1040	1040	520
20 x 30	3	1560	1560	780
20 x 20	3 1/4	1200	1200	600
20 x 20	2	480	480	240
20 x 20	3	840	840	420
20 x 20	3	960	960	480
20 x 20	3 1/4	1320	1320	660
20 x 25	3 1/4	1560	1560	780
20 3/8 x 20 1/4	3	550	550	275

Other sizes from 9 3/4 x 30 to and inclusive of 31 in. x 23 3/4 also available. Send for complete stock size list. Frames zinc plated for 100 hour salt water spray test. Refill may be inserted if necessary.

Quotations and further engineering data, including master holding frame drawings will be sent on request.

Research Products Corporation engineers will gladly submit recommendations for any special applications that may be required.