AMERICAN AIR FILTER COMPANY INC.

1st Street and Central Avenue, **Louisville, Ky.**

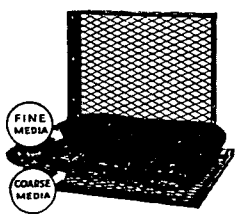
Representatives in Principal Cities

Dust Engineering—Dust Engineering is that branch of applied science which deals with the origin, nature and characteristics of the small solid air-borne particles called "dust," and the development of methods, processes and apparatus for its control or elimination.

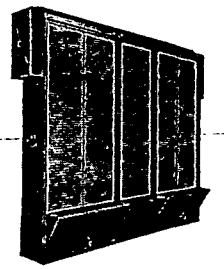
The American Air Filter Company, Inc., has had an important part in advancing the science of Dust Engineering. The efforts of its Research and Engineering Staff for the past twelve years have been devoted exclusively to the study of dust problems and the development of a complete line of air cleaning equipment for modern air conditioning, building ventilation and the control of process dust in industry.

American Air Filter products, therefore, not only embody the knowledge accumulated from years of constant research and the experience gained from designing, building and applying thousands of air filters, but are backed by ample technical and financial resources to insure their outstanding position in the Dust Engineering field.

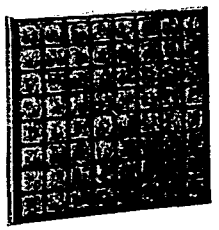
Products—American Air Filters are available for every condition, with operating characteristics and efficiencies to suit specific problems. In general, there are two distinct types based upon the "viscous film" and "dry mat" principles. Each type is made in several styles which differ in method of operation, servicing, space required and initial cost to meet the various conditions encountered in air cleaning problems. A discussion of various filter types will be found in the Technical Data Section under "Air Cleaners."



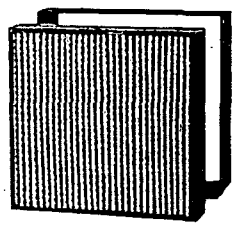
Renu-Vent Filter



Automatic Multi-Panel Filter



Throway Air Filter



Airmat Drifilter Type K

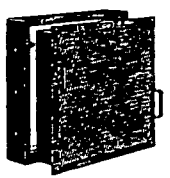
Air filters are generally used for the removal of dust, dirt, bacteria and other foreign matter from the air and are applied to general ventilation, modern air conditioning, process dust control; for air compressors and Diesel Engines; mill motors, turbo-generators and other electrical applications; and for air or gas under pressure to remove entrained oil, moisture and dirt.

Air Filters in Air Conditioning—Filtered air is today recognized as essential in modern air conditioning. There are other important factors which contribute to our comfort such as temperature, air movement and humidity, but science today emphasizes the prime necessity of pure air for health and efficiency.

Air cleaners have, of course, always been considered an integral part of large central systems. These are usually of the fully automatic type such as the Multi-Panel filter, illustrated in the accompanying photograph.

There are now available to manufacturers of unit air conditioners moderate priced unit filters, such as the Re-Nu filter, the Drifilter and the Throway filter, illustrated herewith.

The Re-Nu filter is an entirely new departure in air filter construction. It consists of a permanent metal frame provided with



Standard Viscous Unit Filter

a removable cover and renewable filter pad. The cover is easily removed without the use of tools, and filter pad can be lifted out and replaced with a new one at very small expense in less than a minute's time.

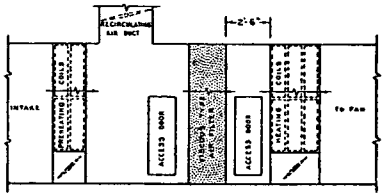
The Drifilter consists of the Airmat filtering media mounted on a supporting member and arranged in saw-tooth fashion, as illustrated. The filter media is reasonable in price and can be easily replaced when desired.

The throway filter, as the name implies, is an inexpensively constructed unit designed to be discarded after it has served its maximum period of usefulness and replaced with a new filter unit. The filter pad is enclosed in a perforated cardboard container which makes it possible to dispose of the dirty filter by burning it in a furnace or incinerator.

There is probably no single item which costs as little and may mean as much in the design of an air conditioner as air filtration. These units are furnished in any dimensions or shapes desired. They are usually built in units handling 400 c.f.m. and from 2 in. to 4 in. thick. They are usually made in the following sizes—20 x 20 in., 16 x 25 in. and 16 x 20 in. High cleaning efficiencies can be secured, with a resistance to air flow ranging from 1/16 in. to 3/8 in. water gauge.

Automatic Self-Cleaning Air Filters—The American line of automatic air filters is among the most complete that has ever been offered, the most popular types being Multi-Panel, Horizontal and Phoenix Filters.

All types are furnished for either continuous or intermittent service and are available in sizes and set-ups suitable to any desired capacity or space condition.



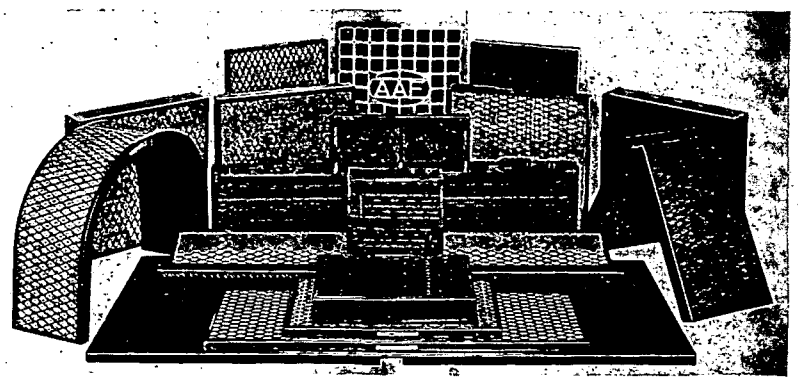
Typical Installation

Standard Viscous Unit—The American Unit Air Filter incorporates the time tested unit principle of construction. Each unit consists of a standard steel frame and interchangeable cell equipped with automatic latches to facilitate removal for cleaning and recharging.

Airmat Filter Dry Type—The filtering media in this type is the Airmat sheet, a dry filter mat composed of thin sheets of gauzy, cellulose tissue. The Airmat sheets are supported in screen pockets mounted in a unit frame of box-like construction. These unit frames can be set up to meet any capacity requirement or space condition. The Airmat sheets are renewable—their life depending on the dust condition and hours of daily service.

Airmat filters are used both for air conditioning and industrial air conditioning. In the latter field they are particularly well adapted for the recovery of valuable dusts and for abating the dust nuisance which confronts so many industrial plants.

Our standard data books and catalogues are to be found in most engineering files or libraries. We will be glad to furnish full data to engineers or manufacturers interested in this subject.



Various Types of Unit Air Filters for Air Conditioning Work