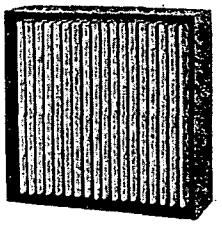
Coppus Engineering Corporation

339 Park Avenue, **Worcester, Mass.**

MANUFACTURERS OF AIR FILTERS, STEAM TURBINES, FORCED DRAFT BLOWERS, COOLING FANS

Coppus Unit Filter

Coppus Unit Filter—The Coppus Unit Filter is of the dry type using a removable filter glove made of all-wool felt or a specially woven cotton textile and supported by a rigid, welded distender frame which is adjustable so that after assembly the filter glove may be stretched and held tautly inside of the filter casing, giving the pockets a tapered shape so essential for an even air flow. All metallic parts are rust-proofed (Bonderized, Cadmium Plated), and Duco painted.



Air Intake Side of Stationary Unit Filter

Specifications

Normal Rating: 800 cfm.
Resistance when clean: .2 in. W.G.
Dust Arrestance (cleaning efficiency): 99.61 per cent (Tested in accordance with A.S.H.V.E. Standard Code for Testing and Rating Air Cleaning Devices Used in General Ventilation Work).
Dimensions: 20 in. by 20 in. by 6½ in.
Weight per unit: 25 lbs.

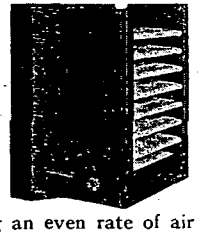
Cleaning Filter Elements with Portable Vacuum Cleaner

Outstanding Advantages

1. It has an exceptionally high dust arrestance.
2. It maintains a high dust arrestance even under diverse conditions of neglect.
3. Its operation is not impaired by atmospheric conditions.
4. It is a Medium Air Resistance Type (Class C) according to the A.S.H.V.E. Code for Air Cleaning Devices.
5. It is easily and quickly cleaned without removing the filter element.
6. Its cost of upkeep is very low because the *permanent* filter element is reconditioned periodically with a vacuum cleaner.
7. It combines scientific knowledge and practical engineering methods with highest quality of material and workmanship.

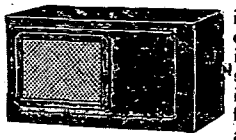
Automatic, Self-Cleaning Air Filter

Automatic Self-Cleaning Air Filter—It uses the same specially woven cotton textile as filter medium arranged in the shape of an endless belt in zigzag fashion over rolls. The horizontal pockets have a tapered shape, thus securing an even rate of air flow over the whole effective filter area. At predetermined intervals the filter curtain is automatically moved by a small geared motor over the rolls, thus passing over a suction nozzle. For certain types of dust the filter is also equipped with a beater which, at predetermined intervals, automatically reconditions the filter curtain. The cleaning and reconditioning operation takes place while the ventilating system is in operation. Built in capacities from 2000 cfm up.



Coppus Window Air Filter

It supplies a continuous flow of filtered air, is extremely quiet in operation, keeps out street noises, eliminates dirt and dust including invisible particles, and last, but not least, is very effective against rag weed pollen in concentrations commonly found in the hay fever season. Its use is recommended for offices, homes and hospitals.



Air Filters for Compressors and Internal Combustion Engines.

Steam Turbines, Horizontal and Vertical, 1 to 100 Hp.

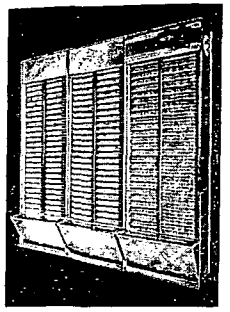
Forced Draft Blowers.

Portable and Cooling Ventilating Fans.

Independent Air Filter Co.

215 West Ohio Street, **Chicago**

Representatives in all principal cities

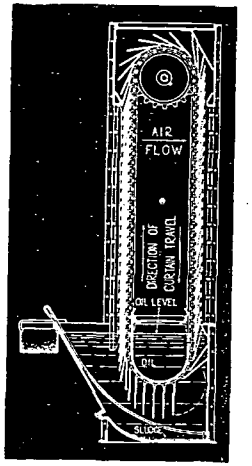


Three Section Group, 9 ft. 3 in. high by 9 ft. 0 in. wide, capacity 30,000 c.f.m. "Double Duty" filters are made in capacities from 3000 to 600,000 c.f.m.

"DOUBLE DUTY"

An Air Cleaner That Cleans Itself—and Never Clogs

This type especially adapted for large installations, where automatic operation and unvarying air flow are important factors. The filtering principle is that of true impingement on viscous coated metal surfaces. Endless filter curtain composed of die stamped steel plates, heavily indented, and disposed in overlapping form. Acute deflections of individual fins, constantly coated with heavy oil, result in high cleaning efficency. Entirely self-cleaning, regardless of dust content of air. Self-draining design of curtain plates eliminates all danger of oil entrainment.



Cross-section through filter. Sludge is removed at intervals of two to six months. Oil consumption negligible—never changed; merely replenished

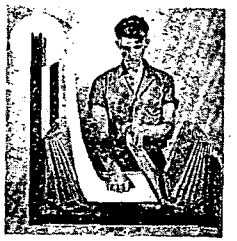
TYPICAL "KOMPAK" GROUP

Note easy method of detaching unit from frame. Supporting framework shipped completely assembled ready for direct attachment to sheet metal duct

"KOMPAK"

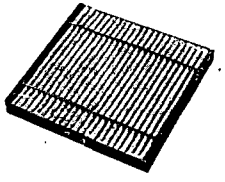
A Low Velocity, Dry Fabric Air Filter—With Renewable Medium

For general ventilation and industrial air cleaning. Successfully used in large and small installations. Filtering principle that of straining air through fabric material at low velocity. Any degree of efficiency desired can be obtained by selecting fabric best suited for individual requirements. Standard filter medium, known as "Filterdown" is high grade, fluffy cotton material, with high cleaning efficiency and remarkable dust holding capacity. Other material, obtainable in open market, can be used. Filter units made rust proof by heavy cadmium plating. Each unit contains 27 square feet of filter medium, which at normal rating of 600 c.f.m., results in velocity of 22½ f.p.m. through material. Initial resistance 0.15 inch w.g.



METHOD OF SERVICING

Entire operation—unloading, refilling and replacing—consumes at most 3 minutes per unit. Useful life of filter medium varies from three to six months, depending on conditions



ZIG ZAG

An all purpose fabric air filter for installations of the smaller capacities. High in cleaning efficiency, low in initial cost and low in cost of refills. Made in two standard sizes, 20 in. x 20 in. and 16 in. x 25 in. Both rated at 800 c.f.m. each

FIBRE PAK

A popular priced filter of the "throwaway" type. Filter filling is oil treated vegetable fibre—a tough, springy, ribbon-like material. Frame provides for expansion gap between front and rear units. This type available in unit form for warm air heating systems and air conditioning equipment