

## Rod Framed Fan Coil Unit Filters Grade G2 to EN779:2012

### Applications

The Rod Framed Filter is a washable panel used widely in small air conditioning and fan coil units, warm air furnaces, refrigeration counters and electronic equipment cabinets. It is a low resistance filter often used to protect heat exchanger coils from dust, carpet fluff etc.



### Description

The traditional Rod Framed Filter has the filter media supported by a coated rigid rod frame constructed from 3mm coated steel rod.

There are three versions of Rod Framed Fan Coil Filters available.

- (a) Disposable Synthetic A70 material (white) approximately 6mm thick, stitched to a wire frame
- (b) Washable Polyurethane foam media (Polyfoam) normally 6mm thick on a wire frame.
- (c) Disposable Synthetic media A70 folded over and stapled to 12mm square 1mm wire mesh, which provide a higher level of media rigidity, whilst providing a budget product.

With a Polyfoam style Rod Framed / Fan Coil Unit Filter the pore size of the foam can be varied to suit requirements. These can range from 20 to 60 pores per inch (ppi), with 20 or 30 ppi being standard and most common, offering a low efficiency filtration with a low resistance to airflow.

Handles or tapes/loops can be added to rod framed filters or fan coil unit filters to aid with fitting or the removal of the filter from its housing.

This type of filter can be manufactured to any reasonable size, typically 300mm x 1200mm max.

### Technical

Filter Classification : Grade G2/G3 to EN779

Maximum Operating Temperature : 100°C (212°F)

Maximum Recommended Face Velocity 2.0 m/s : (400 ft/min)

Face Velocity		Type of Filter Media									
		Synthetic A70		Polyfoam 0.25" 20PPI		Polyfoam 0.25" 30PPI		Polyfoam 0.25" 45PPI		Polyfoam 0.25" 60PPI	
m/s	fpm	Pa	"wg	Pa	"wg	Pa	"wg	Pa	"wg	Pa	"wg
1.0	200	7	0.03	4	0.015	7	0.028	10	0.04	18	0.07
1.5	300	12	0.05	7	0.028	12	0.050	18	0.07	33	0.13
2.0	400	20	0.08	11	0.043	20	0.080	30	0.12	50	0.20
2.5	500	30	0.12	17	0.065	30	0.120	40	0.16	76	0.30