

VORTOX**Vortox Company**

Claremont, California

Panel Air Filters Types VN, VH, VG, VR

VORTOX

Vortox Panel Air Filters are of the cleanable, impingement, viscous-coated type with exceptionally low air flow resistance. They are made for use in air conditioning, ventilation, range canopies, and general air filtration.

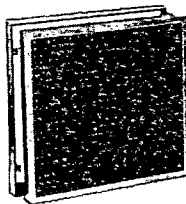
FILTER ELEMENT. Fabricated of elastic units of fine steel wire positively interlocked to provide a permanent filter, the element offers many advantages: (1) In a 2 in. x 20 in. x 20 in. panel there are from 9300 to over 15,000 feet of fine steel wire, depending upon the type. (2) Even distribution of the filaments exposes innumerable viscous-coated surfaces to the air stream, thus obtaining the most effective cleaning for the space occupied. (3) Proper spacing of filaments prevents clogging and assures maximum dust removal efficiency. (4) Structural strength and permanent resilience combine to withstand the "packing" effect of vibration and pulsation.

EFFICIENCY. Due to the superior characteristics of the filter element, Vortox Panel Air Filters are efficient at both high and low air flows. Consequently, to reduce the cost of the original installation or to save space, fewer Vortox filters

may be used at higher air velocities. To assure a longer service life, more Vortox filters may be used at lower velocities.



Cross-section of Vortox Filter Element



Vortox Panel Filter with Frame

Nominal Size of Panel Inches*	Actual Outside Dimensions Inches	Capacity Range in CFM**	Outside Dimensions Of Holding Frames Inches
16" x 20" x 2"	15 1/2" x 19 1/2" x 1 1/2"	640 to 950	16 1/2" x 20 1/2" x 2"
16" x 25" x 2"	15 1/2" x 24 1/2" x 1 1/2"	800 to 1200	16 1/2" x 25 1/2" x 2"
20" x 20" x 2"	19 1/2" x 19 1/2" x 1 1/2"	800 to 1200	20 1/2" x 20 1/2" x 2"
20" x 25" x 2"	19 1/2" x 24 1/2" x 1 1/2"	1000 to 1550	20 1/2" x 25 1/2" x 2"

*These filters are also made in 4-in. thickness

**Some filter manufacturers specify very high velocities which are applied to certain internal dimensions of the filter. The range of capacities stated above are computed on the basis of average to high velocities applied to the total filter area using the actual outside dimensions of Vortox Panel Air Filters.

In either case Vortox Panel Air Filters provide better cleaning at lower costs.

OPERATION. Dust-laden air entering the filter flows in an extremely tortuous path at relatively high velocity. Numerous changes in direction cause the dust particles to impinge on the adhesive viscous-coated surfaces of the filter element. Coarser particles collect near the entrance, while most of the finer particles penetrate to a greater depth. As the entrance becomes saturated with dust, the cleaning action takes place deeper in the filter and the restriction is increased slightly. Increased restriction diverts the air to cleaner parts of the filter element and the process continues. This results in a distributed dust load, higher over-all efficiency and greater total dust-holding capacity. Vortox Types VN, VH, and VG have a single thickness of fine mesh screen on the downstream side of the filter to prevent collected matter, which might become dislodged, from entering the clean air ducts.

EASY TO CLEAN. All dust and lint are easily and completely flushed from the filter by water or steam sprays.

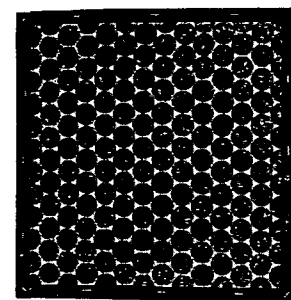
Wilson & Co., Inc.

AIR FILTER DIVISION

4100 S. Ashland Ave.

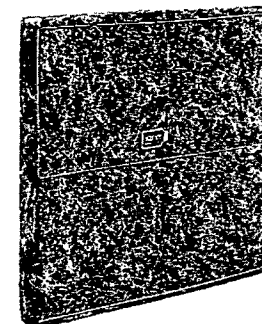
Chicago 9, Illinois

A Product of

WILSON & CO.
INC.**WILSON'S HAIR FILTER**

The Popular
WILSON HONEYCOMB

Here you have the popular HONEY-COMB air filter. Embodying the customary fiber bound edges and cellular metal face, the HONEY-COMB offers a new air cleaning principle to scientific filter design. Laboratory tests prove that no man-made fibre, or other non-absorbent surface, can equal natural hair as a medium for trapping and holding dust—with a minimum resistance to air flow.



The Famous
WILSON EDGESEAL

Wilson EDGESEAL filters whip that old problem, marginal leakage. By springing to fit, due to highly processed animal hair, scientifically bound, EDGESEAL adds an extra 20 per cent of face filtering area. Even greater is the addition to holding capacity. This filter works perfectly in the home. Filter banks demanding maximum area, a complete seal, and top efficiency should always use EDGESEAL. This advanced filter reaches you ready to install for your greatest satisfaction and protection.

ENGINEERING DATA**WILSON HONEYCOMB****WILSON EDGESEAL**

Filter Opening Size	Rated Capacity C.F.M. at 300 F.P.M.	ACTUAL DIMENSIONS			ACTUAL DIMENSIONS		
		Width	Length	Thickness	Width	Length	Thickness
10" x 10" x 2"	200	10"	10"	2"	10 3/4"	10 3/4"	2"
10" x 20" x 2"	400	10"	19 3/4"	2"	10 3/4"	20 1/4"	2"
15" x 20" x 2"	600	14 1/4"	19 3/4"	2"	15 1/4"	20 1/4"	2"
16" x 20" x 2"	640	15 1/2"	19 3/4"	2"	16 1/4"	20 1/4"	2"
16" x 25" x 2"	800	15 1/2"	24 3/4"	2"	16 1/4"	25 1/4"	2"
20" x 20" x 2"	800	19 3/4"	19 3/4"	2"	20 1/4"	20 1/4"	2"
20" x 25" x 2"	1000	19 3/4"	24 3/4"	2"	20 1/4"	25 1/4"	2"
20" x 30" x 2"	1200	19 3/4"	29 3/4"	2"	20 1/4"	30 1/4"	2"

WILSON HAIR FILTERS are manufactured in all regular and special sizes in 1 in. and 2 in. thicknesses. (1/4 in. and 3/4 in. thickness provided when required.)