

C-Cell Minipleat

Secondary Filters F6 60-65% F7 80-85% F8 90-95% F9 >95%



General Characteristics

C-Cell Minipleat filters are widely used in all applications. With minipleat design, the inline filter depth is only 4" as compared to traditional secondary 12" depth filters. High media area and low pressure drop allows long life usage. This filter is used in replacement of secondary 12" depth filters or to extend replacement periods in electronics & injectable production, pharmaceutical production, nuclear establishments, industrial and chemical processing, hospitals and laboratories, AHU of biosafety laboratories, public and office buildings, airport airconditioning systems, pulp and paper mills, oil refineries, gas turbines and plastics manufacturing.



Description: C-Cell Minipleat
Nominal Size: 24 x 24 x 4"
Actual Size : 595 x 595 x 95mm

- + Secondary Filter with F6 – F9 efficiencies
- + 4" depth Minipleat with thermoplastic separators
- + 100% Polypropylene and anti-microbial
- + Kraft Board, Galvanised Steel or Aluminium Frame with Single Header Option
- + Extended Surface Media Area
- + Extremely Durable

Construction

Filter Media

The filter media is 100% polypropylene made with a modified melt-blown process. The graded fibre density ensures coarse fibres upstream and fine fibres downstream, giving optimum particle capture characteristic. The media is then manufactured through a process where plastic separators are added to give a unique pleated V- configuration ensuring high media area, low resistance and long lifespan.

The filter is sealed with a water-based adhesive and is enclosed with a moisture resistant Kraft board or galvanised steel or aluminium and completes as a no header rigid box cartridge filter of 4" (95mm) inline depth only instead of traditional 12" (290mm). Optional 22mm Single header kraft board and galvanised steel are available

The final minipleat filter is extremely durable with high compressive strength in the airflow direction. It has been tested to burst strength of 6250 Pa. The durability also ensures that there will be no damage to pleats during transportation or assembly. Compact size and Kraft Board design allows easier disposal.

The filter media is anti-microbial and is a by-product of manufacturing process and does not require the addition of any chemicals.

The filter can be manufactured in both 6" or 12" depth No Header (NH) or Single Header (SH) frames to replace traditional 6 or 12 inches filters.



Description: C-Cell Minipleat, Gi, SH
Nominal Size: 24 x 24 x 4"
Actual Size : 595 x 595 x 95mm
Single Header 22mm

C-Cell Minipleat

Secondary Filters F6 60-65% F7 80-85% F8 90-95% F9 >95%, E10/E11 95% @0.3um

Specifications

Model	C60		C80		C90		C90		CH10	
	C-Cell 60-65%		C-Cell 80-85%		C-Cell 90-95%		C-Cell >95%		SemiHEPA E10/E11	
Nominal Thickness	2"	4"	2"	3-4"	2"	3-4"	2"	3-4"	2"	3-4"
Initial Pressure Drop at 2.5m/s ** 1.5m/s	110	87	165	111	200	151	**125	185	**150	**125
Filter Class EN779 / Eurovent 4/4	M6		F7		F8		F9		E10/E11	
ASHRAE 52.1-1992 @>5.0um Average Synthetic Dust Weight Arrestance	95%		99%		99%		99%		99%	
ASHRAE 52.1-1992 @>1.0um Average Atmospheric Dust Spot Efficiency	60-65%		80-85%		90-95%		>95%		>99%	
ASHRAE 52.2-2012 Range 1 (0.30-1.0um)	>35%		>50%		>75%		>85%		>95%	
ASHRAE 52.2-2012 MERV	MERV 12		MERV 13		MERV 14		MERV 15		MERV16	
Media Area m ²	5.5	11.0	5.5	7.5/11.0	5.5	7.5/ 11.0	5.5	7.5 / 11.0	5.5	7.5 / 11.0

Performance data is based on ASHRAE 52.2-2012 Test method entitled "Method of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by particle size, other data provided is for comparison and information. MERV: Minimum Efficiency Reporting Value

Dimensions

Nominal Size L x H inches	Actual Size L x H mm	Rated Air Flow cmh	pc Weight kg Thickness 4" / 3" / 2"	Packing pcs per carton 4" / 3" / 2"	Packing pcs per carton Gi 4" / 3" / 2"
12 x 24	289 x 595	1700	1.5 / 1.2 / 0.8	10 / 12 / 20	6 / 8 / 12
16 x 20	395 x 495	1880	1.7 / 1.3 / 0.9	8 / 9 / 16	3 / 4 / 6
16 x 24	395 x 595	2265	2.7 / 2.0 / 1.4	7 / 8 / 14	3 / 4 / 6
16 x 25	395 x 622	2380	2.7 / 2.0 / 1.4	7 / 8 / 14	3 / 4 / 6
18 x 24	444 x 595	2550	2.3 / 1.8 / 1.3	6 / 7 / 12	3 / 4 / 6
20 x 20	495 x 495	2380	2.1 / 1.5 / 1.1	6 / 8 / 14	3 / 4 / 6
20 x 24	495 x 595	2830	2.7 / 2.0 / 1.4	6 / 7 / 12	3 / 4 / 6
20 x 25	495 x 622	2975	2.7 / 2.0 / 1.4	6 / 7 / 12	3 / 4 / 6
24 x 24	595 x 595	3400	3.0 / 2.3 / 1.5	5 / 6 / 10	3 / 4 / 6

Single Header (SH) KraftBoard: 115mm, GI SH and Box(NH): 95mm.
Odd sizes can be custom fabricated accordingly. Width and height dimensions are interchangeable
Metal Enclosing Frame can be fabricated for 2", 4", 6", 12" depth filters and all length and widths

Technical Data

Filter Media

Polypropylene Synthetic

Enclosing Frame

Kraft Board for NH and SH

Option: Galvanised Steel (Gi), Aluminium (Al)

Header

No Header (NH) Box, Single Header (SH) 22mm

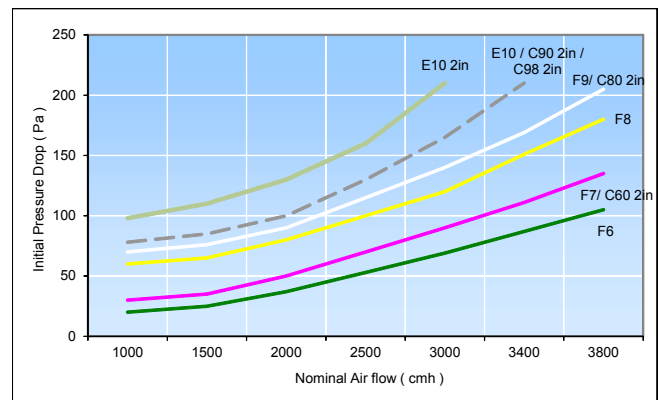
Separator

Hotmelt

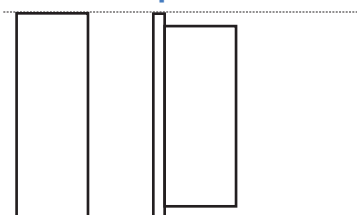
Sealant

Water based Glue or Hotmelt / Polyurethane

Continuous Operating Temperature 70°C
Relative Humidity 90%
Recommended Final Pressure Drop 250-375 Pa
Maximum Final Pressure Drop 450 Pa



Header Option



Standard Kraftboard for NH & SH, GI, GI SH
Box (NH) Single Header (SH)