

AIRCLEAN

YOUR AIR FILTER MANUFACTURER

P.O. BOX 147,
MAIDSTONE, ME14 2LA.

TEL:01622 832777
FAX:01622 832507

sales@airclean.co.uk www.airclean.co.uk

Pleated Panel Filters

Applications

The Pleated Panel is a medium efficiency disposable filter, suitable for ventilation and air conditioning systems which require a higher efficiency and greater dust holding capacity than can be achieved with glass or synthetic panels.

The Pleated Panel can be used where glass panels are undesirable, such as in the food industry and hospitals.

Construction

Pleated filters consist of a dry non-woven fabric media, pleated to give an extended surface area, producing a low initial resistance for the same air volume.

The pleated assembly is contained within either a rigid all cardboard casing, or a cardboard frame with perforated cap-punch retaining grids.



Technical

Filter Classification:	Grade G4 to EN779.
Maximum operating temperature:	100°C (212°F)
Dust Holding Capacity:	840 g/m ² (2") and 1260 g/m ² (4") to EN779

Resistance to Airflow

M/s fpm	Face Velocity									
	1.25 250		1.50 300		2.0 400		2.5 500		3.0 600	
Pressure Drop	Pa	"wg	Pa	"wg	Pa	"wg	Pa	"wg	Pa	"wg
2" Panel	22	0.09	27	0.11	50	0.20	70	0.28	-	-
1" Panel	25	0.10	30	0.12	55	0.22	75	0.30	87	0.35

Recommended discard resistance is 125 Pa (0.5"wg) in excess of clean resistances shown above for a 2" panel and 150 Pa (0.6"wg) for 4" panel.

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Capacity Chart (2" Pleated Panels)

Data based on Face Velocity of 2.5 m/s (500 fpm)

SIZE		Flow Rate	
Nominal mm	Nominal inches	m ³ /s	cfm
254 x 254	10 x 10	0.15	330
305 x 305	12 x 12	0.22	480
381 x 381	15 x 15	0.35	760
457 x 457	18 x 18	0.51	1090
508 x 254	20 x 10	0.31	670
508 x 381	20 x 15	0.47	1010
508 x 406	20 x 16	0.50	1080
508 x 508	20 x 20	0.63	1360
635 x 406	25 x 16	0.63	1350
635 x 508	25 x 20	0.79	1700
610 x 305	24 x 12	0.45	970
610 x 508	24 x 20	0.76	1630
610 x 610	24 x 24	0.91	1960

Actual Face Size = Nominal Size less 6mm (0.25")
Actual thickness = Nominal thickness less 3mm (0.125")

Capacity Chart (4" Pleated Panels)

Data based on Face Velocity of 3.0 m/s (600 fpm)

SIZE		Flow Rate	
Nominal mm	Nominal inches	m ³ /s	cfm
254 x 254	10 x 10	0.18	400
305 x 305	12 x 12	0.27	580
381 x 381	15 x 15	0.42	910
457 x 457	18 x 18	0.61	1310
508 x 254	20 x 10	0.37	800
508 x 381	20 x 15	0.56	1220
508 x 406	20 x 16	0.60	1300
508 x 508	20 x 20	0.76	1630
635 x 406	25 x 16	0.75	1620
635 x 508	25 x 20	0.95	2040
610 x 305	24 x 12	0.54	1170
610 x 508	24 x 20	0.91	1960
610 x 610	24 x 24	1.09	2360

Holding Frames and Casings

Holding frames and casings for Disposable Pleated Panels are available singularly or in multiples, and can be manufactured to suit non-standard sizes and special applications. See leaflets (code AC8) for full technical information.

The company reserves the right to change specifications without notice. E&OE

Code AC1/3b Ref 05/06