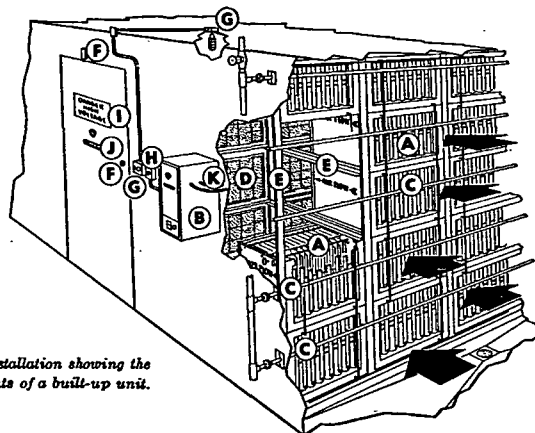




TRION, INC.*

1000 Island Avenue, McKees Rocks, Pa.
IN METROPOLITAN PITTSBURGH



Typical Trion installation showing the various components of a built-up unit.

TRION ELECTRIC AIR FILTERS (Electrostatic Precipitator)

Trion Electric Air Filters remove more than 90 per cent of dust, dirt, smoke, pollen and air-borne bacteria from air streams (*National Bureau of Standards "blackness" test*). Trion manufactures a complete size range of electric air filters for residential, commercial and industrial applications as follows:

BUILT-UP UNITS for commercial and industrial use. Complete unit consists of (A) ionizing-collecting cells for specified cfm at required cleaning efficiency; (B) power pack(s) of proper size and capacity, complete with electronic tubes, indicating instruments and magnetic circuit breaker; (C) complete water-wash cleaning system; (D) built-in bank of water proof, dry type mechanical after-filters; (E) rust resistant steel framework, factory assembled, then matched-marked before shipment; (F) door interlock and time delay screws; (I) "Danger High-Voltage" sign; (J) Trion name plate; (K) all high voltage cable and connectors.

CUSTOM-BUILT "PACKAGED" UNITS are advantageous in smaller installations where space is limited. Models up to 9330 cfm are constructed to specifications as a complete package, including drain pan and access door.

STANDARD "PACKAGED" UNITS for residential and small commercial use are available from stock in 4 sizes up to 4000 cfm at 90 per cent efficiency. Shipped fully assembled, complete with adaptors, interchangeable to accommodate air flow from right or left.

ENGINEERED EQUIPMENT designed and manufactured to meet specific requirements of by-product recovery, nuisance elimination, general purification of air or other gases. Design takes into consideration pressure, temperature, corrosion, dirt-loading, removal of collected dirt.

* Designers and manufacturers of equipment for electrostatic cleaning and purifying of air and other gases.



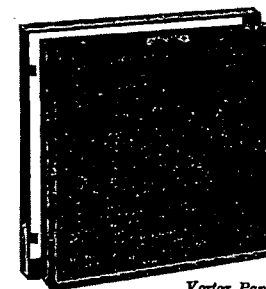
Vortox Company

Claremont, California

Panel Air Filters for all Industrial Applications



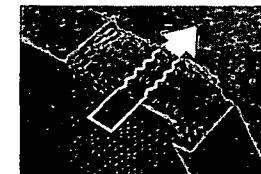
Vortox Panel Air Filters are of the cleanable, impingement, viscous-coated type with exceptionally low air flow resistance. They are made for use in air conditioning, ventilation, range canopies, engine intakes, and general air filtration.



Vortox Panel
Filter with Frame

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



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.

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 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.