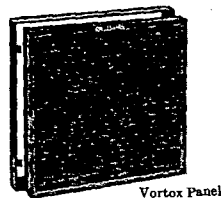


VORTOX COMPANY

Claremont, California

Panel Air Filters for all Industrial Applications

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



Vortex Panel
Filter with Frame

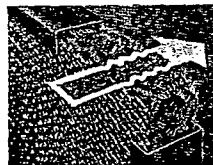
The Vortex Type VN Panel Air Filter illustrated above is the type used in air conditioning units and for general air filtration.

The Vortex Type VG Panel Air Filter, similar in appearance but of heavier construction, is the type used as a combination filter and flame arrestor in kitchen range canopies.

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 9,300 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 servicing.

EFFICIENCY. Vortex Panel Air Filters are efficient at both high and low airflows. Consequently to reduce costs of the original installation or to save space, fewer Vortex Filters may be used at higher air velocities. To assure a longer service life, more Vortex Filters may be used at lower velocities. In either case, Vortex 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 x 20 x 2	15 5/8 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 5/8 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 Vortex Panel Air Filters.

Westinghouse Electric Corporation Sturtevant Division

Heating, Ventilating, Cooling, Dehumidifying,
Electronic Air Cleaning and Mechanical Draft Equipment

Main Office—Boston 36, Mass.

Offices in Principal Cities

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.

HIGH CAPACITY UNITS—available from 2500 to 120,000 cfm for use in central ventilation and air conditioning systems. Units feature automatic washing—built-in high voltage connections—simplified erection.

IN-LINE AIR CLEANER SECTIONS—match standard Air Distributing Units for Air Conditioning, Heating, Ventilation and Air Cleanliness control. Sizes from 2000 to 28,800 cfm—built-in traverse washing, in economy or automatic models.

HEAVY DUTY UNITS—especially for industrial applications where dust concentrations are greater. Available with one side or dual side automatic washing, remotely controlled in sizes and capacities from 6000 cfm up.

CABINET UNITS—available in high capacity and heavy duty models. Self-contained—built-in traverse washing—suspended or platform mounting. Capacities 2000 to 28,000 cfm in high capacity, 2000 to 12,000 in heavy duty models.

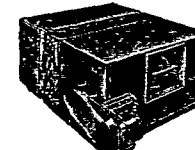
OIL MIST CONTROL UNITS—collect coolant oil mists generated by high speed machinery. Fan is built-in for individual machine ventilation.

Since 1880—Pioneers and Pacesetters in Pulling Air to Work for 100 Years.

(3-5067)



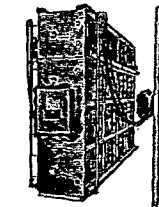
High Capacity Units
Catalog 1460



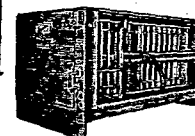
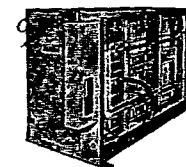
In-Line Air Cleaner
Sections
Catalog 1636



Heavy Duty Units
Catalog 1413



Cabinet Units
Catalogs 1465 and 1425



Oil Mist
Catalog 1450