



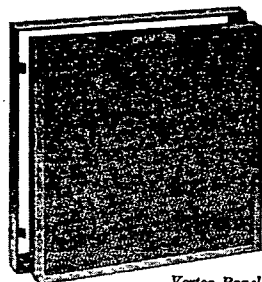
Vortox Company

Claremont, California,

Panel Air Filters for all Industrial Applications



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, engine intakes, and general air filtration.



Vortox Panel
Filter with Frame

Vortox Type VR Panel Air Filter illustrated above is the type used on engine intakes and in car bodies of diesel locomotives. It is constructed to withstand the severe usage of locomotive service. It has exceptional characteristics as in all types of Vortox Panel Air Filters.

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. panel there are from 9300 to over 15,000 feet of fine steel wire, depending upon the type. (2) Even distribution of filaments exposes innumerable viscous-coated surfaces to the air stream, thus obtaining the most effective cleaning for space occupied. (3) Proper spacing of filaments prevents clogging and assures maximum dust removal efficiency. (4) Structural strength and permanent resilience combine to withstand "packing" effect of vibration and pulsation.

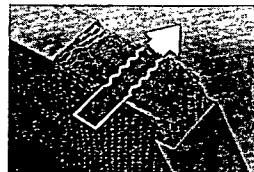
Nominal Size of Panel Inches*	Actual Outside Dimensions Inches	Capacity Range In CFM**	Outside Dimensions Of Holding Frames Inches
16 x 20 x 2	15 3/4 x 19 1/4 x 1 3/4	640 to 950	16 1/4 x 20 1/4 x 2
16 x 25 x 2	15 3/4 x 24 3/4 x 1 3/4	800 to 1200	16 1/4 x 25 1/4 x 2
20 x 20 x 2	19 1/4 x 19 1/4 x 1 3/4	800 to 1200	20 1/4 x 20 1/4 x 2
20 x 25 x 2	19 1/4 x 24 3/4 x 1 3/4	1000 to 1550	20 1/4 x 25 1/4 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.

EFFICIENCY. Vortox Panel Air Filters are efficient at both high and low air flows. Consequently to reduce costs 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. In either case Vortox Panel Air Filters provide better cleaning at lower cost.

OPERATION. Numerous changes in direction of dust laden air cause the dust particles to impinge on the adhesive viscous-coated surfaces of the filter



element. Coarser particles collect near the entrance, while finer particles penetrate to a greater depth. As the entrance becomes saturated the cleaning action takes place deeper in the filter and the restriction is increased slightly. Increased restriction in certain sections of the filter diverts the air to cleaner sections, thus distributing the dust load for a higher over all efficiency and a greater total dust-holding capacity. **EASY TO CLEAN.** All dust and lint are easily and completely flushed from the filter by water or steam sprays.



Westinghouse Electric Corporation Sturtevant Division

Heating, Ventilating, Dust Control and Fume Removal
Equipment, Electronic Air Cleaners, Mechanical
Draft Equipment

Hyde Park

Offices in Principal Cities

Boston 36, Mass.

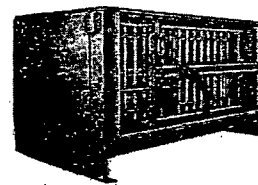
PRECIPITRON® ELECTRONIC AIR CLEANERS

By catching and holding dust, dirt, smoke, pollens and bacteria as small as one-tenth of a micron, the Westinghouse PRECIPITRON provides clean air for homes, hospitals, public buildings, commercial and mercantile establishments and industrial plants. A product of research and development by Westinghouse engineers, PRECIPITRON is available in unitary and field assembled models, all easily installed and with capacities to meet exacting requirements.

Oil Mist Control Units—Collect oil coolant mists generated by high-speed cutting, grinding operations. Fan is built-in for individual machine ventilation. Available in 600 and 1200 cfm standard units and special assemblies to order for other capacities.



Oil Mist Control Unit

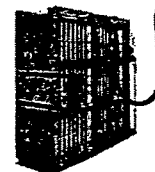


Cabinet Unit

Field Assembled Units—Can be built up to any desired capacity from 15,000 to 120,000 cfm or larger for use with central conditioning apparatus. Electrical and mechanical erection simplified ... internal high voltage wiring and connections eliminated ... new pre-fab bed-plate and casing design.

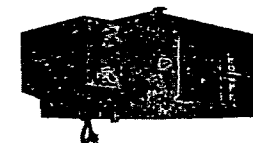


Field-Assembled Unit



Heavy Duty Industrial Unit

Residential Units and O.E.M. Packaged Equipment—Compact, easy to install, with built-in washing mechanism, low operating cost (less than a 25 watt light bulb) and 90 percent air cleaning efficiency. Available in ceiling and floor models for direct connection to any air conditioning or forced air heating system. Capacities from 1000 to 2400 cfm and up.



Residential Unit and O. E. M. Packaged
Equipment