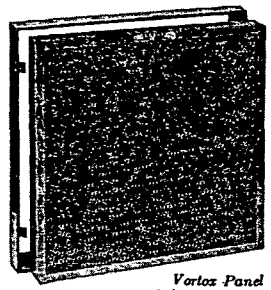
Vortox Company

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.



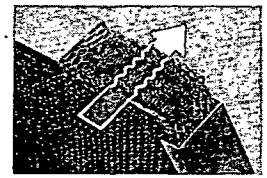
Vortox Panel Filter with Frame

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 the 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.

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.

Nominal Size of Panel Inches*	Actual Outside Dimensions Inches	Capacity Range In CFM**	Outside Dimensions Of Holding Frames Inches
16 × 20 × 2	15¾ × 19¾ × 1¾	640 to 950	16¼ × 20¼ × 2
16 × 25 × 2	15¾ × 24¾ × 1¾	800 to 1200	16¼ × 25¼ × 2
20 × 20 × 2	19¾ × 19¾ × 1¾	800 to 1200	20¼ × 20¼ × 2
20 × 25 × 2	19¾ × 24¾ × 1¾	1000 to 1550	20¼ × 25¼ × 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.

Westinghouse Electric Corporation

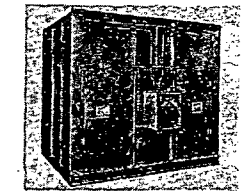
Sturtevant Division

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

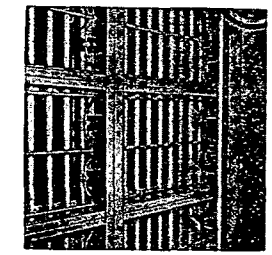
Hyde Park — Offices in Principal Cities — Boston 36, Mass.

ELECTRONIC AIR CLEANING

PRECIPITRON high efficiency electronic cleaners save money by removing harmful dust and dirt from ventilating air. In commercial buildings **PRECIPITRON** catches dirt and grime before it settles on walls, merchandise, light fixtures and equipment. In industrial plants **PRECIPITRON** protects valuable equipment, prevents product spoilage and improves working conditions.



Encased Precipitron Horizontal Airflow



Commercial Precipitron With "Push-Button" Wash

Horizontal and Vertical Air Flow

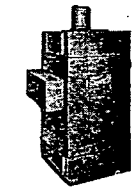
Manual wash type for installation in ducts. Sizes range from 1200 to 100,000 cfm for operation at 90 per cent efficiency by Blackness Test. Units easily maintained by manual washing. Uses 115 volts single phase power—only 40 watts per 1000 cfm.

Push-Button washing type, washes and applies adhesive with a built-in motorized moving nozzle washing mechanism operated by remote control. Allows operator to service the unit quickly and economically from outside the duct. Sizes from 5000 to 72,000 cfm.

Automatic Washing type for large, heavy duty applications. Washes and applies adhesive automatically without interrupting the air flow. Mobile washer boxes isolate small section of unit for complete servicing. Capacities from 24,000 cfm up.

Vertical Unit for up or down, air flow —manual washing. Suited to small and medium size installations where floor space is at a premium. Capacities 1200 to 9600 cfm.

Home Unit



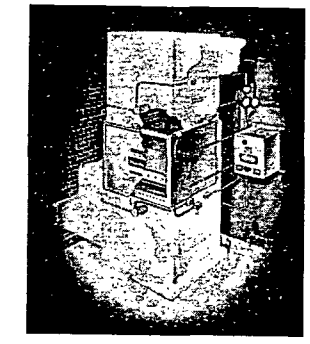
Oil Mist Control Unit

Oil Mist Control Units

Designed to collect oil coolant mists generated by high-speed cutting, grinding or machining operations. Have built-in fan for individual machine ventilation. Available in 600 and 1200 cfm capacities.

Home Unit

Designed for residential use when connected with forced warm air heating system. Two capacities: 1000–1200 cfm and 2000–2400 cfm; efficiency 90 per cent. Operates from house current.



Commercial Vertical Airflow Unit