

Electro-air Cleaner Company Inc.

Olivia & Sproul Sts., McKees Rocks, Pa.

"In Greater Pittsburgh" • Representatives in Principal Cities

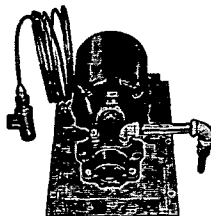


Electro-air Hi-C, "High Capacity" Electronic Air Cleaners have been developed for ease of installation, maintenance-free operation and high efficiency. The entire line features a self-adjusting, ballasted, single circuit and selenium rectifiers. All parts, including selenium rectifiers are guaranteed for five years.

All Electro-air equipment incorporates the patented "Inside Curve" Ionizer which means higher efficiency, reduced size of equipment, increased capacity and face velocity, and service-free operation. All sizes of Electro-air units are available with either vertical traveling manifold or horizontal fixed manifold washing systems.

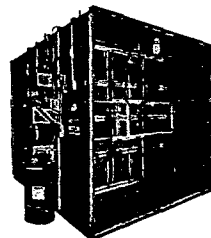
The latest Electro-air engineering development is the new **Detergent-Adhesive System, Type "X"**, with "double action" DAX solution which is available with all sizes of Electro-air equipment. It is supplied as a "package" and is used to promote thorough washing and adhesive application. DAX solution is injected into the wash water during the last 1/3 of the washing cycle, acts as a strong detergent, then dries and leaves an adhesive coating on collecting plates and electrodes.

Electro-air Detergent-Adhesive System Type "X"



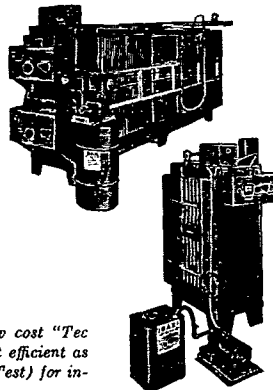
"Built-up Line" equipment is manufactured in capacities from 10,350 cfm to 200,000 cfm for larger building areas. Each unit is made "to order" according to the specified height, width and cleaning capacity required, is assembled and tested at the factory, then match-marked, disassembled and shipped in well marked crates. "Built-up Line" units are also furnished with "enclosures" complete with drain pans, fore and aft ducts, windowed access doors and complete wiring.

Electro-air "Built-up Line" Enclosure Unit



"Custom Line" units are furnished in capacities from 1,150 cfm to 21,360 cfm as complete "packages" and are designed for use in those cases where space is limited and access doors in ducts are not practical. Each unit is complete with the required number of collecting cells, drain pan, washing system and power pack. "Custom Line" Electro-air units are furnished in either horizontal or vertical (up or down) air flow, and may be floor mounted or suspended.

Electro-air "Custom Line" Unit



"Compact Line" Electro-air units are moderately priced and are designed for easy installation in homes and smaller commercial or industrial buildings which have forced air ventilation. They are available in fifteen models, both horizontal and vertical (down) flow in capacities from 800 to 9,600 cfm. Horizontal flow models may be either floor mounted or suspended. "Compact Line" units include most features of larger "made-to-order" Electro-air models.

Electro-air "Compact Line" Unit

Electro-air Cleaner Company, Inc. also manufactures low cost "Tec Line" units which are true electronic air cleaners (90 percent efficient as determined by the National Bureau of Standards Dust Spot Test) for installation in small and medium size homes.

THE GEORGE EVANS CORPORATION

MOLINE, ILLINOIS



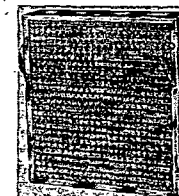
Evans Lifelong Air and Grease Filters

All Aluminum . . . Every Part Precision Made



Above photo shows section of precision stamped grid.

FILTER PACK HOLDS MORE GRAMS OF DIRT PER CUBIC INCH.



Strands and grids are scientifically sized and placed for holding maximum dirt load. Filter pack has larger grid openings on air inlet side progressing to smaller grid openings on air outlet side. Prevents face loading and choke-off of air stream. Accomplishes uniform depth loading all through the pack. Every grid, every strand does its part.

TURBULENCE AIR CLEANING ACTION.

Dirt is slammed into the flat strands of mesh where it is caught and held by talon like edges of these grids. Precision stamped openings force air to travel many times filter depth from inlet to outlet side. . . . for high efficiency air cleaning.

LOWER AND SLOWER STATIC PRESSURE RISE PER GRAM OF DIRT LOAD.

Filter pack catches and holds dirt without strangling air stream. Filter remains in service longer: (1) without sharp increase in resistance (2) with fewer cleanings (3) with power costs held down.

HIGH VELOCITY APPLICATION. . . UP TO 1,000 FPM.

Using turbulence air cleaning action (instead of screening or straining action) makes Evans filters particularly well suited to extremely high velocity requirements. The higher the velocity . . . the harder dirt is slammed into the mesh where it is caught and held by the talon like edges of the strands. Filter's efficiency rises as velocities rise.

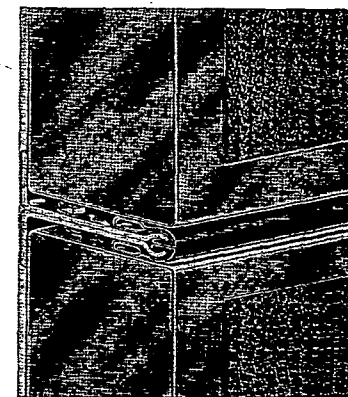
DOUBLE ACTION ADHESIVE.

Works as adhesive while filter is in service. Becomes a detergent and helps wash filter when water is flooded on. **IMPORTANT** . . . When Evans filter fluid is used filters can be washed with tap water.

FILTER CAPACITY CHART—CFM DELIVERY

(Velocity) fpm	Pressure Loss inches H ₂ O	cfm Delivery Standard Size Filters					
		10 X 20	16 X 20	20 X 20	20 X 24	24 X 24	24 X 30
303	.044"	315	545	700	894	1035	1283
345	.054"	260	425	600	751	871	1078
390	.068"	225	375	500	625	725	894
425	.077"	200	330	450	550	630	778
475	.094"	175	290	390	480	550	678
515	.111"	155	255	345	420	480	594
560	.133"	135	220	295	360	410	500
605	.156"	115	190	255	310	350	430
650	.180"	100	165	220	270	300	370
695	.206"	85	140	190	230	260	320
740	.234"	75	125	170	200	230	280
785	.264"	65	110	150	180	200	250
830	.296"	55	95	130	160	180	220
875	.331"	45	80	110	140	160	190
920	.368"	35	65	90	110	130	160

SEAL TIGHT HOLDING FRAME WITH PVC GASKET GIVES PERMANENT DUST TIGHT SEAL.



Gasket pressure locks filter into frame. No springs, latches or locking attachments. Slide filter into frame. Gasket automatically grips it securely.

Gasket is permanent (Polyvinyl Chloride). Stands up for years against compressive stresses without breaking down. Unaffected by oil or moisture.

HOW TO SPECIFY EVANS SEAL-TIGHT FRAMES.

Filter holding frames shall be heavy gage steel. Polyvinyl chloride gasketed on front of air inlet side. Gasket shall provide both positive grip for holding filter in frame and positive seal between filter and holding frame. Frames shall be double coat finished in black enamel. Frames shall bolt together.

HOW TO SPECIFY EVANS LIFELONG AIR FILTERS.

Filters shall be aluminum. Frame holding media shall be one-piece precision die-pressed heavy gage aluminum with edges rounded. Corners machine fitted. Frame shall have drain holes in 3 corners of frame member. Filter pack shall be made of die-cut flat and corrugated aluminum grids packed with larger openings on inlet side progressing to smaller openings on outlet side.