

DURA-PLEAT

Extended Surface Air Filters

Available in Blue and Green



Dura Pleat (EU4/G4)

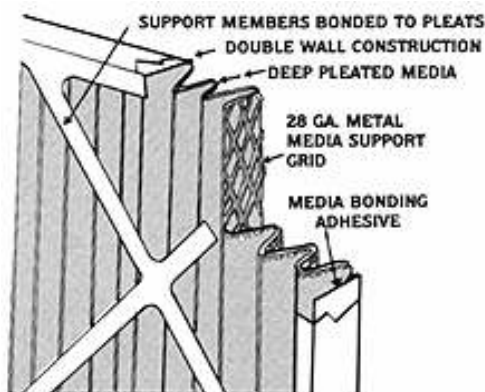
Construction

All our panel filters are constructed with enclosure frames made of two die-cut pieces of heavy duty White Lined Board bonded together to form a double wall. It is treated with a moisture resistant additive to prevent collapse during high humidity. The support members of the enclosure frame are bonded to the media and grid combination to maintain correct pleat spacing.

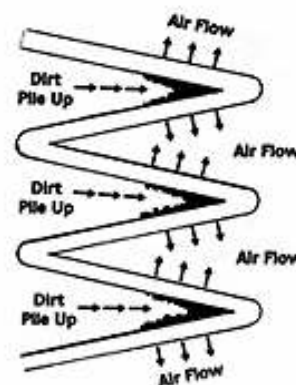
The filter media is made up of reinforced non-woven cotton fibres manufactured for high dust holding capacity. The filter media is bonded to an expanded metal (diamond pattern) support grid. The grid has a 98% open-face area for increased media utilisation. The media and grid design is bonded to the periphery of the enclosure frame to prevent air bypass. This design provides uniform pleat configuration for maximum performance.

Design

The Dura-Pleat operates on a principle of filtration, which utilises controlled pleat spacing and alignment. This controlled configuration ensures uniform airflow throughout the filter. Initially the least resistance to airflow is at the bottom of the pleat where contaminants are filtered out. As the contaminants build up, the resistance at the bottom of the pleat increases and airflow gradually moves up the sides of the pleat. Larger dirt particles are trapped in the back of the pleat as their inertia prevents directional change, while the smaller particles, being able to change direction are caught along the sides of the pleat. As the particulate matter builds up it functions as an additional filtration medium.



Construction



Principle of Filtration

Performance

Air filter performance is measured by dust holding capacity and filtration efficiency. Greater dust holding capacity means longer service life and lower operating costs. Great efficiency means cleaner air and reduced maintenance costs. Dura-Pleat filters excel in both of these performance characteristics.

The Dura-Pleat "B" type SC40 and type HC40 have an average efficiency of 30 to 35% and an average arrestance of 93%.

The Dura-Pleat filter is approved by Underwriters Laboratories as a Class 2 air filter unit when tested in accordance with U.L. Standard 900.

Summary

- High efficiency
- Extensive dust holding capabilities
- Extended surface area
- Longer Life
- Operates as either Pre or Final filter

Applications

May be used either as a pre-filter or final filter. The extended surface area gives low pressure drops with a high dust holding capacity.

- Hotels
- Offices
- Hospital
- Food production
- Pre-filtration asbestos removal
- General air conditioning and most applications

Technical Data

Type SC40 22mm (14 pleats) 47mm (10 pleats) 98mm (08 pleats) All per 300 mm	Nominal H x W	Actual H x W	Rated Air Flow (m3/h)			Initial Pressure Drop (Pa)		
			22mm	47mm	98mm	22mm	47mm	98mm
	20x10	496x240	1190	1190	-	104	60	65
	20x16	496x395	1870	1870	2380	104	60	65
	20x20	496x496	2380	2380	2975	104	60	65
	25x16	620x395	2380	2380	2975	104	60	65
	25x20	620x496	2975	2975	3740	104	60	65
	24x12	596x287	1700	1700	2125	104	60	65
	24x24	596x596	3400	3400	4250	104	60	65
Final recommended pressure drop 250 Pa								

Type HC40 22mm (16 pleats) 47mm (15 pleats) 98mm (11 pleats) All per 300 mm	Nominal H x W	Actual H x W	Rated Air Flow (m3/h)			Initial Pressure Drop (Pa)		
			22mm	47mm	98mm	22mm	47mm	98mm
	20x10	496x240	1190	1190	-	104	60	65
	20x16	496x395	1870	1870	2380	104	60	65
	20x20	496x496	2380	2380	2975	104	60	65
	25x16	620x395	2380	2380	2975	104	60	65
	25x20	620x496	2975	2975	3740	104	60	65
	24x12	596x287	1700	1700	2125	104	60	65
	24x24	596x596	3400	3400	4250	104	60	65
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Recommended Final Pressure Drop 250Pascals