Compact minipleat filters of type CMPF

Compact minipleat filters of type CMPF are used for effective cleaning of air from finely dispersed aerosols in systems of general ventilation and air-conditioning. They can be also used as pre-filters before highly effective and ultra highly effective filters (HEPA and ULPA).

At cleaning of large volume air these filters can be placed in filtering chamber of type CMPF (look the catalogue of company "Air Filters F")

The filters can be used in various industries, including for air cleaning in gas-turbine and compressor units.
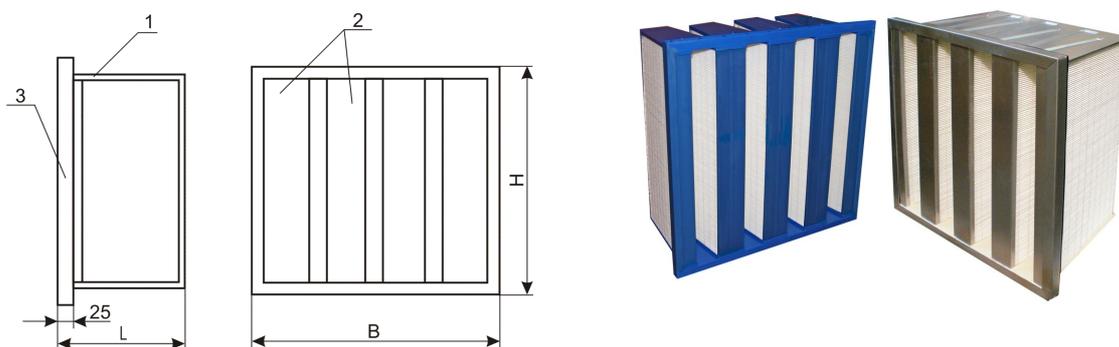

Fig. 1 Scheme of filter CMPF

CHARACTERISTICS

Table 1

Class of filter CMPF by EN 779	Nominal specific air flow, m³/hm²	Resistance, Pa	
		Initial	Recommended final
F6	12 140 - 14 290	90-120	450
F7		100-140	
F8		110-150	
F9	10 000 – 12 000	120-180	

The filter should be used at air temperature from -40°C to +80°C and relative humidity up to 95%.

GENERAL DESIGN

The filter consists of body 1 (aluminium steel or plastic) inside which filtering packs 2 from minipleated filter medium are placed at angle relative to air flow direction. The filter medium is made of glassfiber. Filter body has flange 3 for its sealing in adjusting frames («windows»). Filtering packs are sealed in the body with a special adhesive.

BASIC DIMENSION-TYPES

<div align="right">Table 2</div>

Index of filter CMPF	Dimensions, mm			Nominal air flow for classes F6, F7, F8, m³/h	Nominal air flow for classes F9, m³/h	Filtration area, m²
	Height H	Width B	Depth L			
(∗) 22	592	592	292	4 250-5000	3 500-4 250	18,0
(∗) 21	287	592	292	2 100-2 500	1 750-2 180	9,0
(∗) 26	490	592	292	3 500-4 150	2 900-3 600	13,0

∗ - digit, denoting filter class by EN 779.

MAINTENANCE

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

Upon reaching pressure difference specified in the project, or based on available pressure in ventilating system, it is necessary to replace filters.