

High flow minipleat filters of type HFMF-F of F6÷F9 classes

High flow minipleat filters of HFMF-F type are used for effective air-cleaning (clearing class from F6 up to F9) from fine dispersing aerosols in systems of general ventilation and air conditioning. These filters can be used as precleaning filters, installed before HEPA and ULPA filters of type HEF of H10-U17 classes.

At cleaning of large volume air these filters can be placed in filtering chamber of pleated filters of type FCCF (look the catalogue of company “Air Filters F”).

Filters can be used in different branches of industry, including for air cleaning in gas turbine and compressor installations.



Fig. 1 Scheme of filter HFMF-F

CHARACTERISTICS

Table 1

Filter class HFMF-F (EN 779)	Nominal specific air flow $m^3/h \cdot m^2$	Pressure drop, Pa	
		Initial	Recommend final
F6	14300	110	450
F7		140	
F8		170	
F9		240	

The filters are operational and keep their characteristics at air temperature from $-40^{\circ}C$ - $+80^{\circ}C$ and relative humidity not over 95%.

GENERAL DESIGN

Filter consists of the body 1 (galvanized steel; MDF), inside which are placed filtering packages 2 from minipleat filter media under a corner to a direction of air flow. Filter media is made from fiberglass. In case of the filter there is a flange 3 by which filter is tightly placed in apertures of adjusting frames. Filtering packages are hermetised in a case by the special adhesive.

The rubber can be placed on the part of inlet and outlet of air on a flange 3 by request.

BASIC DIMENSIONAL SIZES



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Table 2

Filter index HFMF-F	Basic dimensional sizes, mm			Nominal air flow , m ³ /h for classes: F6, F7, F8, F9	Filtration area, m ²
	height H	width B	depth L		
(*) 22	592	592	292	5000	35,0
(*) 21	287	592	292	2500	17,0
(*) 24	490	592	292	4150	30,0

(*) - digit, denoting filter class by EN 779.

MAINTENANCE

When the filters are in operation it is necessary to check their pressure drop by readings of manometer attached to connecting pipes, arranged in walls of air cleaning chambers before and after filters.

Upon reaching pressure difference recommended for this filter, or based on available system pressure, it is necessary to replace filters.

