Reversed compact minipleat pre-filter (CMPF-R)

Reversed CMPF (CMPF-R) filter is specially designed to use as Pre-filter (G4 class or higher up to F7) for cleaning the cyclic air from dust in the Air Inlet Systems (AIS) of gas turbine and compressor units.

Standard CMPF-R filter is used of G4 class and installed "face-to-face" (flange to flange) in pare with the fine CMPF filter in classes F7-F9. The filter media area is increased up to 2-5 times more in comparison with the standard pre-filter (PF). It allows to reduce resistance (the initial pressure drop) and increase service life with highly cost-efficient of non-stop operation for gas turbines and compressor units (GTU).

CMPF-R filters are available in 3 (three) sizes according to the depth (length in the course of air): standard 292 mm and increased 400 and 600 mm.

Standard CMPF-R filters are produced in G4 class according to EN779. Moreover, they also can be produced with higher classes: M5-M6 and F7 according to EN779, upon to request from the clients.

TECHNICAL DATA

	Description	Measures		
		Model 292	Model 400	Model 600
1	Dimensions, mm:			
	Width	592		
	Height	592		
	Depth	292	400	600
2	Filter media	minipleat progressively-structured filter media of polyester or fiberglass media		
3	Gasket	foamed one-piece PU on the side of the air outlet		
4	Nominal air flow, m^3/h	3400-5000 (depending on classes G4, M5-M6, F7)		
5	Initial Pressure Drop, Pa (*), (3400 m3/h)	105	85	75
6	Recommended Final Pressure Drop, Pa (**)	450÷600		

Notes:
** - data are presented for filter class G4*
*** - Recommended Final Pressure Drop is depending on classes (G4, M5-M6, F7)*

Filters are operative and retains their specifications at operating environment temperature (cleaned air) from -60ºC to +80ºC and relative humidity up to 100%.

CMPF-R filter consists of a body made of plastic, inside which at an angle to the direction of the air flow are installed the filtering packs are made of minipleat filter media, which additionally could be reinforced with a metal galvanized mesh on the side of the air outlet. The body of the filter has a flange, along the perimeter of which caused a gasket to seal with the corresponding flange of the fine filter of CMPF type. Filtering packs are sealed in the body with a special leak proofing material.

The scheme of installation the filter of CMPF-R type together with the fine filter of CMPF type is shown in Fig.1 and Fig.2.

Fig.1 – Scheme of 2-Step Filtration

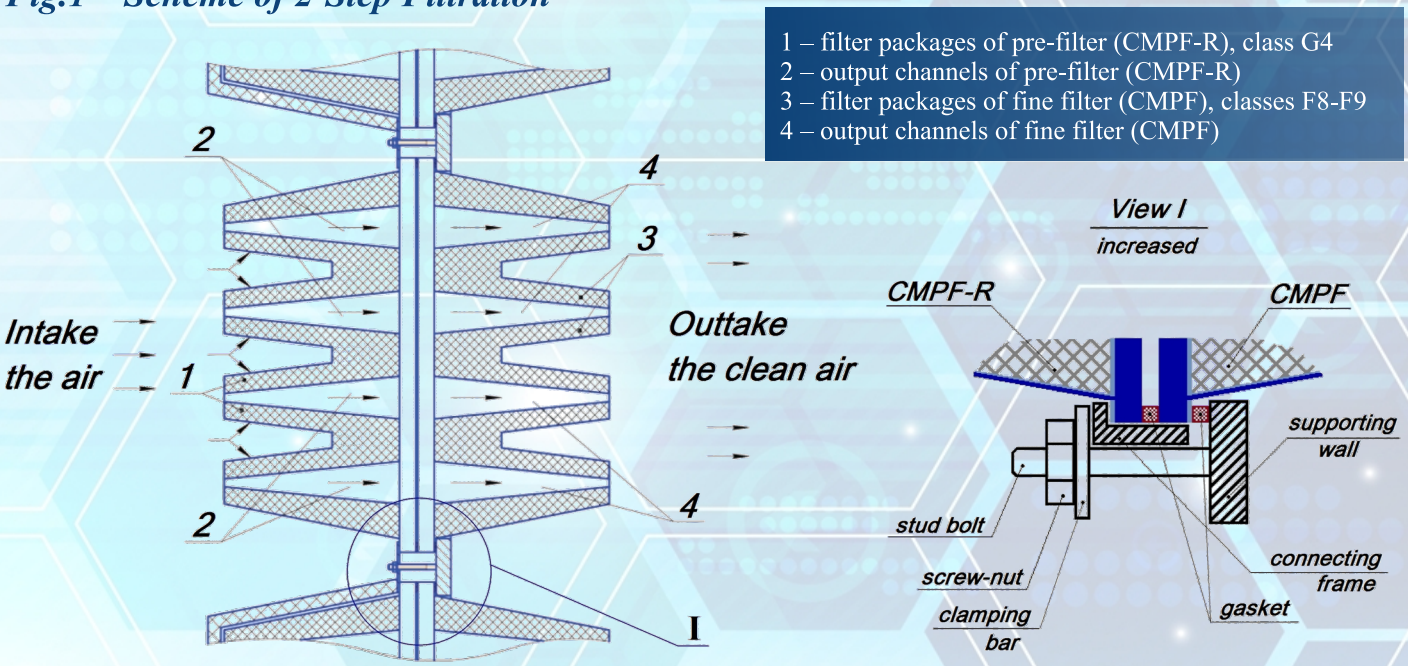
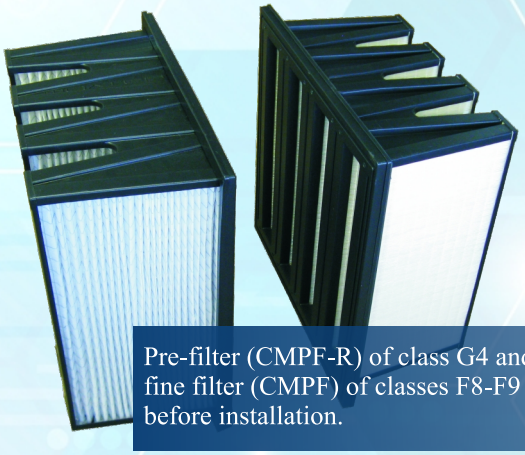
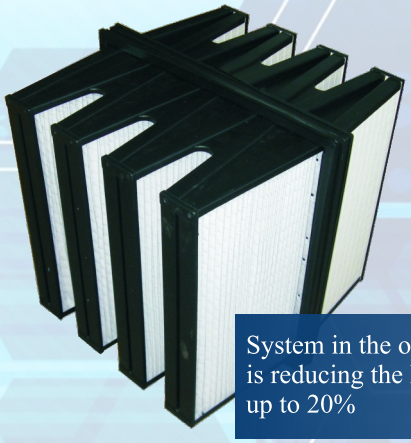


Fig.2 – Schematic diagram of installation CMPF-R and CMPF filters



Pre-filter (CMPF-R) of class G4 and fine filter (CMPF) of classes F8-F9 before installation.



System in the operating mode is reducing the Pressure Drop up to 20%

Applying the proposed Scheme of 2-Step Filtration allows to reduce resistance (the Pressure Drop) up to 20% and increase the service life (period) of the pre-filter CMPF-R, thus ensuring a non-stop operation of the gas turbine unit (GTU) for at least a year, with an increase in the efficiency of the GTU.

The manufacturer reserves the right to make changes in the design of the product that does not impair its technical characteristics.

Additional information about products can be provided upon request.

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