

# AIRCLEAN

YOUR AIR FILTER MANUFACTURER

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

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## Disposable Synthetic Panels

### Applications

The disposable Synthetic Filter is a medium efficiency filter suitable for ventilation and air conditioning systems, providing a slightly better performance than the cheaper fibreglass filter.

The construction of the synthetic filter makes it less liable to shed fibres than the fibreglass filter, and therefore much more suitable for installations such as the food industry and hospitals.

### Construction

These filters consist of a dry, graduated, high loft and fully flame retardant synthetic fibre media, housed in either a rigid all cardboard casing, or a cardboard frame with perforated cap-punch grids.

Stiffening bars can be provided if required.

Our method of manufacture for this style of filter utilises modern hot-melt adhesive techniques, which produce an



### Technical

<b>Filter Classification:</b>	Grade G3 to EN779.
<b>Maximum recommended face velocity:</b>	2.25m/s (450 ft/min)
<b>Maximum operating temperature:</b>	100°C (212°F)
<b>Dust Holding Capacity:</b>	844 g/m <sup>2</sup> EN779 (2" Panel)
<b>Flammability - Media:</b>	Flame Retardant to DIN 53438

### Resistance to Airflow

m/s fpm	Face Velocity							
	1.25 250		1.50 300		2.0 400		2.25 450	
<b>Pressure Drop</b>	Pa	"wg	Pa	"wg	Pa	"wg	Pa	"wg
<b>1" Panel</b>	38	0.15	45	0.18	60	0.24	66	0.26
<b>2" Panel</b>	40	0.16	50	0.20	65	0.25	73	0.29

Recommended discard resistance is 125 Pa (0.5"wg)  
in excess of the clean resistances shown above.

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## Typical Airflow Characteristics

### Capacity Chart

Data based on Face Velocity of 2.0 m/s (400 fpm)

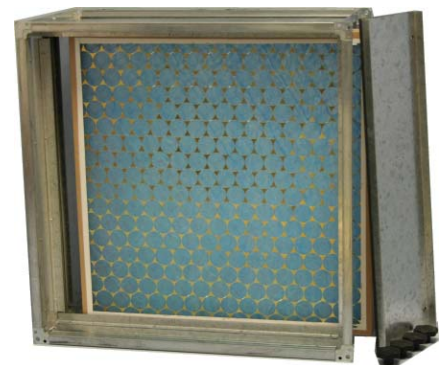
SIZE	SIZE	Flow Rate
OT Inches	Actual mm	m <sup>3</sup> /s
10 x 10	242 x 242	0.12
12 x 12	289 x 289	0.17
15 x 15	369 x 369	0.27
18 x 18	445 x 445	0.40
20 x 10	495 x 242	0.25
20 x 16	495 x 394	0.40
20 x 20	495 x 495	0.50
25 x 16	620 x 394	0.50
25 x 20	620 x 495	0.63
24 x 12	594 x 289	0.34
24 x 20	594 x 495	0.59
24 x 24	594 x 594	0.72

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

### Holding Frames and Casings

Holding frames and casings for Disposable Synthetic 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 information.



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

Code AC1/2b Ref 06/11