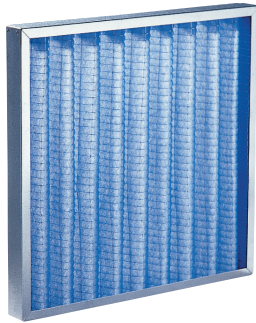


F12

Corrugated filter cells



Product

F12

Material

Galvanized sheet metal with protective mesh

Filter media

Polyester fibres with special pleating

SPECIFICATIONS

Corrugated filter cells, model F12, consisting of a robust galvanized sheet metal frame with galvanized protection mesh enclosing a polyester fibre filter media.

FUNCTIONS

Filtration and pre-filtration of higher efficiency filters in stages.

APPLICATIONS

Civil and industrial ventilation and air conditioning systems, air handling units, filter walls, pre-filtration and separation of coarse and fine dust, first stage in filter modules.

ON REQUEST EFFICIENCY M5/F7

TECHNICAL FEATURES

Filter material	Polyester fibres
Regenerability	Yes
Flame behaviour	DIN 53438 F1
Class EN 779 / ISO 18690	G4 / ISO coarse 75%
Thickness (mm)	48, 98
Initial pressure drop (Pa)	50 (sp. 48) – 60 (sp. 98)
Recommended final pressure drop (Pa)	200 (sp. 48 - sp. 98)
Dust accumulation capacity (g/m ²)	494
Average separation degree (%)	90,1
Limit temperature value (°C)	70
Recommended face velocity (m/s)	1,5
Relative humidity (%)	100
Available dimensions (mm)	From 100x100 to 1500x1000



PERFORMANCE

Front dimensions (mm)	Air flow rate (m ³ /h)									
	Air velocity (m/s)									
	0,5		1		1,5		2		2,5	
	Th. 48 mm	Th. 98 mm	Th. 48 mm	Th. 98 mm	Th. 48 mm	Th. 98 mm	Th. 48 mm	Th. 98 mm	Th. 48 mm	Th. 98 mm
287 x 592	530	620	1060	1230	1590	1840	2120	2450	2640	3070
400 x 400	500	590	1000	1170	1490	1760	1990	2340	2480	2930
400 x 500	620	730	1240	1460	1850	2190	2470	2910	3080	3640
400 x 625	780	910	1560	1810	2330	2710	3110	3610	3880	4510
500 x 500	770	910	1540	1820	2310	2730	3080	3640	3850	4550
500 x 625	970	1130	1940	2260	2910	3380	3880	4510	4850	5640
592 x 592	1090	1270	2180	2530	3270	3790	4360	5060	5450	6320
ΔP (Pa)	21		50		64		95		124	

INSTALLATION

F12 filter installation can be done in 2 ways:

- 1) Flat arrangement, perpendicular to the airflow for low face velocity up to 1.5 m/s within suitable U-shaped guides
- 2) Housed in dedicated duct sub-frames (F23) for air face velocity up to 2.5 m/s.

MAINTENANCE

The filter must be regenerated or replaced when the recommended final pressure drop is reached or at the maximum indicated limit. This model has limited regenerability.

DISPOSAL

F12 filters are built with inert materials that, if not contaminated by toxic-harmful substances from use, can be disposed of as municipal solid waste.