



**filterfit**  
engineered filtration solutions

## Filtration Equipment

# Engineered filtration solutions

Filterfit manufactures and provides a wide range of filtrations solutions to suit the industrial, commercial and medical industries

## Air filters & services

- Bulk Media & Cut Pads
- Roll Filters
- Panels & Frames
- Deep Bed Filters
- Carbon Filters
- Cartridge Filters
- Mist Eliminators
- HEPA Filters
- ULPA Filters
- Terminal HEPA Modules
- Electrostatic filters
- HEPA certification
- Cleanroom validation
- Duct & Coil Cleaning
- Kitchen canopy cleaning
- Installation
- Industrial Cleaning

## Industrial dust filtration

- Cartridges
- Dust Bags
- Flexible Transitions
- Nylons
- Milling Accessories
- Filtration Hardware
- Laboratory Analysis
- Preventative Maintenance
- Pleated paper and non-wovens
- To suit all types of dust collectors
- For all dry powder applications
- Sieving fabrics
- Sifter pads, balls & brushes
- Cages, clamps, venturis, gauges
- Media testing
- Dust collector inspections & reports

## Solid liquid separation

- Vessel Housing & Bags
- Micron Rated Monofilament cloths
- Calibrated Needlefelts
- Filter Cartridges

Together with our suppliers and manufacturing plant, a combined 50 years plus experience in filtration will ensure filtration solutions with the best performance.

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# Aluminium-framed 9mm & 11mm Lint Screens

- Ideal for applications where low cost & low pressure drop is required
- 8 & 11 mm frame depth
- Washable or disposable
- Classification G1-G4



## Construction:

Filters are manufactured from either 9 mm or 11 mm extruded aluminum frame incorporating rigid corner stakes to prevent any distortion and rattle.

The filter media is held into the frame by rubber spline, which ensures there is no air bypass between the media and the frame.

## Filter Media Types:

Lint screens are supplied standard with general grade, washable media type BR11, which incorporates a support scrim on the clean air side of the media to prevent media from ballooning and to provide support to the media when washing. Other filter media are available to suit each application.

## Application:

Generally used in small air conditioning and ventilation systems requiring low cost low resistance filters. Filters are usually fitted into slides in ducts or behind return air grilles. Filters are also used in filtering ventilation air for switch rooms etc. Media is not replaceable.

## Dimensions:

Lint screens are available with a frame depth of either 9 or 11 mm and can be manufactured to any dimension up to 1200 x 1200 mm, although, it is suggested sizes are kept below 900 mm x 800 mm for rigidity. Frame support braces are fitted to larger sizes.

# Aluminium-framed 9mm & 11mm Lint Screens

## Maintenance:

The filter panel is readily removed from the filter holding frame or slide. If the filter media is washable, the filter can then be cleaned by rinsing with cold water from a medium pressure hose, back through the clean air side of the media. Allow the filter media to fully dry before re-installing. Washable filters can be washed up to 5 times before the media needs to be replaced, however filter performance will progressively deteriorate with each wash.

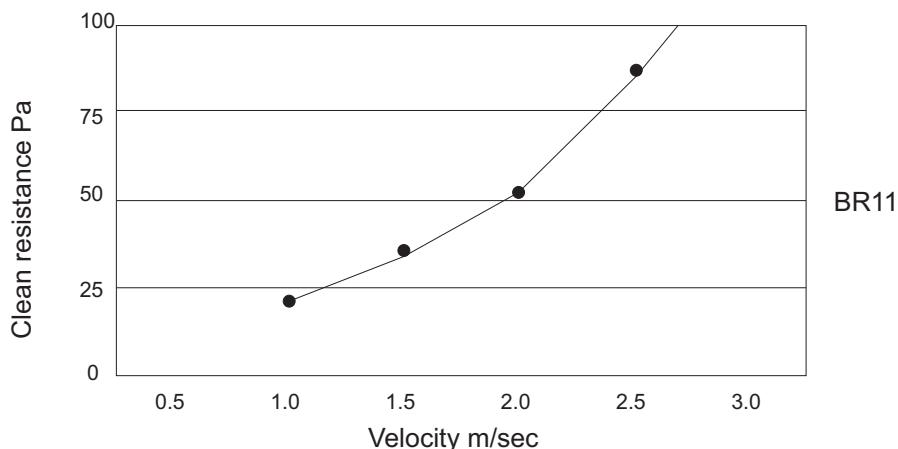


(Note: Local council water authorities may not permit discharge of run off from filter washing to enter storm water drains.)

## Performance data:

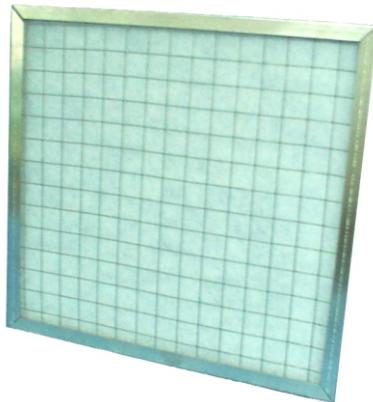
Part no.	Filter class	Media type	Face velocity m/sec	Initial resistance Pa.	Average arrestance %
7-0000	G2	BR6 washable	1.8 - 2.5	45 - 80	74
7-0001	G3	BR11 washable	1.8 - 2.5	45 - 80	85

\* Other media grades available on request



# Aluminium-framed flat panel filters

- Ideal for applications where low cost & low pressure drop is required
- 20 & 24 mm frame depth
- Washable
- Classification G1-G4



## Construction:

Filters are manufactured from either 20 mm or 24mm aluminum frame with galvanized wire mesh on both sides to provide media support.

usually fitted into slides in ducts or behind return air grilles. Medium is not replaceable. (For replaceable media type, see Gate type RM panel.)

## Filter media types:

Filters are supplied standard with medium grade washable media type BR16.

Other filter media are available to suit each application.

## Dimensions:

Filters are available with a frame depth of either 20 or 24 mm, special depths are available on request.

Filters can be manufactured to any dimension up to 1200 x 1200 mm, although, it is suggested sizes are kept below 900 mm x 800 mm for rigidity. Frame support braces are fitted to larger sizes.

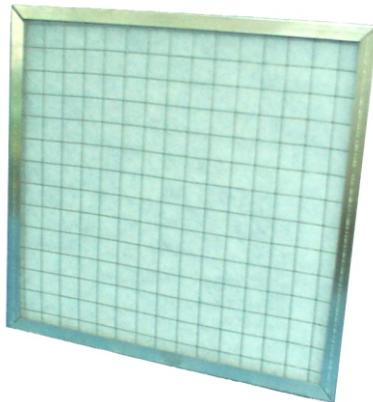
## Application:

Generally used in small air conditioning and ventilation systems requiring low cost, low resistance filters. Filters are

# Aluminium-framed flat panel filters

## Maintenance:

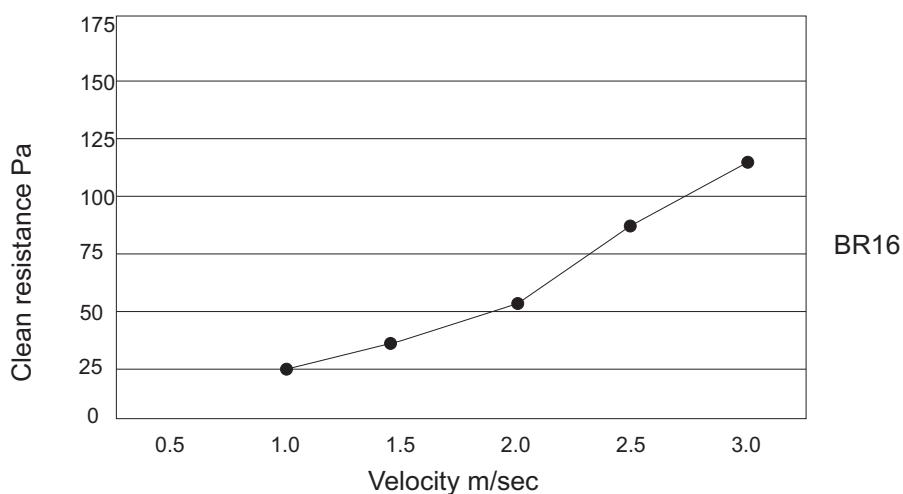
The filter panel is readily removed from the filter holding frame or slide. If the filter media is washable, the filter can then be cleaned by rinsing the filter with cold water from a medium pressure hose, back through the clean air side of the media. Allow the filter media to fully dry before re-installing. Washable filters can be washed up to 5 times before the media needs to be replaced, however filter performance will progressively deteriorate with each wash.



(Note: Local council water authorities may not permit discharge of run off from filter washing, to enter storm water drains.)

## Performance data:

Part no.	Filter class	Media type	Face velocity m/sec	Initial resistance Pa.	Average arrestance %
7-1005	G2	BR18 washable	1.8 - 2.5	45 - 80	74
7-1004	G3	BR16 washable	1.8 - 2.5	50 - 84	85



# V-Form washable aluminium or plastic-framed panel filters

- Ideal for applications where low cost & low pressure drop is required
- Plastic frame: 45mm only
- 45 & 90 mm frame depth
- Washable
- Classification G1-G4



## Construction:

Filters are manufactured from either 45 mm or 90 mm aluminium or plastic frame with galvanised wire mesh on both sides to provide media support. Media and wire is pleated to provide greater surface thus providing superior dust holding capacity to that of a flat panel filter.

## Filter Media Types:

Filters are supplied standard with medium grade washable media type BR16. Other filter media are available to suit each application.

## Application:

Generally used in small air conditioning and ventilation systems requiring low cost,

low resistance filters. Filters are usually fitted into slides in ducts or behind return air grilles. Media is not replaceable.

## Dimensions:

Filters are available with a frame depth of either 45 mm plastic or 45 & 90 mm aluminium frames, special depths are available in aluminium on request.

Filters can be manufactured to any dimension up to 1200 x 1200 mm, although, it is suggested sizes are kept below 900 mm x 800 mm for rigidity. Frame support braces are fitted to larger sizes.

# V-Form washable aluminium or plastic-framed panel filters

## Maintenance:

The filter panel is readily removed from the filter holding frame or slide. If the filter media is washable, the filter can then be cleaned by rinsing the filter with cold water from a medium pressure hose, back through the clean air side of the media. Allow the filter media to fully dry before re-installing. Washable filters can be washed up to 5 times before the media needs to be replaced, however filter performance will progressively deteriorate with each wash.

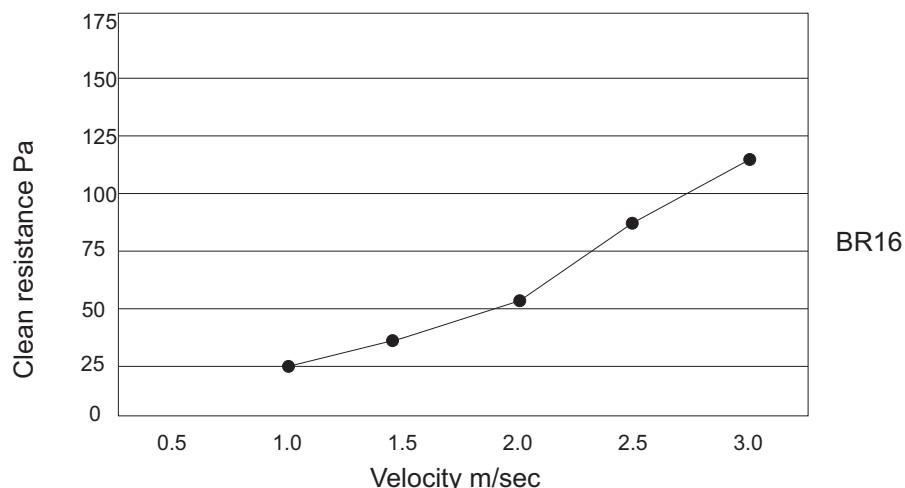
(Note: Local council water authorities may not permit discharge of run off from filter washing to enter storm water drains.)



## Performance data:

Part no.	Filter class	Media type	Face velocity m/sec	Initial resistance Pa.	Average arrestance %
7-3006	G3	BR16 washable (45mm depth)	1.8 - 2.5	50 - 65	85
7-3216	G3	BR16 washable plastic frame (45mm depth)	1.8 - 2.5	50 - 85	85
7-3007	G3	BR18 washable (45mm depth)	1.8 - 2.5	32 - 42	74
7-4008	G3	Br18 washable (90mm depth)	1.8 - 2.5	35 - 47	85

\* For Holding frame part numbers please refer to Holding frame data on page 32



# Aluminium-framed disposable panel filters

- Complies with AS1668.2
- Light gauge aluminum frame
- Ideal for high humidity applications
- Standard & non standard sizes
- Standard depths of 25, 45 and 90 mm
- Available with G4 or F5 media



## Construction:

Filterfit aluminium disposable filters are Type 1, Class A, dry disposable extended surface panel filters, which offer economical, intermediate efficiency and meet the requirements of AS1668.2, where the filter has an initial efficiency of not less than 20% to AS1324 No. 1 Test.

## Construction:

The filters are manufactured from a light gauge aluminum frame, which is impervious to moisture or humidity and can be easily recycled. The filter media is manufactured from a blend of synthetic fibres, which do not support combustion.

The filter media is pleated in a V form configuration to provide lower resistance and higher dust holding capacity to that of a flat panel filter, ensuring extended service life.

The filter media is bonded to a 25mm x 25mm wire mesh grid on the air leaving side of the filter, to provide media support, and is bonded into the aluminium frame to prevent air bypass.

## Filter media types:

Filterfit aluminium disposable panel filters are available standard with G4 rated disposable media type BR4. Higher efficiency F5 media type BR5 is also available on request.

## Applications:

Due to its low cost and extended service life, the filter is suited to a wide range of applications including general air conditioning and ventilation systems, process air systems, industrial applications and as pre filtration to higher efficiency filters.

Filters are generally installed into slides in ducts, however to ensure effectiveness, the filter should be installed utilising Filterfit panel filter mounting frames, which incorporate sealing gasket and spring clips to ensure a positive seal is formed against the filter face.

## Dimensions:

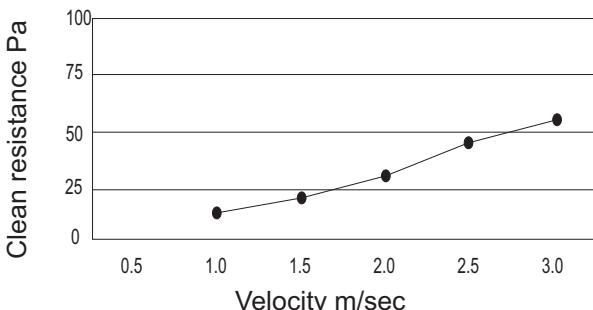
Filters are available in standard sizes but are regularly supplied in sizes to suit application on request.

# Aluminium-framed disposable panel filters

## Performance data:

Part no.	Filter media	Filter class	Min. Eff.	Avg. eff.	Avg. arrest.
7-5001 (45mm depth)	BR4	G4	20	36	90
7-6001 (90mm depth)	BR4	G4	20	36	90

## 45mm:



BR4

## Specifications:

Part no.	Nominal size (mm)	Holding frame size mm W x H x D	Capacity l/sec @		BR4 pressure drop - Pa.		Final res. Pa.
			1.8 m/sec	2.5 m/sec	1.8 m/sec	2.5 m/sec	
7-5511	395 x 495 x 25	406 x 508 x 25	360	500	42	65	250
7-5531	495 x 495 x 25	508 x 508 x 25	450	625	42	65	250
7-5541	295 x 595 x 25	305 x 610 x 25	325	450	42	65	250
7-5551	595 x 595 x 25	610 x 610 x 25	650	900	42	65	250
7-5561	395 x 622 x 25	406 x 635 x 25	440	610	42	65	250
7-5571	495 x 622 x 25	508 x 635 x 25	560	780	42	65	250
7-5591	495 x 749 x 25	508 x 762 x 25	670	930	42	65	250
7-5041	290 x 595 x 45	305 x 610 x 50	325	450	25	45	250
7-5011	395 x 495 x 45	406 x 508 x 50	360	500	25	45	250
7-5061	395 x 622 x 45	406 x 635 x 50	440	610	25	45	250
7-5031	495 x 495 x 45	508 x 508 x 50	450	625	25	45	250
7-5065	495 x 595 x 45	508 x 610 x 50	540	750	25	45	250
7-5071	495 x 622 x 45	508 x 635 x 50	560	780	25	45	250
7-5051	595 x 595 x 45	610 x 610 x 50	650	900	25	45	250
7-5091	495 x 749 x 45	508 x 762 x 50	670	930	25	45	250
7-6041	290 x 595 x 90	305 x 610 x 90	325	450	22	40	250
7-6011	395 x 495 x 90	406 x 508 x 90	360	500	22	40	250
7-6061	395 x 622 x 90	406 x 635 x 90	440	610	22	40	250
7-6031	495 x 495 x 90	508 x 508 x 90	450	625	22	40	250
7-6065	495 x 595 x 90	508 x 610 x 90	540	750	22	40	250
7-6071	495 x 622 x 90	508 x 635 x 90	560	780	22	40	250
7-6051	595 x 595 x 90	610 x 610 x 90	650	900	22	40	250
7-6091	495 x 749 x 90	508 x 762 x 90	670	930	22	40	250

\* For Holding frame part numbers please refer to Holding frame data on page 32

# Plastic-framed disposable panel filters

- Complies with AS1668.2
- Food-grade plastic frame
- Light & robust
- Environmentally-friendly
- Ideal for high humidity applications
- Standard & non standard sizes
- Standard depth of 45 mm
- Available standard with G4 media



## Construction:

Filterfit plastic disposable filters are Type 1, Class A, dry disposable extended surface panel filters, which offer economical, intermediate efficiency and meet the requirements of AS1668.2, where the filter has an initial efficiency of not less than 20% to AS1324 No. 1 Test.

The filters are manufactured utilising a light weight food-grade plastic frame, which is impervious to moisture or humidity and can be easily recycled. The filter media is manufactured from a blend of synthetic fibres, which do not support combustion.

The filter media is pleated in a V form configuration to provide lower resistance and higher dust holding capacity to that of a flat panel filter, ensuring extended service life.

The filter media is bonded to a 12mm x 12mm wire mesh grid on the air leaving side of the filter, to provide media support, and is bonded into the plastic frame to prevent air bypass.

## Filter media types:

Filterfit plastic disposable panel filters are available standard with G4 rated disposable

media type BR4. Other media types available on request including BR13 Technostat media (F6) to aid in smoke removal.

## Applications:

Due to its low cost and extended service life, the filter is suited to a wide range of applications including general air conditioning and ventilation systems, process air systems, industrial applications and as pre filtration to higher efficiency filters.

Filters are generally installed into slides in ducts, however to ensure effectiveness, the filter should be installed utilising Filterfit panel filter mounting frames, which incorporate sealing gasket and spring clips to ensure a positive seal is formed against the filter face.

## Dimensions:

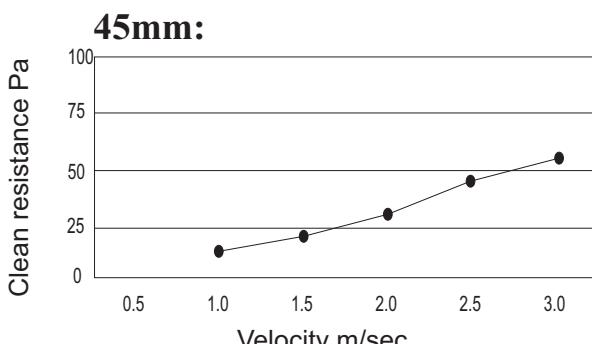
Filters are available in standard sizes but are regularly supplied in sizes to suit applications on request.



# Plastic-framed disposable panel filters

## Performance data:

Part no.	Filter media	Filter class	Min. Eff.	Avg. eff.	Avg. arrest.
7-5000 (45mm depth)	BR4	G4	20	36	90



## Specifications:

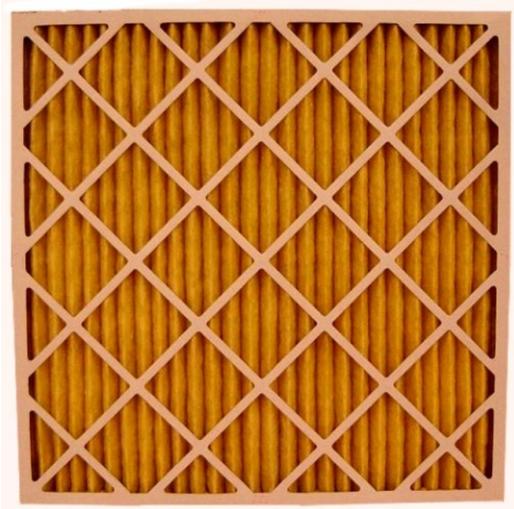
Part no.	Nominal size (mm)	Holding frame size (mm)	Capacity l/sec @		BR4 Pressure Drop Pa.		Final res. Pa.
		W x H x D	1.8 m/sec	2.5 m/sec	1.8 m/sec	2.5 m/sec	
7-5624	290 x 595 x 45	305 x 610 x 50	325	450	25	45	250
7-5618	395 x 495 x 45	406 x 508 x 50	360	500	25	45	250
7-5628	395 x 622 x 45	406 x 635 x 50	440	610	25	45	250
7-5622	495 x 495 x 45	508 x 508 x 50	450	625	25	45	250
7-5620	495 x 445 x 45	508 x 460 x 50	540	750	25	45	250
7-5629	495 x 595 x 45	508 x 610 x 50	560	780	25	45	250
7-5630	495 x 622 x 45	508 x 635 x 50	560	780	25	45	250
7-5626	595 x 595 x 45	610 x 610 x 50	650	900	25	45	250
7-5634	495 x 749 x 45	508 x 762 x 50	670	930	25	45	250

Non standard sizes available on request. Order using part number 7-5000 and specify size

\* For Holding frame part numbers please refer to Holding frame data on page 32

# Disposable cardboard-framed V-Form panel filters

- Premium performance and construction
- High loft media increases dust-holding capacity
- Contoured pleat design
- Wide selection range
- Media pack adhesive
- Media pack support retainer
- Frame-to-frame adhesive
- Welded wire pleat support grid
- Double wall beverage board frame
- High loft pleated media



Disposable panel filters are constructed with totally unitised, double wall, die-cut box, moisture resistant beverage board frame

The media is bonded inside the frame at all points of contact, providing a sturdy, reliable construction that does not move or deteriorate under difficult operating conditions.

The media pack support retainers, which are an integral part of the frame at both the air entering and leaving sides, increase filter rigidity. It helps maintain equal spacing between pleats for maximum dust holding capacity while minimizing resistance.

Disposable panel filters are ideal for use as prefilter in combination with high efficiency filters. It helps extend the life of the higher efficiency filter from premature dust loading and replacement.

## High loft media increases dust-holding capacity

The media is a special blend of non-woven cotton and synthetic fibers formed into a high loft mat for maximum media thickness to hold more dust.

## Contoured pleat design

The contoured shape of the pleats, which are formed by an expanded metal support grid permits air to exit freely through the bottom of the pleats, as well as along the entire depth. Dust collects uniformly over the entire media and does not build up in the exit apexes as it would in V-shaped pleats.

The unique design maximizes media usage and results in a more gradual rise in resistance and higher dust loading capacity. While the welded wire or expanded metal support grid increases the stability of the pleat pack, thus reducing media flutter during operation.

# Disposable cardboard-framed V-Form panel filters

## Specifications:

Part No.	Nominal size	Holding frame size	Capacity L/sec		Pressure drop Pa.		Final
			1.52 m/sec	2.5 m/sec	1.52 m/sec	2.5 m/sec	
7-5201	295 x 295 x 45	305 x 305 x 50	142	236	23	64	250
7-5241	295 x 595 x 45	305 x 610 x 50	283	472	23	64	250
7-5211	395 x 495 x 45	406 x 508 x 50	315	524	23	64	250
7-5261	395 x 622 x 45	406 x 635 x 50	394	656	23	64	250
7-5221	445 x 495 x 45	457 x 508 x 50	355	590	23	64	250
7-5231	495 x 495 x 45	508 x 508 x 50	394	656	23	64	250
7-5265	495 x 595 x 45	508 x 610 x 50	492	819	23	64	250
7-5271	495 x 622 x 45	508 x 635 x 50	492	819	23	64	250
7-5251	595 x 595 x 45	610 x 610 x 50	566	944	23	64	250
7-5281	445 x 595 x 45	457 x 610 x 50	442	736	23	64	250
7-5291	495 x 749 x 45	508 x 762 x 50	588	983	23	64	250
7-6241	295 x 595 x 90	305 x 610 x 90	283	472	19	53	250
7-6211	395 x 495 x 90	406 x 508 x 90	315	524	19	53	250
7-6261	395 x 622 x 90	406 x 635 x 90	394	656	19	53	250
7-6221	445 x 495 x 90	457 x 508 x 90	355	590	19	53	250
7-6231	495 x 495 x 90	508 x 508 x 90	394	656	19	53	250
7-6265	495 x 595 x 90	508 x 610 x 90	492	819	19	53	250
7-6271	495 x 622 x 90	508 x 635 x 90	492	819	19	53	250
7-6281	445 x 595 x 90	457 x 610 x 90	442	736	19	53	250
7-6251	595 x 595 x 90	610 x 610 x 90	566	944	19	53	250

Maximum operating temperature	93°C (200°F)
Media	Non-woven cotton and synthetic fibres
Support grid	Welded wire mesh or expanded metal support grid
Frame	Double wall, water resistant beverage board

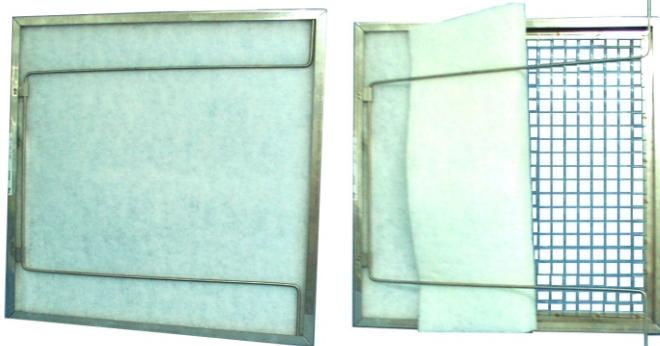
### Notes:

- 1) The actual face dimension of all sizes is 12-15mm under holding frame dimension.
- 2) Width and height dimensions are interchangeable. All filters may be installed with the pleats, either vertical or horizontal.
- 3) All performance data is based on the ASHRAE 52.1-1992 test method. Performance tolerances conform to Section 7.4 of ARL Standard 850-93.
- 4) Recommended final resistance: 250 Pa for all models.

\* For information on these items, please contact your local distributor

# Gate type RM panels

- Hinged frame allowing speedy access to media
- Media is easily replaced
- 20, 24 and 45 mm frame depth
- Washable or Disposable
- Classification G1- F5



## Description:

The gate type removable media (RM type panel) is designed so that the filter frame can be easily opened and the filter media easily removed and replaced.

Replacement media can be supplied in bulk rolls or to pre cut sizes as required. The filter reduces service costs as the filter frame is retained for reuse and minimum storage is required for replacement media

## Construction:

Filters are manufactured from 20 mm, 24mm or 45 mm deep aluminum frame. The filters incorporate galvanised wire mesh on the clean air side to provide media support and a galvanised hinged wire gate on the air on side for easy access and replacement of the filter media.

## Filter media types:

As the filter media is easily replaced filters can be supplied with any of a large range of filter media to suit various applications.

## Application:

Generally used in air conditioning and ventilation systems requiring low initial cost and low service/replacement cost filters.

Ideally suited to replace similar style washable filters, as in most cases it is more economical to replace the media than to wash the filter. *In some instances washing of filters on site is restricted due to local council water authorities acts in relation to run off entering storm water drains.*

## Dimensions:

Filters are available with a frame depth of either 20, 24 or 45 mm, special depths are available on request.

Filters can be manufactured to any dimension up to 1000 x 1200 mm, although, it is suggested sizes are kept below 900 mm x 800 mm for rigidity. Frame support braces are fitted to larger sizes.

# Gate type RM panels

## Maintenance:

The filter media is readily removed from the filter frame by unclipping the media retainer wire on the air entry side.

If the filter media is washable it can be cleaned by rinsing with cold water from a medium pressure hose, back through the air entry side of the media. Allow the filter media to fully dry before re-installing.

Washable filters can be washed up to 5 times before the media needs to be

replaced, however filter performance will progressively deteriorate with each wash.

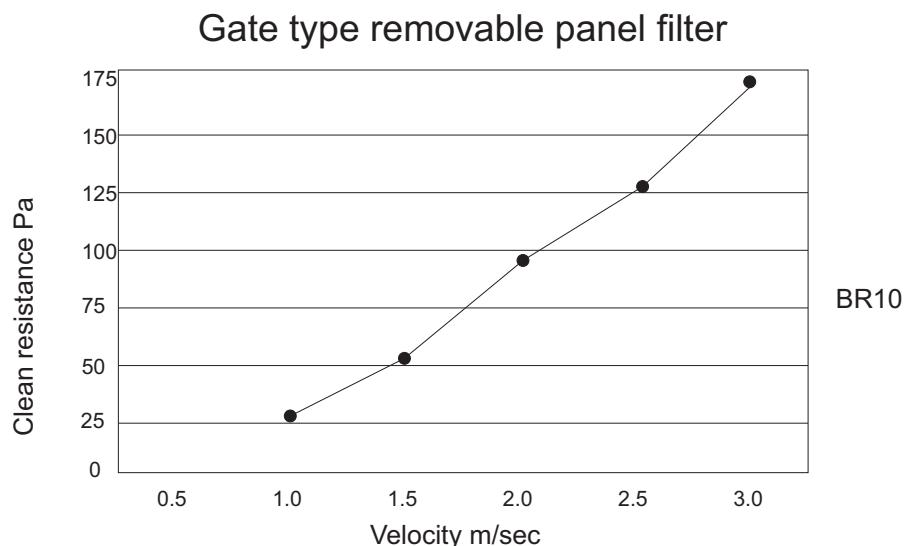
If the media is disposable, remove dirty media and place in a sealed bag to prevent any contaminant from spilling out.

Install new media ensuring that it is equivalent in performance to the media being replaced, making sure that the media is sealed around the filter frame.

## Performance data:

Panel part no.	Media type	Filter class	Replacement pad part no.	Face velocity m/sec	Initial res. Pa	Avg arrestance %
8-0000	BR4	G2	5-0018	1.8 - 2.5	40 - 80	95
8-0000	BR9	G3	5-0016	1.8 - 2.5	50 - 85	85
8-0000	BR10	G4	5-0010	1.8 - 2.5	80 - 130	74

\* Other media grades available on request



# Heavy duty removable media (RM) panel filters

- Permanently mounted frame, able to be assembled into banks
- Media is easily replaced
- 24 and 45 mm frame depth
- Large range of filter media available
- Ideal for spray booth exhaust applications



## Description:

The heavy duty removable media (RM) filter is removable media type panel filter, designed so that the filter frame can be permanently mounted and the filter media can be easily removed and replaced while leaving the frame in place.

Replacement media can be supplied in bulk rolls or to pre cut sizes as required. The filter reduces service costs as the filter frame is retained for reuse and minimum storage is required for replacement media.

## Construction:

Filters are manufactured from 24mm or 45 mm deep galvanised steel frame, incorporating galvanised 5mm wire weld mesh on the clean air side to provide media support and a galvanised steel wire retainer

ring on the air on side.

The media retainer ring clips into the mounting frame and provides a positive seal between the filter media and the mounting frame.

The wire retainer ring incorporates handles for easy removal and when fitted correctly, the handles do not protrude out past the edge of the frame, allowing the filters to fit into slide arrangements.

## Filter Media Types:

As the filter media is easily replaced, filters can be supplied with any of a large range of filter media to suit various applications. Filter media available includes fibreglass strippable media, ideal for various spray booth exhaust applications.

# Heavy duty removable media (RM) panel filters

## Application:

Generally used in industrial ventilation systems requiring low initial cost and low service/replacement cost filters.

The filters are ideal for spray booth exhaust applications or high dust-loading applications, where filter media is regularly replaced.

## Dimensions:

Filters are available with a frame depth of either 24 or 45 mm, special depths are available on request.

Filters can be manufactured to any dimension up to 1000 mm x 1200 mm, support braces may be needed on larger end sizes.

## Maintenance:

The filter media is readily removed from the filter frame without the need to remove the

complete filter panel, by unclipping the media retainer wire on the air entry side.

If the filter media is washable it can be cleaned by rinsing with cold water from a medium pressure hose, back through the air entry side of the media. Allow the filter media to fully dry before re-installing. Washable filters can be washed up to 15 times before the media needs to be replaced, however filter performance will progressively deteriorate with each wash.

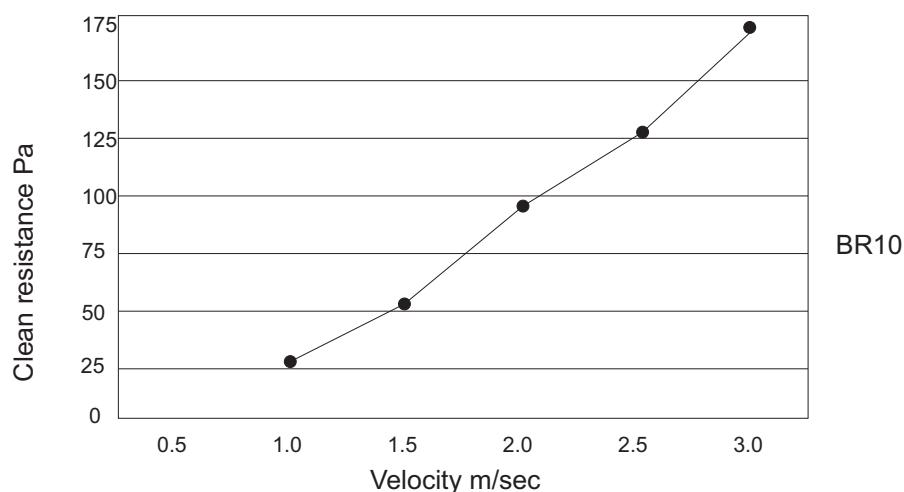
If the media is disposable, remove dirty media and place in a sealed bag to prevent any contaminant from spilling out. Install new media ensuring that it is equivalent in performance to the media being replaced making sure the media is sealed around the filter frame.

## Performance data:

Panel part no.	Media type	Filter class	Replacement pad part no.	Face velocity m/sec	Initial res. Pa	Avg arrestance %
8-0010	BR18	G2	5-0018	1.8 - 2.5	40 - 80	85
8-0010	BR16	G3	5-0016	1.8 - 2.5	50 - 85	85
8-0010	BR10	G4	5-0010	1.8 - 2.5	80 - 130	74

\* Other media grades available on request

## Heavy Duty RM Panel



# Replaceable disposable insert (D2P) panel filters



## Description:

Filterfit model D2P filters incorporate a disposable, pleated media insert fitted into a two-piece frame, which is easily dismantled for removal and replacement of the insert. This means that the disposable filter insert can be easily replaced on site, without the need of tools and that the replacement cost of the filters is reduced to a minimum, as the replacement inserts are less expensive than a complete disposable filter.

D2P panel filters can be installed in a slide arrangement (model D2PS), or can also be permanently mounted into a plenum without the need of separate mounting frames (model D2PM).

## Construction:

The filters frames are manufactured from light gauge aluminum. The filter media is manufactured from a blend of synthetic fibers, which do not support combustion and is bonded to a 25mm x 25mm wire mesh grid on the air leaving side of the filter to provide media support. The filter

media insert is pleated in a V form configuration to provide lower resistance and higher dust holding capacity to that of a flat panel filter, ensuring extended service life.

Model D2PS incorporate angle fasteners to hold the frames together and are used in applications where filters are slide mounted. Model D2PM incorporate turn clip fasteners to hold the frames together and are used in applications where the filter frame is permanently mounted into a filter plenum.

(There is no requirement for separate filter mounting frames.)

## Filter media types:

Filterfit's D2P disposable panel filters are available standard with G4 rated disposable media type BR4. Higher efficiency F5 media type BR5 is also available on request.

## Dimensions:

Filters are available in a standard depth of 45. 90 mm available on request. Filters can be manufactured at any dimension up

# Replaceable disposable insert (D2P) panel filters



## Maintenance:

Filters are disposable and should not be washed or re-used.

When replacing filters it is recommended that the fan be switched off so as no dust, which may dislodge from the dirty filter, is drawn through the system.

Care should be taken to ensure new replacement filters are of the same efficiency and performance of the existing original filter, as replacing with filters of lesser performance may be in breach of local building codes.

To replace the disposable filter insert, firstly remove inner frame by releasing spring clips (model D2PM) or by sliding inner frame towards one end to remove from holding lugs (model D2PS).

Remove dirty filter insert and fit new filter insert by placing upturned end of media under edge of inner frame (ensuring wire mesh is on the clean air side of the filter). Insert inner frame and media into outer frame and fasten with spring clips or by sliding inner frame under locking lugs.

## Performance data:

Panel part no.	Repl. insert part no.	Filter class	Media type	Face velocity m/sec	Initial res. Pa	Avg arrestance %
7-7001	7-7201	G4	BR4 (disposable)	1.8	25	85.2
7-7002	7-7202	G4	BR9 (disposable)	1.8	42	74
7-7004	7-7204	G4	BR10 (disposable)	1.8	50	90
7-7005	7-7205	G4	BR12 (disposable)	1.8	50	*
7-7007	7-7207	G3	BR16 (washable)	1.8	50	85

Arrestance relates to AS1324 No. 4 Test

# Bulk media rolls & auto rolls



## Specifications:

Part no.	Media	Specifications	Dimension	Colour	Efficiency	Type
4-0004	BR4	250 g/m <sup>2</sup> , 5mm loft, needed PE	1.2m x 20m	white	G4	disposable
4-0006	BR6	150 g/m <sup>2</sup> , 10mm loft, thermal bonded PE	2.1m x 40m	grey	G2	washable
4-0009	BR9	350 g/m <sup>2</sup> , 25mm loft, Thermal bonded PE	2.1m x 20m	white	G4	disposable
4-0010	BR10	400 g/m <sup>2</sup> , 25mm loft, Thermal bonded PE	2.1m x 20m	white	G4/F5 *	disposable
4-0012	BR12	400 g/m <sup>2</sup> , 25mm loft, 30% wool, 70% Thermal bonded PE	2.1m x 20m	cream	G4/F5 *	disposable
4-0016	BR16	300 g/m <sup>2</sup> , 25mm loft, Thermal bonded, stiffened PE	2.1m x 20m	pink	G3	washable
4-0015	EU5/F5	Spray booth inlet media, scrim-supported, pacified	2.1m x 20m	white	F5	disposable

\* Efficiencies may differ depending on filter configuration

Due to variations in raw materials, i.e., fibre denier, specifications may vary without notice



Filterfit auto roll BR11 polyester media is scrim-supported for improved mechanical strength.

It is available in both dry and oiled configurations.

Centre core can be supplied to match spool sizes on all available brands of auto roll machine.

*\* When ordering, please specify core type and media configuration.*

## Specifications:

Part no.	Media	Roll width	Roll length
4-0019	BR11 (scrim-supported media)	nom 3ft (820mm)	20m
4-0020	BR11 (scrim-supported media)	nom 4ft (1120mm)	20m
4-0021	BR11 (scrim-supported media)	nom 5ft (1420mm)	20m
4-0022	BR11 (scrim-supported media)	nom 6ft (1720mm)	20m

# FFP663 & 633 self-supported 350mm deep bed air filters

## Description:

Filterfit's FFP deep bed air filter provides economical medium efficiency filtration. FFP deep bed filters are easily constructed in banks of multiple filters to suit any given air capacity.

## Construction:

FFP deep bed filters consist a replaceable filter bag, galvanised steel permanent mounting frame and a removable galvanised inner wire media support basket. Permanent mounting frames are nominally 50 mm in depth. Filter bags are firmly held in place by the removable inner wire basket, which clips into the mounting frame and provides a positive seal between the filter media and the mounting frame.

Standard FFP deep bed filters are constructed assuming service access is on the dirty air side of the filter. Reverse access filters are also available on request should filters need to be accessed from the clean-air side due to space restrictions. Filter mounting frames and inner wire support frames can be supplied with a powder-coated finish or can be manufactured from stainless steel if required.

## Filter Media Types:

FFP deep bed filters can be supplied with a range of filter media to suit each application. Filter media available include activated carbon impregnated media type BR23, which is effective at removing certain odours or fumes.

## Applications:

Due to the comparatively low cost and extended service life of the FFP deep bed filter, the filter is suited to a wide range of applications including general air conditioning and ventilation systems, process air systems, industrial applications and as pre filtration to odour removal filters and high



FFP663



FFP633

efficiency filters.

Where space is sufficient to install deeper filters, models FT2 and FT3 600mm deep filters should be considered as the superior dust holding capacity will reduce service frequency.

## Dimensions:

Filters are available in standard sizes;

663: 610 x 610 x 350 mm

633: 610 x 305 x 350 mm

Custom sizes are available on request.

## Installation:

Filterfit's deep bed filters are easily installed by fixing permanent mounting frames to filter plenums and can be made up into banks by riveting or bolting mounting frames together. It is recommended that an approved sealant be applied between mounting frames and plenum walls to prevent air by-pass.

Where bank sizes exceed 2.0 metres stiffeners should be installed to prevent distortion of filter frames. Standard filters are installed where service access is on the dirty air side of the filter. Reverse access frames are available and are ideally suited for applications where the filters are used as a prefilter, so that only one access door is required to service both filter arrangements.

# FFP663 & 633 self-supported 350mm deep bed air filters

## Maintenance and service:

To achieve optimum filter life, it is recommended that a manometer be installed across the filter bank. When replacing filters, it is recommended that the fan is switched off so as no dust, which may dislodge from the dirty filter, is drawn through the system.

Care should be taken to ensure new filter bags are of the same efficiency and performance as the original filter. Replacing with filters of lesser performance may be in breach of local building codes.

When airflow is restricted due to build-up of dust, removal and replacement of the

dirty filter bag is easily carried out. The inner wire is removed by pushing the handles towards each other and withdrawing the inner from the clips. The contaminated filter bag is then easily removed and should be placed immediately in a sealed bag to prevent and contaminate from spilling out.

Insert the inner wire into the front of the replacement bag. Insert both the filter bag and inner frame into the mounting frame ensuring a seal is formed between the media and the mounting frame and that the handles are firmly fastened into the mounting frame.

## Performance data:

### Performance data: replacement media

Repl bag part no.	Size (mm)	Filter class	Media type	Face velocity m/sec	Air capacity L/sec	Initial res. Pa	Min eff.	Avg. eff.	Avg arrestance %
1-0002	610 x 610 x 350	G4	BR9 (disp)	2.5	944	40	22	24	95.3
1-0003	610 x 610 x 350	F5	BR10 (disp)	2.5	944	40	21	-	90
1-0004	610 x 610 x 350	F5	BR12 (disp)	2.5	944	44	28	50	91.5
1-0007	610 x 610 x 350	G3	BR16 (wash)	2.5	944	31	-	-	85.5
1-0102	610 x 305 x 350	G4	BR9 (disp)	2.5	472	40	22	24	95.3
1-0103	610 x 305 x 350	F5	BR10 (disp)	2.5	472	40	21	-	90
1-0104	610 x 305 x 350	F5	BR12 (disp)	2.5	472	44	28	50	91.5
1-0107	610 x 305 x 350	G3	BR16 (wash)	2.5	472	31	-	-	85.5

Efficiency relates to AS1324 No. 1 Test

Arrestance relates to AS1324 No. 4 Test

## FFP filter cages only:

Cage part no.	Description	Size (mm)
3-0055	FFP663 std. flow outer frame	610 x 610 x 50
3-0075	FFP663 std. flow inner frame	595 x 595 x 350
3-0065	FFP663 rev. flow outer frame	610 x 610 x 350
3-0085	FFP663 rev. flow inner frame	595 x 595 x 8
3-0060	FFP633 2 std. flow outer frame	610 x 305 x 50
3-0080	FFP633 2 std. flow inner frame	595 x 297 x 350
3-0070	FFP633 2 rev. flow outer frame	610 x 305 x 350
3-0090	FFP633 2 rev. flow inner frame	595 x 297 x 8

# FT2 350mm deep self-supported air filter

## Description:

Filterfit's FT2 deep bed air filter, is a 2 pocket self supportive bag filter which provides economical medium efficiency filtration. FT2 deep bed filters are easily constructed in banks of multiple filters to suit any given air capacity.

## Construction:

FT2 deep bed filters consist of a self-supportive, replaceable filter bag, galvanised steel permanent mounting frame and a removable galvanised inner wire. Permanent mounting frames are nominally 50 mm in depth. Filter bags are firmly held in place by the removable inner wire, which clips into the mounting frame and provides a positive seal between the filter media and the mounting frame.

Standard FT2 deep Bed filters are constructed whereas service access is on the dirty air side of the filter. Reverse access filters are also available on request. Filter mounting frames and inner wire support frames can be supplied with a powder-coated finish or can be manufactured from stainless steel if required.

## Filter Media Types:

FT2 deep bed filters can be supplied with a range of filter media to suit each application. Filter media available include medium efficiency washable type BR16 and activated carbon impregnated media type BR23, which is effective at removing certain odours or fumes

## Applications:

Due to the comparatively low cost and extended service life of the FT2 deep bed filter, the filter is suited to a wide range of applications including general air conditioning and ventilation systems, process air systems, industrial applications and as pre filtration to odour removal filters and high efficiency filters.



Where space is sufficient to install deeper filters, models FT2 and FT3 600mm deep filters should be considered as the superior dust holding capacity will reduce service frequency.

## Dimensions:

Filters are available in standard sizes;  
FT2663 610 x 610 x 350 mm

FT2633 610 x 305 x 350 mm  
Custom sizes are available on request.

## Installation:

Filterfit deep bed filters are easily installed by fixing permanent mounting frames to filter plenums and can be made up into banks by riveting or bolting mounting frames together. It is recommended that an approved sealant be applied between mounting frames and between mounting frames and plenum walls to prevent air by-pass. Where bank sizes exceed 2.0 metres stiffeners should be installed to prevent distortion of filter frames.

Standard filters are installed where service access is on the dirty air side of the filter. Reverse access frames are available and are ideally suited for applications where the filters are used as a pre filter, so that only one access door is required to service both filter

# FT2 350mm deep self-supported air filter

## Maintenance and service:

To achieve optimum filter life, it is recommended that a manometer be installed across the filter bank. When replacing filters it is recommended that the fan is switched off so as no dust, which may dislodge from the dirty filter, is drawn through the system.

Care should be taken to ensure new filter bags are of the same efficiency and performance of the existing original filter, as replacing with filters of lesser performance may be in breach of local building codes.

When airflow is restricted due to build up of dust, removal and replacement of the dirty filter bag is easily carried out. The inner wire is removed by pushing the handles toward each other and withdrawing the inner from the clips. The contaminated filter bag is then easily removed and should be placed immediately in a sealed bag to prevent any contaminant from spilling out.

Insert the inner wire into the front of the replacement bag. Insert both the filter bag and inner frame into the mounting frame ensuring a seal is formed between the media and the mounting frame and that the handles are firmly fastened into the mounting frame.

## Performance data:

Part no. (bag only)	Dimensions (mm) W x H x D	Filter Class	Media Type	Face velocity m/sec	Air capacity l/sec	Initial resistance Pa	Min. eff.	Avg. eff.	Avg arrestance %
1-7003	610 x 610 x 350	F5	BR10 disp.	2.5	944	40	21	40	90
1-7103	610 x 305 x 350	F5	BR10 disp.	2.5	471	40	21	40	90
1-7007	610 x 610 x 350	G3	BR16 wash.	2.5	944	31	*	*	85.5
1-7107	610 x 305 x 350	G3	BR16 wash.	2.5	471	31	*	*	85.5
1-6003	610 x 610 x 600	F5	BR10 disp.	2.5	944	*	*	*	*
1-6103	610 x 305 x 600	F5	BR10 disp.	2.5	471	*	*	*	*
1-6007	610 x 610 x 600	G3	BR16 wash.	2.5	944	*	*	*	*
1-6107	610 x 305 x 600	G3	BR16 wash.	2.5	471	*	*	*	*

## Specifications:

Part no. bag & cage complete assy.	Description	Size mm W x H x D
2-2007	Full cage assembly complete with BR16 media bag	610 x 610 x 350
2-2107	Half cage assembly complete with BR16 media bag	610 x 305 x 350
2-2003	Full cage assembly complete with BR10 media bag	610 x 610 x 350
2-2103	Half cage assembly complete with BR10 media bag	610 x 305 x 350
2-0007	Full cage assembly complete with BR16 media bag	610 x 610 x 600
2-1007	Half cage assembly complete with BR16 media bag	610 x 305 x 600
2-0003	Full cage assembly complete with BR10 media bag	610 x 610 x 600
2-1003	Half cage assembly complete with BR10 media bag	610 x 305 x 600

Other media grades available on request.

Filter cages available separately on request.

# FUV 636, 634 & 633 replacement to suit Univee style filters



## Description:

FUV filters are replacement filters designed to fit into existing Univee style filter frames.

The FUV replacements are manufactured with a reusable, galvanised steel header frame incorporating a galvanised wire media retainer ring, for retaining the filter bag in the header.

As the header frame is reusable, once

the FUV has been initially purchased, all that is required for future replacements is a replacement bag only (type FUV). The replacement filter bag is easily installed into the header frame, utilising the wire media retainer ring.

Replacement costs are reduced without the need to purchase replacement bags with header frames.

Header frames can be clipped together to form a 595 x 595 module.

## Performance data:

Part no. with	Replacement bag part no.	Size (mm)	Filter media	Filter class	Average arrestanc
		W x H x D			
2-5103	1-9003	595 x 295 x 350	BR10	G4	22
2-5104	1-9004	595 x 295 x 350	BR12	F5	28
2-5003	1-8003	595 x 295 x 550	BR10	G4	22
2-5004	1-8004	595 x 295 x 550	BR12	F5	28

# FT3 fully-supported deep bed air filter

## Description:

Filterfit's FT3 deep bed air filter, is a fully-supported, 3 pocket filter which provides economical, medium to high efficiency filtration, with a low operating pressure drop. The unique pocket design of the FT3 together with the internal full depth bag support frame, ensure that the maximum filter area is utilised, providing excellent dust holding capacity and extended service life.

FT3 deep bed filters are easily constructed in banks of multiple filters to suit any given air capacity.

## Construction:

FT3 deep bed filters consist of a replaceable filter bag, galvanised steel permanent mounting frame and a removable galvanised inner wire bag support frame.

Permanent mounting frames are nominally 50 mm in depth. Filter bags are firmly held in place by the removable inner support frame, which clips into the permanent mounting frame and provides a positive seal between the filter media and the mounting frame. Standard FT3 deep bed filters are constructed whereas service access is on the dirty air side of the filter. Reverse access filters are also available on request. Filter mounting frames and inner wire support frames can be supplied with a powder-coated finish or can be manufactured from stainless steel if required.

## Filter Media Types:

FT3 deep bed filters can be supplied with a range of filter media to suit each application. Filter media available include medium efficiency washable type BR16, and high efficiency 2 stage BR9/BR13 which is effective at removing cigarette smoke.

## Application:

Due to the range of filter media available



and the extended service life of the FT3 deep bed filter, the filter is ideal for a complete range of applications including general air conditioning and ventilation systems, process air systems and industrial applications.

## Dimensions:

Filters are available in standard sizes of:

610 x 610 x 600mm

610 x 305 x 600mm

## Installation:

FT3 deep bed filters are easily installed by fixing permanent mounting frames to filter plenums and can be made up into banks by riveting or bolting mounting frames together. It is recommended that an approved sealant be applied between mounting frames and between mounting frames and plenum walls to prevent air by-pass. Where bank sizes exceed 2.0 metres it is recommended that stiffeners are installed to prevent distortion of filter frames.

# FT3 fully-supported deep bed air filter

## Maintenance and service:

Due to the high dust holding capacity of the FT3 deep bed filter, it is recommended that a manometer be installed across the filter bank, so that optimum filter life is achieved. When replacing filters it is recommended that the fan is switched off so as no dust, which may dislodge from the dirty filter, is drawn through the system.

Care should be taken to ensure new filter bags are of the same efficiency and performance of the existing original filter, as replacing with filters of lesser performance may be in breach of local building codes.

When airflow is restricted due to build up of dust, removal and replacement of the dirty filter bag is easily carried out. The inner wire support basket is removed by pushing the handles toward each other and withdrawing the inner from the clips. The contaminated filter bag is then easily removed and should be placed immediately in a sealed bag to prevent any contaminant from spilling out.

Place the replacement filter bag over the inner frame support and insert both the filter bag and inner frame into the mounting frame ensuring a seal is formed between the media and the mounting frame and that the handles are firmly fastened into the mounting frame.

## Performance data:

### Fractional efficiency test based on AIRAH researched method

The following result was obtained by the use of a calibrated laser particle counter and ambient air dust utilising BR10 filter media.

Test filter size: 553 x 553mm, test flow rate: 551 l/sec

Particle size range, microns				Inferred AS1234 no. 1 dust efficiency	
0.3 - 0.5	0.5 - 1.0	1.0 - 5.0	5.0 +		
19.70%		63.30%		21%	
Avg. upstream count, particles per litre					
431,720	29,219	7,282	204		

Summary: test results indicate that the AS1234.1 rating would be at least F5

Part no. (bag only)	Dimensions (mm) W x H x D	Filter class	Media type	Face velocity m/sec	Air capacity l/sec	Initial resistance Pa.	Min. eff.	Avg. eff.	Avg arrestance %
1-3007	595 x 595 x 600	G3	BR16 wash.	2.5	944	30	*	*	85.5
1-3017	595 x 297 x 600	G3	BR16 wash.	2.5	471	30	*	*	85.5
1-3003	595 x 595 x 600	F5	BR10 disp.	2.5	944	27	22	40	90
1-3013	595 x 297 x 600	F5	BR10 disp.	2.5	471	27	22	40	90
1-3004	595 x 595 x 600	F5	BR12 disp.	2.5	944	50	28	50	91.5
1-3014	595 x 297 x 600	F5	BR12 disp.	2.5	471	50	28	50	91.5
1-3012	595 x 595 x 600	F6	BR10/13 disp.	2.5	944	70	60	60	94.6
1-3112	595 x 297 x 600	F6	BR10/13 disp.	2.5	471	70	60	60	94.6

Part no. bag & cage complete assy.	Description	Size (mm)
		W x H x D
2-3007	Full cage assembly complete with BR16 media bag	610 x 610 x 600
2-3107	Half cage assembly complete with BR16 media bag	610 x 305 x 600
2-3003	Full cage assembly complete with BR10 media bag	610 x 610 x 600
2-3103	Half cage assembly complete with BR10 media bag	610 x 305 x 600
2-3004	Full cage assembly complete with BR12 media bag	610 x 610 x 600
2-3104	Half cage assembly complete with BR12 media bag	610 x 305 x 600

# FTV & FDV semi-supported deep bed air filter



FTV666



FTV636

## Description:

Filterfit's FTV & FDV semi-supported deep bed air filters provide economical, medium to high efficiency filtration with a low operating pressure drop. A self-supporting wire is sewn to the front of the bag keeping the bag open to maintain configuration. This allows for easy retrofit to any existing holding frame containing other styles of air filter.

## Construction:

FTV & FDV filters consist of a synthetic filter bag with wire support built-in and a separate permanent outer holding frame.

Permanent mounting frames are nominally 50mm in depth. Filter bags are held in place by way of a compression fit with the filter media being sandwiched between the support wire and the holding frame.

## Filter media types:

FTV & FDV filters can be supplied with a range of filter media to suit each application. Filter media available include: BR16 (washable G3), BR10 (disposable F5) and BR9/13 (disposable F6) which is effective in removing cigarette smoke.

## Application:

Due to the range of filter media available and the extended service life of the FTV & FDV deep bed filters, the filter is suitable as a low-cost alternative for a large range of applications including general air conditioning and ventilation systems, process air systems and industrial applications.

## Dimensions:

Filters are available in standard sizes of:

610 x 610 x 600mm

610 x 305 x 600mm

610 x 610 x 400mm (FDV only)

610 x 305 x 400mm (FDV only)

Size quoted are holding frame sizes.

## Installation:

FTV & FDV deep bed filters are easily installed by fixing permanent mounting frames to filter plenums and can be made up into banks by riveting or bolting mounting frames together. It is recommended that an approved sealant be applied between mounting frames and between mounting frames and plenum walls to prevent air bypass. Where bank sizes exceed 2.0 metres it is recommended that stiffeners are installed to prevent distortion of filter frames.

# FTV & FDV semi-supported deep bed air filter

## Maintenance and service:

Due to the high dust holding capacity of the FT3 deep bed filter, it is recommended that a manometer be installed across the filter bank, so that optimum filter life is achieved. When replacing filters it is recommended that the fan is switched off so as no dust, which may dislodge from the dirty filter, is drawn through the system.

Care should be taken to ensure new filter bags are of the same efficiency and performance of the existing original filter, as replacing with filters of lesser performance may be in breach of local building codes.

When airflow is restricted due to build up of dust, removal and replacement of the dirty filter bag is easily carried out by simply holding the front of the bag by the wire support and withdrawing. The contaminated filter bag should be placed immediately in a sealed bag to prevent any contaminant from spilling out.

Place the replacement filter bag over the inner frame support and insert both the filter bag and inner frame into the mounting frame ensuring a seal is formed between the media and the mounting frame and that the handles are firmly fastened into the mounting frame.

## Performance data:

### Fractional efficiency test based on AIRAH researched method

The following result was obtained by the use of a calibrated laser particle counter and ambient air dust utilising BR10 filter media.

Test filter size: 553 x 553mm, test flow rate: 551 l/sec

Particle size range, microns				Inferred AS1234 no. 1 dust effeciency		
0.3 - 0.5	0.5 - 1.0	1.0 - 5.0	5.0 +			
19.70%		63.30%		21%		
<b>Avg. upstream count, particles per litre</b>						
431,720	29,219	7,282	204			

Summary: test results indicate that the AS1234.1 rating would be at least F5

## FTV: Three pocket full, Two pocket half bags

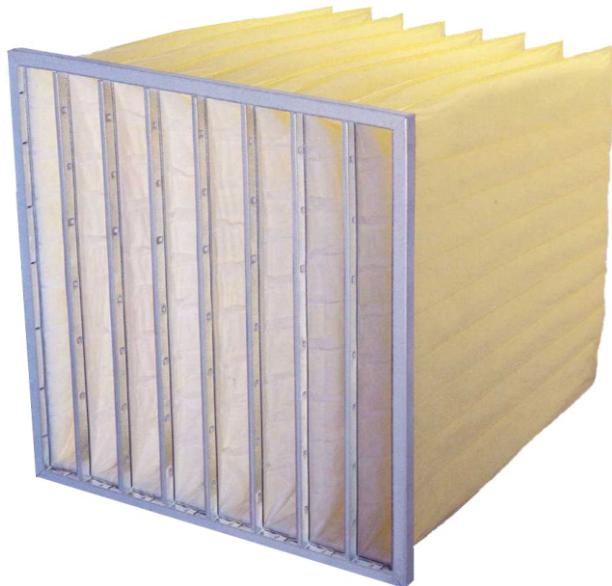
Part no.	Filter class	Media type	Dimensions	No. of pockets	Face velocity m/sec	Air capacity l/sec	Initial resistance Pa	Min. eff.	Average eff.	Average arrestance %
			mm (W x H x D)							
1-9204	F5	BR10 disp.	595 x 595 x 600	3	2.5	944	27	21	40	90
1-9227	F5	BR10 disp.	595 x 297 x 600	2	2.5	471	27	21	40	90
1-9202	F5	BR12 disp.	595 x 595 x 600	3	2.5	944	50	28	50	91.5
1-9225	F5	BR12 disp.	595 x 297x 600	2	2.5	471	50	28	50	91.5
1-9203	G3	BR16 wash.	595 x 595 x 600	3	2.5	944	30	*	*	85.5
1-9226	G3	BR16 wash.	595 x 297x 600	2	2.5	471	30	*	*	85.5
1-9228	F6	BR10/13 disp.	597x 597x 600	3	2.5	944	70	60	60	94.6
1-9229	F6	BR10/13 disp.	597x 297x 600	2	2.5	471	70	60	60	94.6

## FDV: Two pocket full, Single pocket half bags

Part no.	Filter class	Media type	Dimensions	No. of pockets	Face velocity m/sec	Air capacity l/sec	Initial resistance Pa	Min. eff.	Average eff.	Average arrestance %
			mm (W x H x D)							
1-9104	F5	BR10 disp.	595 x 595 x 400	2	2.5	944	35	21	40	90
1-9127	F5	BR10 disp.	595 x 297 x 400	1	2.5	471	35	21	40	90
1-9103	G3	BR16 wash.	595 x 595 x 400	2	2.5	944	38	*	*	85.5
1-9126	G3	BR16 wash.	595 x 297 x 400	1	2.5	471	38	*	*	85.5
1-9150	F5	BR10 disp.	595 x 595 x 600	2	2.5	944	35	21	24.9	90
1-9163	F5	BR10 disp.	595 x 297x 600	1	2.5	471	35	21	24.9	90
1-9149	G3	BR16 wash.	595 x 595 x 600	2	2.5	944	38	*	*	85.5
1-9162	G3	BR16 wash.	595 x 297x 600	1	2.5	471	38	*	*	85.5

# FMP multi-pocket high-efficiency bag filters

- Self supportive synthetic pocket design
- Filter classes F5 - F8 for applications requiring cleaner air
- Mechanically strong with a high abrasional resistance



## Description:

Filterfit's self supporting multipocket filters are made from high quality synthetic media pockets attached to an interlocked support frame. The media comprises of a matrix of primary and secondary synthetic fibres with a fine layer of high strength spun bond scrim on the air leaving side, to increase filter stability and prevent particle migration. This dual media design ensures low initial pressure drop, a high dust holding capacity and a long filter service life.

## Application:

The multi-pocket filters are ideal for pre filters or final filter, for particulate removal in humid, high air flow, and heavy dust loading conditions. Applications include pharmaceutical, automotive and food processing industries, commercial buildings, and various industrial applications and ventilation systems.

## Construction:

Filters are manufactured with a 22 mm galvanised header frame. The individual pockets incorporate sealed span stitching to ensure complete inflation to eliminate crowding or leakage.

A thermoplastic sealant holds stitches in place and seals the stitch holes.

## Efficiency ranges:

The filters are available in four ranges of efficiencies based on EN779 1993 standard (ASHRAE 52.1-1992 test method).

F5 50 - 55%, F6 60 - 65%, F7 80 - 85%,  
F8 90 - 95%.

## Dimensions:

Filters are available in standard sizes of 595 x 595 x 600 mm and 595 x 290 x 600 mm to suit standard mounting frames size 610 x 610 and 610 x 305 respectively.

## Installation:

Filterfit's deep bed filters are easily installed by fixing permanent mounting frames to filter plenums and can be made up into banks by riveting or bolting mounting frames together. It is recommended that an approved sealant be applied between mounting frames and between mounting frames and plenum walls to prevent air by-pass.

Where bank sizes exceed 2.0 metres it is recommended that stiffeners are installed to prevent distortion of filter frames.

## Pre Filters:

To extend the life of the multi pocket filters, panel pre filters can be installed in front of the multi pocket filter in the same mounting frame. This eliminates the need for a separate plenum of pre filters to be installed.

# FMP multi-pocket high-efficiency bag filters

## Maintenance and service:

Filters are disposable and can not be washed or re used. Due to the high dust holding capacity of the multi pocket filters, it is recommended that a manometer be installed across the filter bank, so that optimum filter life is achieved. When replacing filters it is recommended that the fan is switched off so as no dust, which may dislodge from the dirty filter, is drawn through the system.

Care should be taken to ensure new filter bags are of the same efficiency and performance of the existing original filter, as replacing with filters of lesser performance

may be in breach of local building codes. When airflow is restricted due to build up of dust, release fasteners holding the filter header frame into the mounting frame and remove the dirty filter bag, placing it in a sealed bag to prevent any contaminant from spilling out.

Ensure that the sealing gasket on the mounting frame is in good condition so as to prevent air bypass once a filter is in place. Install replacement filter into mounting frame and fasten into place with existing clip arrangement.

## Performance data:

Part no.	Nominal size	Holding frame size	Filter rating	Average efficiency	No. of Pockets	Capacity L/sec		Pressure Drop - Pa.		Final
						1.8 m/sec	2.5 m/sec	1.8 m/sec	2.5 m/sec	
1-3210	592 x 592 x 560	610 x 610 x 50	F5	50-55%	6	630	944	45	55	450
1-3211	592 x 290 x 560	610 x 305 x 50	F5	50-55%	3	310	470	45	55	450
1-3241	592 x 592 x 560	610 x 610 x 50	F6	60-65%	6	630	944	60	75	450
1-3242	592 x 290 x 560	610 x 305 x 50	F6	60-65%	3	310	470	60	75	450
1-3244	592 x 592 x 560	610 x 610 x 50	F6	60-65%	8	630	944	50	65	450
1-3245	592 x 290 x 560	610 x 305 x 50	F6	60-65%	4	310	470	50	65	450
1-3247	592 x 592 x 560	610 x 610 x 50	F7	80-85%	6	630	944	80	95	450
1-3248	592 x 290 x 560	610 x 305 x 50	F7	80-85%	3	310	470	80	95	450
1-3250	592 x 592 x 560	610 x 610 x 50	F7	80-85%	8	630	944	65	80	450
1-3251	592 x 290 x 560	610 x 305 x 50	F7	80-85%	4	310	470	65	80	450
1-3253	592 x 592 x 560	610 x 610 x 50	F8	90-95%	8	630	944	90	135	450
1-3254	592 x 290 x 560	610 x 305 x 50	F8	90-95%	4	310	470	90	135	450

All performance data based on En779 1993 standard (ASHRAE 1-1992 test method)  
Maximum operating temperature is 66 celcius

# Holding frames & Combo filter frames

## Description:

Filterfit holding frames are designed so that panel filters can be installed into banks for front withdrawal as opposed to a slide-in application.

## Construction:

Holding frames and combo frames are manufactured as standard from galvanized steel with an option for stainless steel. When supplied for use with panel filters, a foam seal is fitted to prevent air bypass.

All frames are supplied standard with spring (G.P.) clips to provide a positive seal.



Holding frame

## Dimensions:

Holding frames are supplied in 50mm and 100mm depths to suit 45mm and 90mm panel filters. All industry-standard dimension are available as well as any non-standard dimensions on request.

## Hardware:

Holding clips, both spring (G.P.) and D type swivel clips are available and can be supplied as separate items.

## Combo frames:

Filterfit combo holding frames are designed so that a combination of filters, either bags or panel, can be housed in the same holding frame. Combo frames are ideal for applications with limited space where both primary and secondary filters are required.



Combo frame (3-4210 shown)

## Dimensions:

Combo frames are available in standard sizes of:  
610 x 610 x 65mm  
610 x 305 x 65mm  
610 x 610 x 110mm  
610 x 305 x 110mm

Non-standard sizes are available on request.

# Holding frames & Combo filter frames

## Holding frame dimensions:

Part no.	Description	Dimensions	To suit panel size mm
		(W x H x D) mm	
8-1025	Galvanised filter holding frame	406 x 508 x 50	394 x 495 x 45
8-1027	Galvanised filter holding frame	406 x 635 x 50	394 x 622 x 45
8-1029	Galvanised filter holding frame	460 x 508 x 50	445 x 495 x 45
8-1031	Galvanised filter holding frame	460 x 610 x 50	445 x 595 x 45
8-1033	Galvanised filter holding frame	460 x 636 x 50	445 x 622 x 45
8-1035	Galvanised filter holding frame	508 x 508 x 50	495 x 495 x 45
8-1037	Galvanised filter holding frame	508 x 610 x 50	495 x 595 x 45
8-1041	Galvanised filter holding frame	610 x 610 x 50	595 x 595 x 45
8-1043	Galvanised filter holding frame	508 x 760 x 50	495 x 749 x 45
8-1045	Galvanised filter holding frame	508 x 635 x 50	495 x 622 x 45
8-1051	Galvanised filter holding frame	610 x 305 x 50	595 x 297x 45
8-2025	Galvanised filter holding frame	406 x 508 x 100	394 x 495 x 90
8-2027	Galvanised filter holding frame	406 x 635 x 100	394 x 622 x 90
8-2029	Galvanised filter holding frame	460 x 508 x 100	445 x 495 x 90
8-2031	Galvanised filter holding frame	460 x 610 x 100	445 x 595 x 90
8-2033	Galvanised filter holding frame	460 x 636 x 100	445 x 622 x 90
8-2035	Galvanised filter holding frame	508 x 508 x 100	495 x 495 x 90
8-2037	Galvanised filter holding frame	508 x 610 x 100	495 x 595 x 90
8-2041	Galvanised filter holding frame	610 x 610 x 100	595 x 595 x 90
8-2043	Galvanised filter holding frame	508 x 760 x 100	495 x 749 x 90
8-2045	Galvanised filter holding frame	508 x 635 x 100	495 x 622 x 90
8-2051	Galvanised filter holding frame	610 x 305 x 100	595 x 297x 90

## Combo frame dimensions:

Part no.	Nominal dimensions (mm)	Description	Match with combination of either:	
			45mm panel filter	FT3 bag filter (see page 25)
3-4210	610 x 610 x 65	Combo outer frame	45mm panel filter	FT3 bag filter (see page 25)
3-4211	610 x 305 x 65	Combo outer frame	45mm panel filter	FT3 bag filter (see page 25)
3-4212	610 x 610 x 110	Combo outer frame	90mm panel filter	FT3 bag filter (see page 25)
3-4213	610 x 305 x 110	Combo outer frame	90mm panel filter	FT3 bag filter (see page 25)
3-4220	610 x 610 x 65	Combo outer frame	45mm panel filter	FMD multi-pocket bag (see page 29)
3-4221	610 x 305 x 65	Combo outer frame	45mm panel filter	FMD multi-pocket bag (see page 29)
3-4230	610 x 610 x 110	Combo outer frame	90mm panel filter	FMD multi-pocket bag (see page 29)
3-4231	610 x 305 x 110	Combo outer frame	90mm panel filter	FMD multi-pocket bag (see page 29)

## D type swivel clips:

Part no.	Description
11-1000	D type swivel holding clip 25mm
11-1002	D type swivel holding clip 50mm
11-1004	D type swivel holding clip 75mm
11-1006	D type swivel holding clip 100mm
11-1008	D type swivel holding clip 125mm

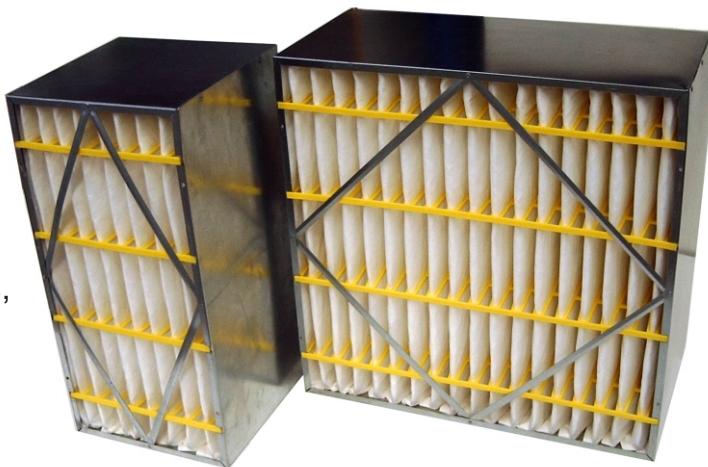


D type swivel clips

# Rigifil

## Extended surface rigid air filter with synthetic media

- Layered synthetic media with plastic pleat spacers on both sides
- Heavy-duty expanded metal media support grid
- Ideal for VAV system
- Available in efficiency 90-95%, 80-85%, 60-65% and 40-45%



### Excellent performance

Rigifil is a rigid and durable extended surface filter that is ideal for Variable Air Volume (VAV) systems. It provides a high level of filtration in those applications where cleaner air is required.

With metal cell sides and a layered media pack, the Rigifil offers superior dust holding, moisture resistance and overall performance. Color-coded media designates each efficiency: yellow (90-95%), pink (80-85%), green (60-65%). Both single header and non-header are available.

### Sturdy construction and dependability

Rigifil, with its galvanized steel enclosing frame and plastic pleat spacers on the air-entering and air-leaving sides, withstands the most demanding applications. The pleat spacers and expanded metal support grid maintain the shape of the synthetic media pack and ensure both efficiency and dust-holding capacity are maximized. The wire grid covers less than 2% of the media area in such a manner that the surface for filtration is promising.

Rigifil's rigid construction with supported pleat media pack maintains a compact unitized structure under variable air velocities and repeated fan shutdowns.

The interlocked header and cellsides, along with entire length of each side, provide maximum sealing. Other brands are designed with loose fitting headers that allow greater potential for bypass leakage.

### Open header design

For Rigifil single header model, Filterfit's unique open-header design creates a built-in handle that makes carrying and installing Rigifil easy.

As an added safety measure, we roll the edges of the header to eliminate sharp edges that can make handling competitors' products hazardous.

### Layered synthetic media pack

The layered media used in Rigifil is a melt-blown synthetic protected by a scrim on the air-leaving side. Layering the media provides both a high-efficiency final filter layer that effectively filters fine particulate and an integral lofted prefilter layer that captures larger particulate.

Melt-blown synthetic media is stronger than fiberglass, non-shedding, and is water-resistant. The media pack is ultrasonic sewn both edges and is bonded to the cell sides to ensure a leak-free seal.



## Extended surface rigid air filter with synthetic media

### Selection guide & performance data:

Part no.	Model no. #	Efficiency %	Nominal size	Actual size	Airflow l/s	Resistance Pa.		Media area m2
			(mm) W x H x D	(mm) W x H x D		initial	final	
6-0220	M337-090-863	90-95 (F8)	610 x 610 x 300	595 x 595 x 300	944	105	375	5.67
6-0222	M337-090-319	90-95 (F8)	610 x 305 x 300	595 x 297 x 300	471	105	375	3.2
6-0216	M337-080-863	80-85 (F7)	610 x 610 x 300	595 x 595 x 300	944	77	375	5.67
6-0218	M337-080-319	80-85 (F7)	610 x 305 x 300	595 x 297 x 300	471	77	375	3.2
6-0212	M337-060-863	60-65 (F6)	610 x 610 x 300	595 x 595 x 300	944	45	375	5.67
6-0214	M337-060-319	60-65 (F6)	610 x 305 x 300	595 x 297 x 300	471	45	375	3.2

#### Efficiency:

90-95% (yellow)

80-85% (pink)

60-65% (green)

#### Notes:

All tested efficiencies are averages according to ASHRAE 52.1 test method.

All performance data is based on ASHRAE 52.1 test method.  
Rated UL and cUL class 2

Temperature limitation at 93 degrees Celsius and 107 degrees Celsius intermittent.

Actual depth of 300mm is 292mm

Model with header is 210mm

Width and height dimensions are interchangable

Maximum recommended final resistance in system design may require a lower change-out point.

# GV8 Compact V

- Efficiencies of 60% up to 98% (ASHRAE 52.1)
- High quality micro fibreglass media
- Lowest initial pressure drop
- Any airflow direction possible making installation easy
- Rigid frame
- Zinc-coated profiles
- Filter height only 292mm
- High quality standard due to Quality assurance system
- High burst pressure (> 2000 Pa.)
- Highly economical through high final pressure drop
- Finedust filter tested according to EN 779 (Based on ASHRAE 52.1)



The GV8 compact prefilter is designed and tested to extract particles out of the air. Each GV8 compact filter contains eight (8) Minipleat-Media Packs pleated in one piece and assembled in V-shape technology to achieve lowest pressure drop results.

## Design

The side covers are made from rigid polyurethane forming in combination with zinc coated profiles on the top and the bottom.

This design provides maximum space for the filter media pack and obtains an extremely high mechanical strength. The fibreglass media pleated in "minipleat shape" forms one continuous media and is cast in V-shape technology directly into the frame-sealant material.

This design also provides an absolutely tight media-frame connection in correlation to a highly active filter surface with a minimal pressure drop. The filters are supplied with a flat flange for a secure seal between the filter and each standard finedust holding frame.

The finedust filters are tested in accordance with the European standard EN 779 (Particulate air filters for general ventilation). This standard is based on ASHRAE 52.1'.

Gravimetric and Dust-Spot Procedures for Testing Air Cleaning Devices Used in General Ventilation for Removing Particulate Matter 1992.

## Applicable standards:

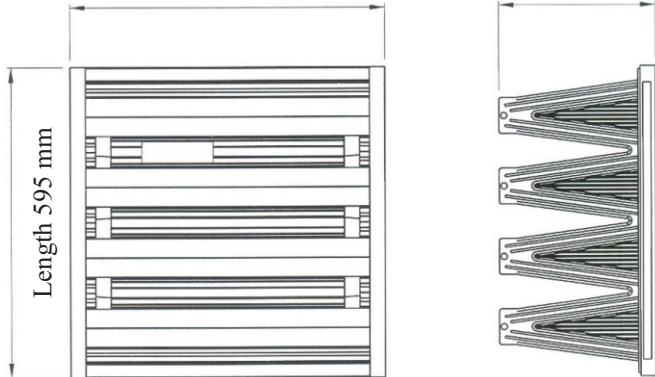
EN 779

ASHRAE 52.1

ISO 9001-2000

Width 595 or 287 mm

Depth 292 mm



# GV8 Compact V



## Technical data:

Part no.	Model no.	efficiency %	Mounting frame size (mm)	Actual size (mm) W x H x D	Airflow l/s	Resistance Pa.		Media area m2
						initial	final	
6-0112	GV8-09-66	F9	610 x 610 x 50	595 x 595 x 290	1252	134	450	20.4
6-0114	GV8-09-63	F9	610 x 305 x 50	595 x 287 x 290	627	155	450	8.8
6-0108	GV8-08-66	F8	610 x 610 x 50	595 x 595 x 290	1252	123	450	20.4
6-0110	GV8-08-63	F8	610 x 305 x 50	595 x 287 x 290	627	145	450	8.8
6-0104	GV8-07-66	F7	610 x 610 x 50	595 x 595 x 290	1252	112	450	19.8
6-0106	GV8-07-63	F7	610 x 305 x 50	595 x 287 x 290	627	137	450	8.5
6-0100	GV8-06-66	F6	610 x 610 x 50	595 x 595 x 290	1252	98	450	18.7
6-0102	GV8-06-63	F6	610 x 305 x 50	595 x 287 x 290	627	122	450	8.1

# Generic filter bags identification guide



FPC-666



FPC-636 & FPCO-636



FPCO-666



FMIW-663



FMIW-633



FMAW-666



FMAW-636

As well as the manufacture of our own product, Filterfit can manufacture generic copies of other industry standard filters.

This guide is intended to assist with the identification of air filters installed in various applications.

If available, model numbers and cross references will help to match to Filterfit's equivalents.

When ordering filters, please provide as much information as possible as there are many types and models available.

These generic filters are available in all Filterfit media and media combinations.

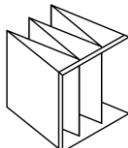
Non standard sizes can be made upon request.

If in doubt contact Filterfit for more information or to arrange an onsite visit from one of our technical representatives.

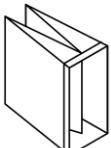
## When ordering, please specify the following criteria:

- ➡ Size (width x height x depth mm)
- ➡ Media type (washable or disposable)
- ➡ Retainer type i.e. header frame
- ➡ Retainer wire separate or fixed to media etc.

# Bag filter quick selection chart



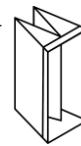
**THREE POCKET**  
610x610x600  
AT3-666/BR10  
PART NUMBER 1-3003



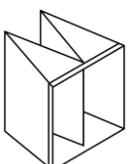
**HALF THREE POCKET**  
610x305x600  
AT3-636/BR10  
PART NUMBER 1-3013



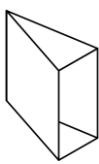
**THREE POCKET SHORT**  
610x610x350  
AT3-664/BR10  
PART NUMBER 1-3001



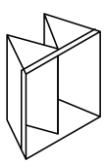
**HALF THREE POCKET**  
610x305x350  
AT3-634/BR10  
PART NUMBER 1-3021



**TWO POCKET LONG**  
610x610x600  
AT2-666/BR10  
PART NUMBER 1-6003



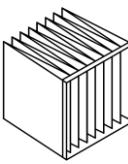
**SINGLE POCKET**  
610x305x600  
AT2-636/BR10  
PART NUMBER 1-6103



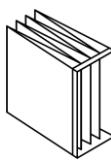
**TWO POCKET SHORT**  
610x610x350  
AT2-663/BR10  
PART NUMBER 1-7003



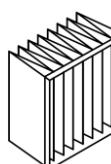
**SINGLE POCKET**  
610x305x350  
AT2-633/BR10  
PART NUMBER 1-7103



**HEADER BAG**  
595x595x560  
F5-F8 / 6-8 POCKETS



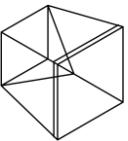
**HEADER BAG**  
595x290x560  
F5-F8 / 3-4 POCKETS



**HEADER BAG**  
595x595x350  
F5-F7 / 6-8 POCKETS



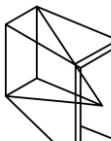
**HEADER BAG**  
595x290x350  
F5-F7 / 3-4 POCKETS



**PYRACUBE**  
610x610x600  
APC66/BR10  
PART NUMBER 1-2003



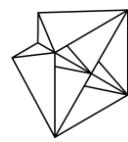
**PYRA CONE**  
610x610x600  
APC066/BR10  
PART NUMBER 1-1003



**HALF PYRACUBE/CONE**  
610x305x600  
APC63/BR10  
PART NUMBER 1-1103



**HALF FOUR PEAK LONG**  
610x305x560  
DB2-366/BR10  
PART NUMBER 1-3023



**FOUR PEAK**  
610x610x350  
AFP66/BR10  
PART NUMBER 1-0003



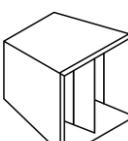
**HALF FOUR PEAK**  
610x305x350  
AFP63/BR10  
PART NUMBER 1-0103



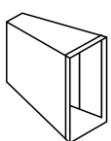
**MINIWEDGE**  
610x610x350  
AMI66/BR10  
PART NUMBER 1-5003



**HALF MINIWEDGE**  
610x305x350  
AMI63/BR10  
PART NUMBER 1-5103



**MAXIWEDGE**  
610x610x600  
AMAW66/BR10  
PART NUMBER 1-4003



**HALF MAXIWEDGE**  
610x305x600  
AMAW63/BR10  
PART NUMBER 1-4103



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Fax: 07 3890 8368  
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[www.filterfit.com.au](http://www.filterfit.com.au)



Due to on-going product development, Filterfit reserves the right to change design and specifications without notice

# Bio HEPA

**High quality HEPA filter for industrial HVAC systems**

- Classified H 10 in accordance with EN 1822
- Robust construction
- Low resistance to airflow
- High operating temperature: 150 °C
- High airflow capacity: 3000 m<sup>3</sup>/h
- Low resistance to airflow
- Suitable for front, rear and side access systems



Filter Bio HEPA are for use in semi-critical locations and are tested 95% to 0.3 micron. All filters are individually tested as H 10 EN 1822 classified filters.

Bio HEPA can be used to upgrade an existing non-HEPA installation into a HEPA installation. Made of robust materials this filter is designed for high temperature applications up to 150°C. To ensure a sturdy construction, the filter's header and cell sides are interlocked. No adhesives or sealants are used. Rigidity is further enhanced by two support bars on the air leaving side.

With an airflow capacity range of 3000 m/h Bio HEPA can also be used in high air volume applications. This high capacity feature offers many benefits: in new installations, fewer filters are required to handle the same volume of air compared to filters of the same size with a lower capacity. As a result, installation space is significantly reduced. In existing installations, Bio HEPA offers low media resistance which reduces running costs.

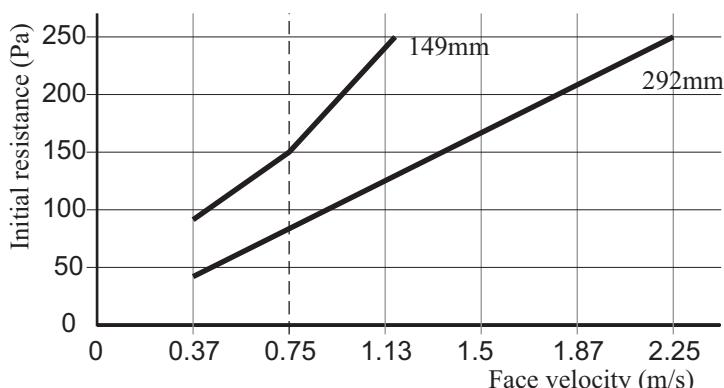
The filter is easy to install in front, rear and side access systems.

## Technical data:

**Dimensions:** 594 x 594 x 292, 594 x 594 x 149mm  
**Media:** Submicron glass fibres formed into high density paper  
**Cell sides:** Galvanised steel  
**Separators:** Corrugated aluminium  
**Disposal:** Landfill  
**Temp limit:** 150 degrees celsius

**Note:** Non-standard sizes available upon request

## Resistance vs face velocity



## Technical data:

Part no.	Size (mm)	Classification	Capacity l/sec	Initial res. Pa.	Efficiency % @ 0.3 um
	W x H x D				
6-0050	289 x 595 x 150mm	H10	472	280	95
6-0051	595 x 595 x 150mm	H10	944	280	95
6-0052	289 x 595 x 292mm	H10	472	240	95
6-0053	595 x 595 x 292mm	H10	944	240	95

# HEPA filter



- HEPA efficiencies of 95% up to 99.9995% (@ 0.3 pm)
- Finedust efficiencies of 60% up to 98% ASRHAE
- High quality micro fibreglass media
- Lowest initial pressure drop
- Rigid frames
- Frame height of 68mm up to 292mm
- High quality standard due to Quality Assurance System
- HEPA filter tested by laser particle counting system
- Highly economical through high final pressure drop
- For use in Clean Rooms up to class 1
- Usable in two flow directions

## Description:

High Efficiency Particulate Air Filters (HEPA) and Ultra Low Penetration Air Filters (ULPA) are the most efficient air filters commercially available. They have a broad application in clean rooms and other areas requiring the highest levels of contamination control.

## Construction:

HEPA filters are available in a variety of construction materials. Available types include; particle board or metal construction, single or double flange, conventional or fluid seal.

The filter media is manufactured from sub-micron glass fibres formed into high density paper. Continuous sheets are pleated to provide a high ratio of media area to face area, resulting in low media velocity which is essential for ultra high efficiency filtration.

HEPAs are available in aluminium separator type or close pleat configuration. The sealing to filter housing or frame is achieved through a leak-free, dry seal system. High capacity HEPAs are also available.

## Efficiency

HEPA Efficiency - 99.99% minimum efficiency on 0.3 micron particles.

Every HEPA filter is individually tested to international standards before it leaves the manufacturers factory. The penetration and actual resistance at test air flow rate are clearly indicated on the filter label.

## Installation:

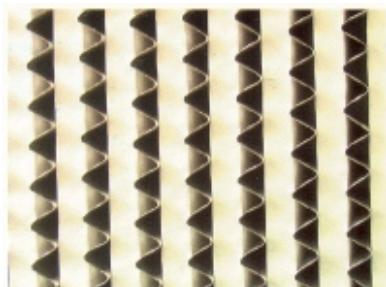
Filters are installed into specially designed modules or permanent mounting frames which incorporate clamps, that when tightened ensure that the filters gasket is sealed against the mounting frame.

Filter installation should be on-site NATA certified to ensure that the HEPA filter was not damaged during delivery or installation and to ensure the integrity of the seal between the filter/frame seal.

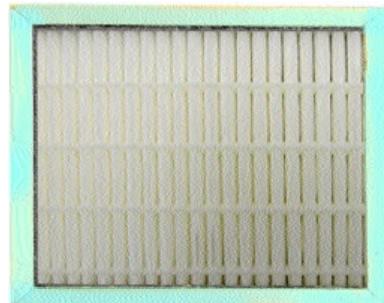
Due to the high performance of the HEPA filter it is recommended that a pre filter be installed to extend the service life of the filter.

It is also recommended that a pressure gauge be installed across the filter bank, to ensure optimum filter life is achieved.

# HEPA filter



Aluminium separator  
media pack



Separatorless  
media pack

## Aluminium separator style:

Part no.	Size	Capacity l/s @ 250 Pa.
6-0054	305 x 305 x 150	93
6-0055	305 x 610 x 150	186
6-0060	305 x 610 x 292	282
6-0056	610 x 610 x 150	372
6-0061	610 x 610 x 292	566
6-0057	610 x 762 x 149	465
6-0062	610 x 762 x 292	706
6-0058	610 x 914 x 150	557
6-0059	610 x 1215 x 150	743

## Separatorless style:

Part no.	Size	Capacity l/s @ 250 Pa.
6-0004	305 x 305 x 150	70
6-0005	305 x 610 x 150	140
6-0010	305 x 610 x 292	280
6-0006	610 x 610 x 150	280
6-0010	610 x 610 x 292	560
6-0007	610 x 762 x 149	350
6-0018	610 x 762 x 292	690
6-0008	610 x 914 x 150	420
6-0009	610 x 1215 x 150	560

## Fluid seal style:

Part no.	Size	Capacity l/s @ 250 Pa.
6-2000	560 x 560 x 210	300
6-2001	560 x 890 x 210	462
6-2002	560 x 1160 x 210	624

# Mini pleat HEPA filter

The Filterfit Minipleat is designed and tested to extract the smallest particles out of the air.

The Filterfit Minipleat contains a fibreglass media pack in five (5) different heights (47mm, 56mm, 70mm, 93mm, 140mm) and in different kinds of extruded aluminum frames. The filter media is pleated in Minipleat shape with a new application technology of Hot Melt Spacers to achieve lowest pressure drop results.

- HEPA efficiencies of 95% up to 99.99995% (@ 0.3 pm )
- Finedust efficiencies of 60% up to 98% ASRHAE
- High quality micro fibreglass paper
- Lowest initial pressure drop
- Rigid frames
- Frame height of 70 mm up to 197 mm
- High quality standard due to Quality Assurance System
- HEPA filter tested by laser particle counting system
- Highly economical although high final pressure drop
- For use in clean rooms up to class 1
- Usable in two flow directions

## Design

The filter frame is made from anodized extruded aluminum profile with two angles in each corner to get a rigid straight filter. Each of the different types of extruded aluminum profiles contains a few sealant anchors to prevent any leakage between frame and media during the filter life. Furthermore, there are features available such as a knife-edge for fluid seal connection. Alternatively, the fluid can be



incorporated within the filter frame. All types of Minipleat filters are available with one or two screens and gaskets. The fibreglass media pleated in Minipleat shape, available in five (5) different heights (47, 56, 70, 93 and 140 mm) is cast with polyurethane sealant into the frame. This design achieves a highly active filter surface and ensures the minimal pressure drop of the Minipleat model.

## Testing

Each Minipleat filter is tested and packed in accordance to American Standard IEST-RP-CC-001.3 (HEPA and ULPA Filters) or in accordance with the European standard EN 1882-1, 4 & 5 (Testing filter elements HEPA and ULPA efficiency and scan method) or customer requested testings.

## Low velocity HEPA filter data:

# Mini pleat HEPA filter

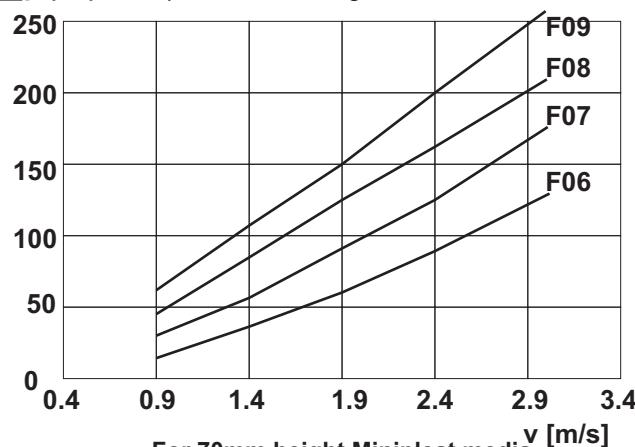
		H10	H13	H14	U15
Rated face velocity	m/s	0.5	0.5	0.5	0.5
Media pack	mm	47, 56, 70, 93	47, 56, 70, 93	47, 56, 70, 93	47, 56, 70, 93
Initial pressure drop @ rated airflow	Pa	53, 48, 40, 36	120, 110, 88, 80	133, 120, 100, 88	155, 138, 115, 98
Filter class as per EN 1822		H10	H13	H14	H15
Filter class as per Eurovent 4/4		EU10	EU13	EU14	
Filter class as per DIN 24184		R	S	T	
Initial efficiency @ rated airflow					
Test with MPPS (integral)	%	>85	>99.95	>99.995	>99.9995
Test with aerosol s0.3 Fm (integral)	%	>95	>99.995	>99.9995	>99.99995
Recommended final pressure drop	Pa	600	600	600	600
Flammability classification to DIN 53438		K1/F1	K1/F1	K1/F1	K1/F1
Max. relative humidity	%	100	100	100	100
Max. continuous temperature	0C	80	80	80	80

## High velocity HEPA filter data:

		H10	H13	H14
Rated face velocity	m/s	1.5	1.5	1.5
Media pack	mm	140	140	140
Initial pressure drop @ rated airflow	Pa	53, 48, 40, 36	205	230
Filter class as per EN 1822		H10	H13	H14
Filter class as per Eurovent 4/4		EU10	EU13	EU14
Filter class as per DIN 24184		R	S	T
Initial efficiency @ rated airflow				
Test with MPPS (integral)	%	>85	>99.90	>99.995
Test with aerosol s0.3 Fm (integral)	%	>95	>99.990	>99.9995
Recommended final pressure drop	Pa	600	600	600
Flammability classification to DIN 53438		K1/F1	K1/F1	K1/F1
Max. relative humidity	%	100	100	100
Max. continuous temperature	0C	80	80	80

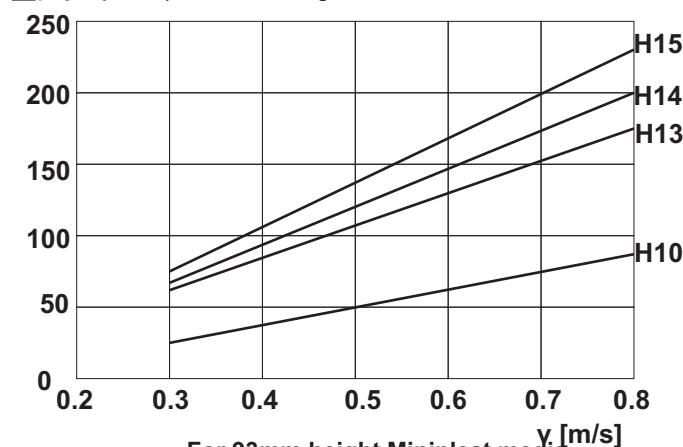
$\Delta p$  (Pa)

For 47mm height Minipleat media pack in Finedust grades



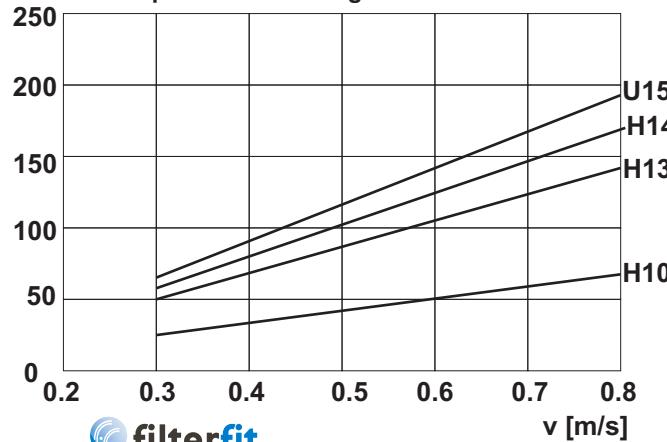
$\Delta p$  (Pa)

For 56mm height Minipleat media pack in HEPA grades



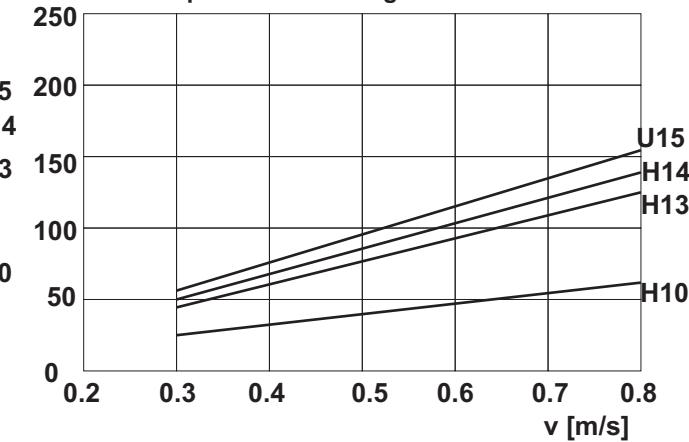
$\Delta p$  (Pa)

For 70mm height Minipleat media pack in Finedust grades



$\Delta p$  (Pa)

For 93mm height Minipleat media pack in Finedust grades

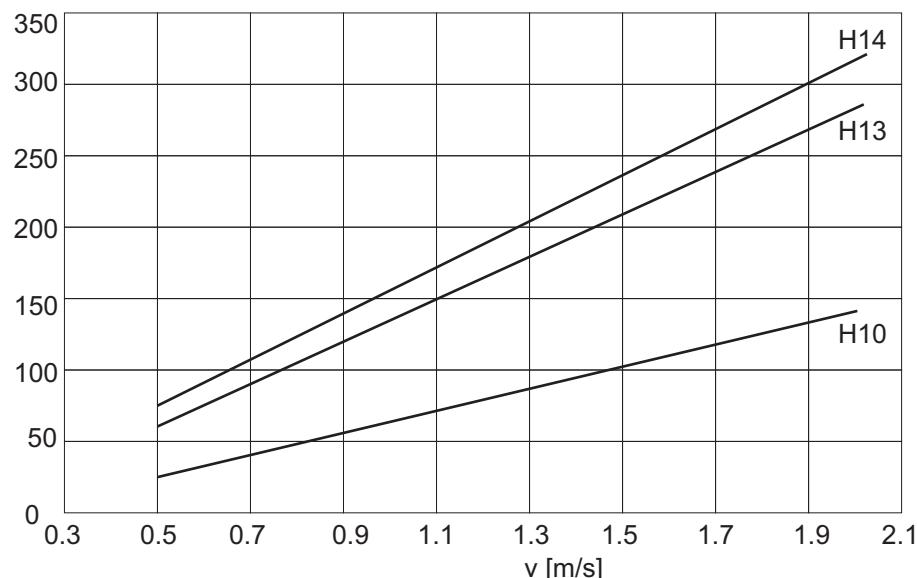


Due to on-going product development, Filterfit reserves the right to change design and specifications without notice

# Mini pleat HEPA filter

$\Delta p$  (Pa)

For 140mm height Minipleat media pack for HEPA grades



## Specifications:

Filter sizes (mm)	HEPA filter rated airflow l/sec media pack 47-93 mm @ velocity 0.5 m/s	HEPA filter rated airflow l/sec media pack 140 mm @ velocity 1.5 m/s	Finedust filter rated airflow l/sec media pack 47-70 mm @ velocity 2.4 m/s
305 x 305	47	139	222
305 x 610	93	279	447
610 x 610	186	559	893
762 x 610	233	697	1115
915 x 620	279	837	1338
1220 x 610	372	1116	1786

# Terminal HEPA modules



## Applications

Filterfit HEPA modules are designed for use in cleanroom or critical environment applications that require the installation of HEPA filters at the point of entry to room. This requirement is set out in Australian Standard AS1386. Cleanrooms and clean workstations, and the Code of Good Manufacturing Practice for Therapeutic Goods - Medicinal Products published by the Department of Community Services and Health.

Typical cleanroom applications include:

- Hospital operating theatres
- Electronics manufacture
- Food and pharmaceutical manufacture
- Processing, manufacturing and packaging of high precision goods

## Description

Filterfit terminal HEPA modules are fully-manufactured in Australia and designed for installation in ceilings of new cleanroom construction, or for upgrading existing rooms. Modules are suitable for use in ceilings of plasterboard and sandwich panel construction. Filterfit terminal modules supplied comprise the plenum, HEPA filter and fascia. Modules can be supplied with a variety of options including inlet and outlet sizes and positions (top or side entry), fascia

finish and remote plug-in fan box.

## Construction

The housing is constructed of 1.2mm zincaneal with powder-coated white gloss finish. Each module incorporates pre-drilled hanging brackets at top to aid in suspension

Standard fascia guards are supplied with gloss white finish. Stainless steel and aluminium finishes are available on request. Fascia guards are secured with quick release fasteners for ease of access to HEPA filter.

## Fan

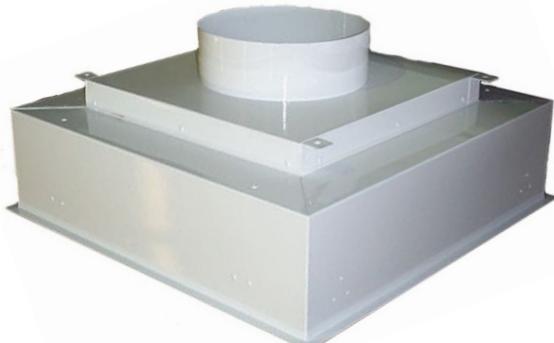
A remote plug in fan module with variable speed control can be supplied to assist the delivery of air from the central air supply system or transfer air from designated areas. Remote fan use provides quieter operation and easier servicing.

## Power

Provided by a single phase, 240v, 10 amp, 3 pin plug.

## HEPA filters

HEPA filters are manufactured to the most exacting standards for critical applications. Each filter is individually certified to achieve an arrestance efficiency of not less than 99.99%.



# Terminal HEPA modules

## Installation and maintenance

Filterfit can provide the initial on-site installation of the filter module and HEPA and provide NATA certification of unit ensuring conformity to Australian standards.

## Testing

HEPA filters require testing at least annually or after HEPA filter replacement.



## Specifications:

Part no.	Model	Clean capacity at 0.6 m/sec	Nom. dimensions (W x H x D)	Spigot dia. (mm)	Type
6-3001	FF22TE	245 l/s	700 x 700 x 300	300 / optional	top entry supply
6-3003	FF22SE	245 l/s	700 x 700 x 570	300 / optional	side entry supply
6-3005	FF32TE	360 l/s	700 x 1000 x 300	300 / optional	top entry supply
6-3006	FF32SE	360 l/s	700 x 1000 x 570	300 / optional	side entry supply
6-3002	FF42TE	475 l/s	700 x 1305 x 300	300 / optional	top entry supply
6-3004	FF42SE	475 l/s	700 x 1305 x 570	300 / optional	side entry supply

Filters sold as separate item

# Filterfit benchtop extraction unit

## Description

The FFBEU benchtop extraction units are designed specifically for laboratories and pharmacies, for the containment of hazardous airborne particles. The units provide high efficiency particulate filtration for eliminating residual dust, allowing the air to be recirculated inside a room.

## Construction

The units are constructed from galvanised steel with a powder-coated white finish, for corrosion protection. Stainless Steel Constructions are available on request.

The units include pre filters and final filters which are accessed easily from the front of the unit.

Depending on the size of the enclosure, the units come with either one or two variable drive forward curve centrifugal fans. A constant airflow and velocity is maintained with the aid of an automatic speed controller working in tandem with an air velocity sensor. Velocities can be adjusted to suit the desired conditions. The sensor includes a digital read out for visual indication of the velocity.

The units incorporate a workspace confined in a clear perspex enclosure to minimise any proliferation of particulates from the confinement. The air is recirculated back into



the room, upward away from the work space by a unidirectional louvre.

There are 3 standard manufactured units designed to sit on a desk or bench top. Custom mounted designs are also available on request.

## Filtration

Depending on customer requirements , a semi absolute or absolute grade final filter is installed behind disposable panel pre filters.

Each Absolute filter is individually tested and certified to achieve a minimum efficiency of not less than 99.99% to 0.3 micron particles.

## Fan details

Motor - EW external rotor motor with suspension both sides (extremely favourable noise and structure borne noise values.)

## Bearings

Calotte sleeve bearings with a medium life expectancy of 15000 h.

## Electricity Supply

Single phase 50HZ, 230V.

## Fan

200W, 0.88A.

## Noise Level

Max 65 DBA



# Medi-Vent™ clean air unit



## Applications

The Filterfit Medi-Vent™ clean air unit is designed to provide negative air pressure to critical areas where airborne contaminants and noise emission are a problem. Areas such as the hospital environment where patient welfare is paramount make Medi-Vent™ the ideal choice for the following:

- Building works
- Isolation rooms
- Clean air zones
- Equipment rooms

## Description

The Medi-Vent™ is fully designed and manufactured in Australia. Its primary function is to provide a negative air pressure to a room or area where possible dust and airborne micro-organisms such as Aspergillus may be present.

With operating noise levels under 50 decibels, it draws contaminated air through a three-stage filtration system ensuring clean air is delivered into adjacent work zones. Units are fitted with an audible alarm to indicate when filters require replacement. End panels are interchangeable giving greater flexibility when required.

The Medi-Vent™ can be used as either a ducted or recirculatory unit.

- Sound level under 50 decibels
- Modular construction
- Variable speed control
- Audible alarm
- Interchangeable ends
- Hospital grade castors
- Three stage filtration
- Dual magnehelic gauges
- Portability
- Ducted or free-standing
- Ergonomic design

## Performance

Each Medi-Vent™ incorporates a three-stage filtration system. The first stage traps and removes the larger particles and gives extended life to the second and third stage filters.

The second stage is a deep bed filter with the third stage being a HEPA providing 99.99% efficiency to 0.3 micron. Each HEPA filter is individually tested and certified to guarantee its efficiency. All testing is conducted to international standards.



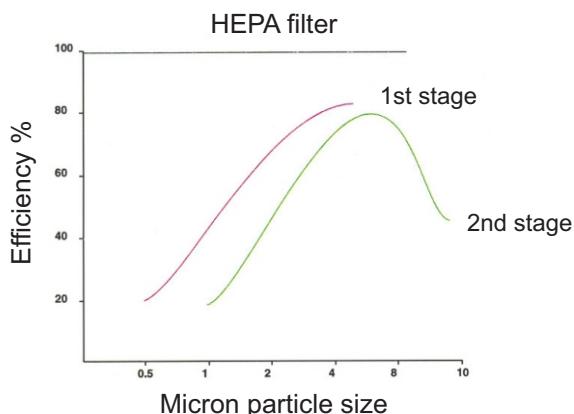
# Medi-Vent™ clean air unit

## Operational noise levels

44 D.B.A. @ 280 L/S

48 D.B.A. @ 400 L/S

55 D.B.A. @ 480 L/S



## Construction

The Medi-Vent™ is constructed of heavy gauge steel and finished in a durable two part epoxy finish. Generous end panels allow access to filter and fan.

Castors fitted to the Medi-Vent™ are of a hospital grade and supplied with brakes and directional lock fitted for extra safety, to prevent movement of the unit whilst on site or in storage. Ergonomically positioned handles are fitted for ease of lifting and positioning.

## Fans

Variable speed direct drive fan enables airflow adjustment to extend filter life.

## Electrical

Via a 10 amp single phase 240v Power supply

## Filter replacement

Two different pressure gauges mounted in the recessed control panel continuously monitor the contaminant loading on the filters. An audible alarm will sound to indicate to the operator when filters require replacement.

A complete set of filters should be kept on site to reduce any downtime. Only genuine Filterfit replacement parts should be used.

## Servicing

Under normal conditions daily monitoring of filters should provide adequate needs.

However should the unit be used without the HEPA filter installed, a full decontamination of the unit would need to be carried out. This will ensure cleanliness before it is used in other areas.



Unit without attenuator section

# FFVAC disposable activated carbon filters

Model FFVAC Activated Carbon filters are used in conjunction with ventilation and air conditioning systems for the removal of undesirable gases and vapors (odours etc.) from the air stream by a process called "adsorption".

FFVAC filters are manufactured using high activity carbons for use in general air treatment applications, including commercial kitchens and industrial installations. The activated carbon used in FFVAC filters is manufactured from specific grades of coconut shell, which produces high quality carbon that can meet the demands of general air treatment.

Compounds and odours which are adsorbed with standard carbon include; acetic acid, adhesives, animal odours, asphalt fumes, antiseptics, bathroom smells, body odour, cheese, cigarette smoke odour, diesel fumes, detergents, fish odours, fuel, hospital odours, kitchen odours, methyl ethylene ketone, ozone, paint odours, perfumes and varnish fumes. (For a more complete list of compounds contact Filterfit.)

A range of impregnated carbons, designed for removal of specific fumes, are also available to suit application.

FFVAC carbon filters come complete with a standard galvanised steel holding frame for new installations. The filters are manufactured from light gauge aluminium and incorporate a 25 mm header frame on the front. The entire unit is disposable.

FFVAC carbon filters are installed by permanently fixing the permanent mounting frame into the ductwork ensuring that there is sufficient support for the filters weight (see specifications). The carbon filters fit into the



holding frames with the main body of the filter protruding out the back of the holding frame.

By fixing mounting frames together, any number of filters can be installed to make up a filter bank to handle the required air quantity, however supports will be required to support the weight of the carbon filters.

The activated carbon filters are not designed to remove particulate, conventional particulate and/or grease filters should be installed on the dirty air side of the carbon filters to prevent dust or grease from blinding the carbon filter which will severely effect its performance.

The activated carbon used in the FTAC carbon filters will adsorb large amounts of odours before its efficiency decreases. When efficiency of the carbon decreases, the complete carbon filter is to be replaced.

When replacing carbon filters, it must be ensured that the same replacement carbon is utilised as was originally installed, so as to maintain the desired performance.

# FFVAC disposable activated carbon filters

## Performance data:

Specifications	FFVAC663	FFVAC633
Outer frame dimension (mm)	595 x 595 x 292	595 x 290 x 292
Rated capacity	944 l/sec	565 l/sec
Clean resistance	70 Pa	100 Pa
Weight of carbon	12.5 kg	6 kg
Total weight	18.5 kg	10 kg
Maximum operating temperature	52°C	52°C

Note: Sizes are standard sizes - custom sizes are available on request

## Performance data for Envirocarb 208AC activated carbon:

CTC adsorption (% w/w)	60 - 70
Surface area (m <sup>2</sup> g <sup>-1</sup> )	1150 - 1350
Bulk density (g cm <sup>-3</sup> )	0.47 - 0.51
Loose-filled density (g cm <sup>-3</sup> )	0.44-0.48
Moisture content (% w/w)	< 5
Hardness %	95 - 99
PH	9 - 11

# FFAC rechargeable activated carbon filter

## Description:

Model FFAC Activated Carbon filters are used in conjunction with ventilation and air conditioning systems for the removal of undesirable gases and vapors (odours etc.) from the air stream by a process called "adsorption".

FFAC filters are manufactured using high activity carbons for use in general air treatment applications, including commercial kitchens and industrial installations. The activated carbon used in FFAC filters is manufactured from specific grades of coconut shell, which produces high quality carbon that can meet the demands of general air treatment.

Compounds and odours which are adsorbed with standard carbon include; acetic acid, adhesives, animal odours, asphalt fumes, antiseptics, bathroom smells, body odour, cheese, cigarette smoke odour, diesel fumes, detergents, fish odours, fuel, hospital odours, kitchen odours, methyl ethylene ketone, ozone, paint odours, perfumes and varnish fumes. For a more complete list of compounds contact Filterfit.

A range of impregnated carbons, designed for removal of specific fumes, is also available to suit various applications.

FFAC carbon filters consist of an outer frame manufactured from galvanised steel which is fitted with up to 12 individual galvanised steel framed panels, installed in a V configuration. Each individual panel contains carbon granules between two pieces of perforated metal, incorporating fine aluminium mesh to prevent any carbon dust carry over. The carbon is packed into the individual panels using vibration, to ensure there is no settling of the carbon in transit which may cause air by pass.

FFAC carbon filters are installed by permanently fixing the outer frame into the ductwork ensuring that there is sufficient support for the filters weight (see specifications). By fixing frames together, any



number of filters can be installed to make up a filter bank to handle the required air quantity, however supports will be required to support the weight of the carbon filters. As the inner cells can be removed from one side of the filter only, it is critical that access is available to that side for servicing.

The activated carbon filters are not designed to remove particulate, conventional particulate and/or grease filters should be installed on the dirty air side of the carbon filters to prevent dust or grease from blinding the carbon filter which would severely effect its performance.

The activated carbon used in the FFAC carbon filters will adsorb large amounts of odours before its efficiency to adsorb decreases. When efficiency of the carbon decreases, the carbon can be easily replaced by removing the individual panels from the filter and replacing the carbon with new activated carbon which has equal performance to the carbon initially supplied.

The new carbon should be installed into the panels ensuring there is no possibility of the carbon settling and allowing air by pass. Complete replacement panels are also available which are sealed so that there is no risk of their performance deteriorating whilst they are in

# FFAC rechargeable activated carbon filter

## Performance data:

Specifications	FFAC666	FFAC636
Outer frame dimension (mm)	610 x 610 x 590	610 x 305 x 590
Rated capacity	944 l/sec	565 l/sec
Clean resistance	110 Pa	60 Pa
Weight of carbon	41 kg	21 kg
Total weight	100 kg	60 kg
Maximum operating temperature	52°C	52°C

Note: Sizes are standard sizes - custom sizes are available on request

## Performance data for Envirocarb 208AC activated carbon:

CTC adsorption (% w/w)	60 - 70
Surface area (m <sup>2</sup> g <sup>-1</sup> )	1150 - 1350
Bulk density (g cm <sup>-3</sup> )	0.47 - 0.51
Loose-filled density (g cm <sup>-3</sup> )	0.44-0.48
Moisture content (% w/w)	< 5
Hardness %	95 - 99
PH	9 - 11

# Mist eliminator



The Filterfit Mist eliminator is effective in the reduction of water, fog & oil-mist from exhaust systems and supply air applications.

Multiple layers of Polypropylene meshes trap airborne moisture droplets within a matrix and allow them to drain to the frame of the unit and away through drainage holes provided.

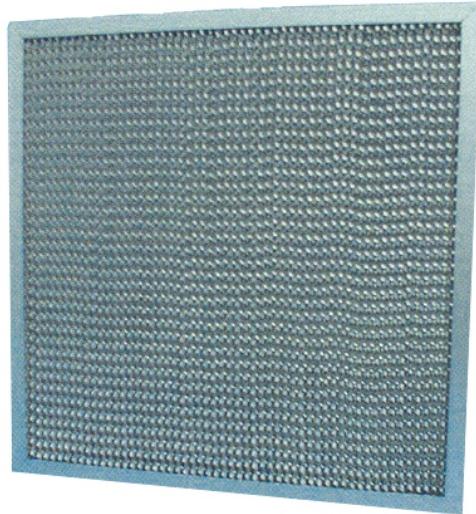
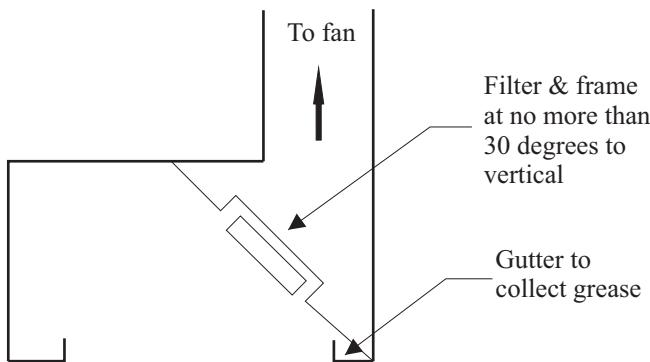
100mm nominal thickness 2 part, galvanized outer frame allows the replacement of the media pack as required.

When utilized in a bank, these filters can be fitted with hardware that allows free draining of the system. Options for the Mist Eliminator including stainless steel construction (outer frame and media pack) are available upon request.

Filterfit mist eliminators can be made to order in any size to suit the needs of any application.

# Honeycomb aluminium grease filter

## Typical installation



### Description:

Honeycomb grease filters are a 50 mm thick panel filter incorporating corrugated aluminium filter media designed for use in cooking exhaust applications.

### Construction:

The filter is manufactured with a 1.6 Aluminium frame surround, enclosing a honeycomb filter core. The frame is pop riveted together to allow easy replacement of the filter core if required and incorporates handles on the vertical sides of the filter.

The filters are manufactured with drainage holes on each corner so as excess grease and oil can drain to the collecting channels, along the perimeter of the exhaust hood. The filter core is manufactured from work hardened aluminium, which is formed into a corrugated honeycomb.

The smooth walled passages of the aluminium core, reduces clogging of the filter and allows the filter to be easily cleaned.

### Applications:

Honeycomb filters are lightweight washable panel filter designed for use in cooking exhaust systems, for removal grease and oil from the exhaust air stream.

### Installation:

Aluminium or galvanized steel holding frames are available for the filter to be easily installed into kitchen exhaust hoods.

Grease filters must be installed with the honeycomb media running vertical and the face of the filter at an angle to the horizontal (no more than 30° from the vertical), so as the excess grease and oil can drain from the filter.

# Honeycomb aluminium grease filter

## Maintenance:

Grease filters must be cleaned regularly to reduce the risk of collected grease from dropping back from the filter and to prevent dangerous amounts of combustible material from building up in the filter.

The filter panel is readily removed from the filter holding frame or slide. Filters can be easily cleaned with high pressure water, to remove grease and oil. Caustic cleaning solutions

must not be used as they will corrode the aluminium media and frame.

When cleaning filters it is important that there is no possibility for the run off to enter storm water drains.

## Performance:

Filters are available in standard sizes as detailed in the table below. Non-standard sizes are also available on request. Holding frames are manufactured from either galvanised steel or aluminium.

## Specifications:

Filter size (mm)	Nominal air flow l/sec	Clean resistance
295 x 495	360	25 Pa.
395 x 495	490	25 Pa.
495 x 495	610	25 Pa.
622 x 395	610	25 Pa.
622 x 495	760	25 Pa.
495 x 750	920	25 Pa.
595 x 595	890	25 Pa.

# Differential pressure gauges & manometers

**Dwyer series 2000 Magnehelic Gauges** have easy to read 100 mm dials that indicate positive, negative or differential pressure. The gauges are manufactured from die cast aluminium to resist vibration, shock and over pressure.

The gauges require no maintenance except for occasional zero setting by opening the plastic vents then turning and adjusting the external front screw.



## Mark II molded plastic Manometer

Dwyer MKII inclined manometers are available with a range of -10 to 700 Pascals. The curved inclined-vertical tube provides higher ranges with more easily read increments at low readings. The gauges are constructed from molded white acrylonitrile housing, indicating tube and fluid wells, molded ABS knobs and zero adjust plunger, shock mounted glass level vial and leak proof "0" ring seals. Moderate overflow pressures are accommodated by an overflow tank.

Standard inclusions with the gauge are; 2.4 mt of flexible double column plastic tubing, two tubing connectors, two mounting screws, 3/4 oz. of indicating fluid, red & green indicating flags and complete instructions.

Standard gauge mounting accessories furnished are two 1/8" NPT plugs for duplicate pressure taps, two 1/8" pipe thread to rubber tubing adapters and flush mounting adapters and screws



Optional Accessory kit A605 contains a mounting panel with screws, two static pressure tip with compression fittings, two 1.5 mt. lengths of aluminium tubing and two molded pressure vent valves



Optional accessory adjustable signal flags with plastic gauge cover can be fitted to the front face of the gauge for immediate visual reference to maximum allowable pressure drop.

# Duct & canopy cleaning

- Before and after photos supplied
- Out of hours cleaning
- Certificate issued
- Insurance-compliant



## Duct cleaning

The H.V.A.C. system serves as a means to distribute conditioned air throughout your building. Unfortunately this can also be a means to distribute contaminants throughout the building.

If not properly maintained your system may harbor bacteria dust, pollen and moulds. These can be a source of allergic reactions to your staff.

Duct cleaning also ensures your coils, condensate trays, fans and ductwork are operating to optimum efficiency.

## Canopy cleaning

The facts are that cooking exhaust systems represent a major fire hazard if not maintained properly.

Grease builds up in the canopy and ductwork, which can ignite, causing a fire to engulf your premises.

Regular cleaning of the canopy and ductwork ensures compliance to all insurance and legislative requirements and ensures optimum efficiency for your fan and impeller.



# Process Filtration Equipment Guide

- Pleated Dust Collector Cartridges
- Fabric Dust Collector Bags
- Liquid Filter Cartridges
- Gaf™ Style Bags
- Liquid Filter/Strainer Bags
- Needlefelt/Woven Fabrics
- Monofilament Meshes
- Inlet Filter Elements

As well as HVAC filters detailed in this catalogue, Filterfit also manufactures and supplies a full range of industrial filters for use in both process air and liquid applications.

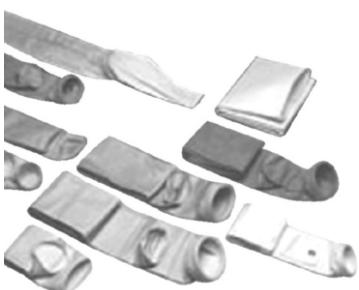
All standard dust collector bags, cartridges and blower filters can be supplied as well as all non-standard sizes made to order.

Liquid filter cartridges for a broad range of liquid applications are available in a range of micron sizes and styles. Cartridge housings available with synthetic or metal bodies depending on the application.

- Dust Collector Cages
- Cartridge Housings
- Pressure Vessel Housings
- Flexible Connectors
- Mist Eliminators
- Milling Accessories
- V-Belts

Stainless Steel Pressure Vessels and related accessories, supplied in all industry standard sizes with various connection sizes and formats.

Flexible connectors for both static and kinetic applications in Kevlar, P.V.C, Silicone, Polyester or Cotton. Suitable for any product transfer application. Food grade materials also available on request.



Dust collector bags



Pleated inlet filters



Pleated dust collector cartridges



Dust collector cages



Liquid filter cartridges



Cartridge housings

# Process Filtration Equipment Guide



Gaf™ style bags /  
Adapter heads



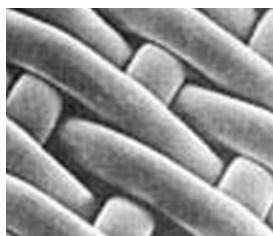
Pressure vessel housings



General liquid filter bags



Needlefelts



Monofilaments



Kevlar transitions



Flexible connectors /  
Milling accessories



Sifter pads & balls



V-belts

Should you require further information on any of Filterfit's process filtration equipment, please contact your Filterfit technical representative for assistance.

# Technical data sheet

**Media Type:** BR6

**Description:** Grey/White filter media offering low to medium efficiency. Suitable for use in small air-conditioning and ventilation systems.

**Application:** Generally used for systems requiring low cost, low resistance filtration.

**Sizes:** Available in rolls 2.1mtrs x 40mtrs. Can also be supplied as lineal meterage, cut pads or bags.

Performance	
Classification:	Type 1, Class B
Weight:	150g/m <sup>2</sup>
Rating:	G2/G3
Loft:	Approx 10mm
Colour:	grey/white
Rated velocity:	1.8m/s
Initial pressure drop:	35pa
Final pressure drop:	125pa
Average arrestance:	80%
General specs:	Due to variations in raw materials (i.e. fibre denier), specifications may vary without notice.

**Maintenance:** The media can be cleaned by back washing with cold water from a medium pressure hose. Allow the filter media to dry completely before re-installing. Washable filters can be washed a number of times before they require replacing however, filter performance will progressively deteriorate with each wash.

**(Note: Local council or water restrictions may not permit the washing of filters or the run off from washed filters to enter storm water drains)**

# Technical data sheet

**Media Type:** BR10

**Description:** White, dry, disposable filter media offering medium efficiency. Suitable for use in air-conditioning, ventilation or exhaust systems.

**Application:** Suitable for most air-conditioning applications requiring medium efficiency, low cost filtration

**Sizes:** Available in rolls 2.1mtrs x 20mtrs. Can also be supplied as lineal meterage, cut pads, bags or panels.

Performance	
Classification:	Type 1, Class B
Weight:	400g/m <sup>2</sup>
Rating:	F5 *
Loft:	Approx 25mm
Colour:	white
Rated velocity:	1.8m/s
Initial pressure drop:	50pa
Final pressure drop:	125pa
Average efficiency No. 1 dust:	40%
Average arrestance:	90%
General specs:	Due to variations in raw materials (i.e. fibre denier), as well as media configuration i.e. bag or panel, specifications may vary without notice.

**Maintenance:** The media is disposable and should be replaced upon reaching final resistance.

\* This efficiency is achieved in bag configuration.

# Technical data sheet

**Media Type:** BR12

**Description:** Cream, dry, disposable filter media offering medium efficiency. Suitable for use in air-conditioning, ventilation or exhaust systems.

**Application:** Suitable for most air-conditioning applications requiring medium efficiency, low cost filtration.

**Sizes:** Available in rolls 2.1mtrs x 20mtrs. Can also be supplied as lineal meterage, cut pads, bags or panels.

Performance	
Classification:	Type 1, Class B
Weight:	400g/m <sup>2</sup>
Rating:	F5 *
Loft:	Approx 25mm
Colour:	white
Rated velocity:	1.8m/s
Initial pressure drop:	39pa
Final pressure drop:	125pa
Average efficiency No. 1 dust:	50%
Average arrestance:	94%
General specs:	Due to variations in raw materials (i.e. fibre denier), as well as media configuration i.e. bag or panel, specifications may vary without notice.

**Maintenance:** The media is disposable and should be replaced upon reaching final resistance.

\* This efficiency is achieved in bag configuration.

# Technical data sheet

**Media Type:** BR16

**Description:** Red/White filter media offering low to medium efficiency. Suitable for use in air-conditioning, ventilation or exhaust systems.

**Application:** Generally used in systems requiring low cost, low resistance filtration.

**Sizes:** Available in rolls 2.0mtrs x 20mtrs. Can also be supplied as lineal meterage, cut pads or bags.

Performance	
Classification:	Type 1, Class B
Weight:	350g/m <sup>2</sup>
Rating:	G3
Loft:	Approx 20mm
Colour:	red/white
Rated velocity:	1.8m/s
Initial pressure drop:	35pa
Final pressure drop:	125pa
Average arrestance:	85%
General specs:	Due to variations in raw materials (i.e. fibre denier), specifications may vary without notice.

**Maintenance:** The media can be cleaned by back washing with cold water from a medium pressure hose. Allow the filter media to dry completely before re-installing. Washable filters can be washed a number of times before they require replacing however, filter performance will progressively deteriorate with each wash.

**(Note: Local council or water restrictions may not permit the washing of filters or the run off from washed filters to enter storm water drains)**

# Air filter selection chart

Filter performance ratings to Australian Standard AS1324.1

Performance rating	Average arrestance Arrestance (Am) No. 4 test dust	Average arrestance Efficiency (Em) No. 1 test dust	Maximum final resistance Pa
G1	Am < 65		250
G2	65 <= Am < 80		250
G3	80 <= Am < 90		250
G4	90 <= Am		250
F5		40 <= Em < 60	450
F6		60 <= Em < 80	450
F7		80 <= Em < 90	450
F8		90 <= Em < 95	450
F9		95 <= Em	450

## Filter types

Type 1: Dry

Type 2: Viscous impingement i.e. Adhesive (gel) coated

Type 3: Metal viscous, MVO or honeycomb grease type

Type 4: Electrostatic precipitators

## Filter classes

Class A: Fully disposable, entire filter i.e. Disposable panel filters

Class B: Replaceable media reusable frame i.e. FT3 bag filters etc.

Class C: Reusable frame and media, after cleaning i.e. Washable panels or bag filters

Class D: Self-renewable i.e. Automatic roll filter etc.

# Air filter selection chart

**Typical particle arrestance efficiency for various grades of filter media**  
**Particulate diameter in microns**

1 micron = 1/1000 of a mm

10 micron = 10/1000 of a mm and is the smallest particle able to be seen by the human eye.

Rating performance	10 micron	5 micron	1 micron	0.5 micron	0.1- 0.3 micron	Filter type
G1	90%	60%	20%	0%	0%	pre-filter
G2	96%	75%	30%	10%	0%	pre-filter
G3	97%	85%	45%	25%	0%	pre-filter
G4	98%	92%	58%	35%	5%	pre-filter
F5	98%	97%	70%	45%	20%	secondary
F6	99%	98%	82%	62%	40%	secondary
F7	99.9%	99%	88%	72%	55%	secondary
F8	99.9%	99.9%	97%	88%	78%	secondary
F9	99.99%	99.99%	98%	95%	93%	secondary
H10-H14	100%	100%	100%	100%	99.99%	HEPA
U15-U17	100%	100%	100%	100%	99.9975%	ULPA

For more information on HEPA or ULPA grades please contact your local distributor

## AS1324 test dusts approximate micron sizes

No. I (methylene blue) - mass median diameter of .65 microns

No.4 5% Cotton fibres

23% Molocco Black 0.8 micron

72% Air Cleaner fibres	39%	0 to 5 micron
	18%	5 to 10 micron
	16%	10 to 20 micron
	18%	20 to 40 micron
	9%	40 to 80 micron

## Sizes of particles

Heavy industrial dusts - up to 4000 micron (4mm) Fine road dust - 5 to 20 micron

Dense smoke carbons and cigarette smoke - 0.01 to 1 micron bacteria - 0.8 to 10 microns

Pollens - 5 to 80 micron

Mould spores - 3 to 15 microns

Viruses - 0.01 to 0.25 microns

# Particle size table

<b>Substance</b>	<b>approximate range of particle diameters (microns)</b>
Rain drops	500 - 5000
Natural mist	60 - 500
Natural fog	2 - 60
Pollens	10 - 100
Ground talc	0.5 - 50
Bacteria	0.3 - 35
Plant spores	10 - 35
Insecticide dusts	0.5 - 10
Stoker fly ash	10 - 8000
Pulverized coal, fly ash	1 - 50
Foundry dusts	1 - 1000
Cement dust	3 - 100
Metallurgical dust	0.5 - 100
Dust damaging to lungs	0.5 - 5
Oil smoke	0.1 - 1.0
Resin smoke	0.01 - 1.0
Tobacco smoke	0.01 - 1.0
Carbon black	0.01 - 0.3
Pigments (paints)	0.1 - 5
Viruses	0.003 - 0.05
Human hair	35 - 200

## Conversion factors

### **Length**

1 inch = 25.4 mm = 2.54 centimeters  
 1 metre = 100 centimetres = 3.28 ft  
 1 ft = 305 mm = 30.5 centimetres  
 1 ft = 12 Inches

### **Area**

1 square metre = 10.76 square feet  
 1 square foot = 0.0929 square meters

### **Imperial - Metric**

Inches x 25.4 = mm

Feet x 0.3048 = Metres/feet/min x 0.005 =  
Metres/sec

Square feet x 0.0929 = square metres

Cubic feet/min x 0.472 = Litres/sec

Inches water gauge x 249.089 = Pascals  
gauge

CFM x 0.472 = litres per second

### **Metric - Imperial**

mm x 0.0394 = inches

Meters x 3.2808 = feet meters/sec x 197 =  
feet/min

Square meters x 10.764 = square

Litres/sec x 2.1186 = cubic feet/min

Pascals x 0.004 = inches water

$m^3$  hr x 0.588 = CFM



**filterfit**  
engineered filtration solutions

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**We accept**

Cash, bank cheques, EFT.  
Accounts are available to approved  
customers on application.

Your local distributor is: