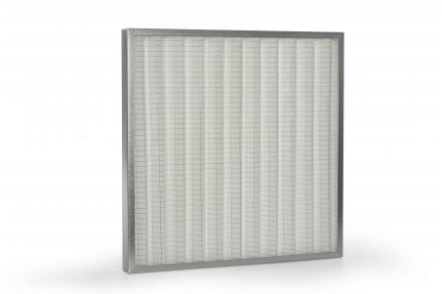
EFPO Synthetic pleated filter cells



Description

Synthetic corrugated filtering cell with U section frame in galvanized steel, double corrugated net in electro-welded galvanized wire that supports the polyester synthetic fiber filtering fabric.

Characteristics

Material : galvanised steel support frame 6/10 thick.
Electrowelded galvanised wire mesh 12x24x0,8.
EFRF 200 g/m filter media.

Use

Pre-filtration in air ventilation and air conditioning systems.
The corrugated version guarantees a greating filtering surface with the same size.
The proportion between the filter surface and the front surface is 2:1 with 48 mm thickness and about 3:1 with 98 mm thickness.

On demand

Non-standard front dimensions.
Special thicknesses from 40 to 200 mm.

Operating data

Pa : pressure drop in Pascal.

Caratteristiche tecniche e limiti di impiego	
CLASSE di efficienza secondo EN ISO 16890:2016	ISO COARSE
Classe di efficienza (CEN EN779-2012):	G4
Efficienza gravimetrica media:	90%
Grammatura tessuto filtrante	200 gr/mq
Temperatura massima di impiego:	100°C
Umidità relativa:	100%
Perdita di carico iniziale:	43Pa
Perdita di carico finale consigliata:	250Pa
Perdita di carico massima:	400Pa
Capacità di raccolta polvere:	351gr/mq
Velocità frontale consigliata:	1,5m/s
Rapporto superficiale filtrante/superficie filtro:	2:1 per lo spessore 48mm
	3:1 per lo spessore 98mm
Reazione al fuoco (DIN53438/3):	CLASSE F1
Reazione al fuoco NF-F-16-101	M1

Dimensions and price list

Dimensions are expressed in mm

Item normally available from stock

model	filter cell EFPO	filter cell EFPO
	thickness 48	thickness 98
	euro	euro
400x400	⌄	⌄
500x400	⌄	⌄
625x400	⌄	⌄
500x500	⌄	⌄
625x500	⌄	⌄
592x592	⌄	⌄
592x287	⌄	⌄
490x592	⌄	⌄

How to calcolate the filter capacity:

Q (mc/h) = A (mq) x V (m/s) x K x 3600 **A**: filter surface, **V**: air velocity and **K:** moltiplication constant (equal to 2 for thickness 48 mm and equal to 3 for thickness 98 mm). **EXAMPLE OF CALCULATION OF THE AIR FLOW CAPACITY OF A 400x400 FILTER, 48 mm THICKNESS:** Q = (0,4 x 0,4) x 1,5 x 2 x 3600 = 1728 mc/h