

Midwest Air Filters, Inc.

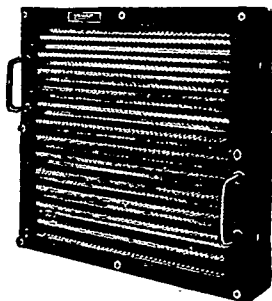
100 East 45th St., NEW YORK, N. Y.

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Description of Unit

A Midwest filter unit consists of a frame and a cell. The cells are set on the frames after the frames are put in place. Two or more frames can be bolted together in any shape to obtain the desired capacity filter. See cut on opposite page, for typical installation.



Midwest Unit Air Filter—Type U-2

Dimensions of Units

Each frame measures 20 x 20 x 3 1/2 in.

Each side of the frame has two bolt holes in order that the adjoining frames may be bolted together.

HOW TO DETERMINE THE NECESSARY NUMBER OF FILTER UNITS for a GIVEN QUANTITY OF AIR

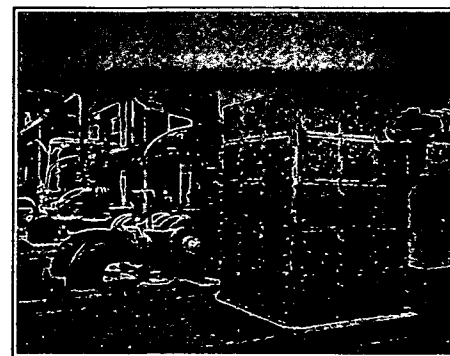
Each filter Unit has a normal capacity of 1000 C.F.M. Therefore divide the total quantity of air to be cleaned per minute by the capacity of an individual Filter Unit. Average Resistance, 3/8" water gage.

The following table gives the number of Filter Units necessary for the various air quantities. However, the proper number of units for any intermediate air quantities can be determined as previously described.

C.F.M.	Number of Filter Units	Square Ft. over Front	Approximate Weight Installed
2,000	2	5.55	130
4,000	4	11.11	240
6,000	6	16.7	340
10,000	10	27.80	540
15,000	15	41.7	780
20,000	20	55.5	1,010
30,000	30	83.3	1,470
40,000	40	111.1	1,950
50,000	50	138.9	2,400
60,000	60	166.7	2,850
70,000	70	194.4	3,560
80,000	80	222.2	4,010
90,000	90	250.0	4,410
100,000	100	277.8	4,720
200,000	200	555.6	9,400
1,000,000	1,000	2,777.8	47,000

Flexibility

Being constructed on the multiple unit principle, this filter can be assembled in any shape or design to conform to local conditions and space allowance. When units are to be assembled in any shape other than in one plane, the Midwest Air Filters, Inc., furnish suitable corner connections, enabling the filters to be installed in the shape which local conditions require.



Typical Installation

The filter can be installed in a room or in an enlarged portion of the duct. The air may be taken from the outside of the building or it may be taken from the inside and recirculated.

If inside space is valuable, the filter can be placed outside the building or on the roof, ducts leading from same to various points of distribution.

Inlet and Outlet Ducts for small installations of about 25 units and under, should be about 3 ft. away from the filter. For large installations, this distance should be increased accordingly. An air velocity of 1,000 ft. to 1,200 ft. per min. in ducts leading to and from the filter is recommended.

The maintenance consists of cleaning the filter cells when they have become sufficiently dirty to materially increase their resistance, and in re-charging them with Midwest Viscosine. The cleaning is done by immersing the cells in the washing tank containing hot water or, if necessary, a solution of hot water and soda. After a cell has been cleaned, it is placed in the drying racks in order that all water may drain off. After the cell is perfectly dry, it is immersed in a bath of Viscosine, and again placed on the racks to enable the surplus Viscosine to drain off. As a cell is taken out of an installation for cleaning and re-charging, a ready reserve cell is inserted in its place.

The time that the cell may be in service between cleanings varies from 12 to 20 weeks under normal conditions.

OTHER TYPES OF FILTER

Filters for Turbo-Generators, Air Compressors, Tractors, for cleaning air and gases with heavy dust content, built to suit various industries and uses.