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Industrial Filtration

Engineered filtration solutions

Filterfit manufactures and provides a wide range of filtration 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
- Preventative maintenance

Industrial dust filtration

- Cartridges: pleated paper and non-wovens
- Dust bags: to suit all types of dust collectors
- Flexible transitions: for all dry powder applications
- Nylons: sieving fabrics
- Milling accessories: sifter pads, balls & brushes
- Filtration hardware: cages, clamps, venturis, gauges
- Laboratory analysis: media testing
- Preventative maintenance: dust collector inspections & reports

Solid liquid separation

- Vessel housing & bags
- Micron-rated monofilament cloths
- Calibrated needlefelts
- Filter cartridges

Through our business units, we manufacture, service and supply all types of chemical, air, dust, liquid filters & systems. Our combined filtration experience of over 50 years will ensure filtration solutions with the best performance.

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Dust collector systems

There are three common types of dust collector systems.
Their names reflect their cleaning style:

Shaker unit
Mechanical cleaning system which physically shakes the bags clean

Pulse jet bag unit
A jet of compressed air is blown down the bags/cartridge, this causes it to bellow and discharge the built-up dust cake

Static unit
Under normal circumstances has no cleaning system, however some cartridge units have manually operated brushes or paddles within the cartridge

Pulse jet cartridge unit
Cleaning mechanism similar to pulse jet bag unit above

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Dust collector systems

Shaker dust collector:

Filter bags can have a hem and be secured at both ends with clamps. They can also be closed at one end and hung from an eyelet or hanging strap. Envelope-style flat bags are also very common, there are many varied designs available.

Dust side of the fabric can be inside or outside depending on the unit.

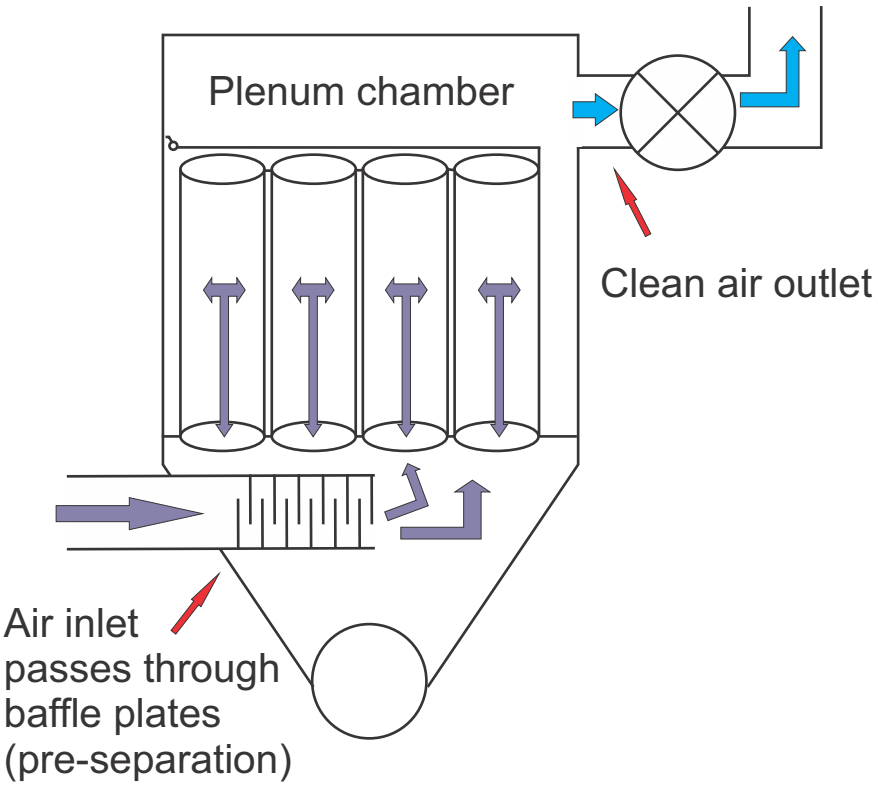
Woven fabric or light grade felts are generally used in a shaker unit.

Shaker unit example:

The air inlet is below the filter bags. The air is sucked through the pre-separation or baffle plates. It then travels up through the filter bags, where a dust cake builds inside. The pressure of the air keeps the bags inflated.

During the cleaning cycle (normally activated by a timer or pressure switch) the bags can collapse, so sometimes supporting rings are sewn into them to facilitate the dust cake dropping through the bag and into the collection hopper below.

Lightweight fabrics (≤410g felt or woven) are used due to the cleaning system because they need to be flexible.



Dust collector systems

Static dust collector:

The static unit is a bulky unit. It is used where there is not too much dust loading or where a cost effective or budget solution is required.

It generally has a low air-to-cloth ratio and uses lightweight felts or woven fabrics.

Static unit example:

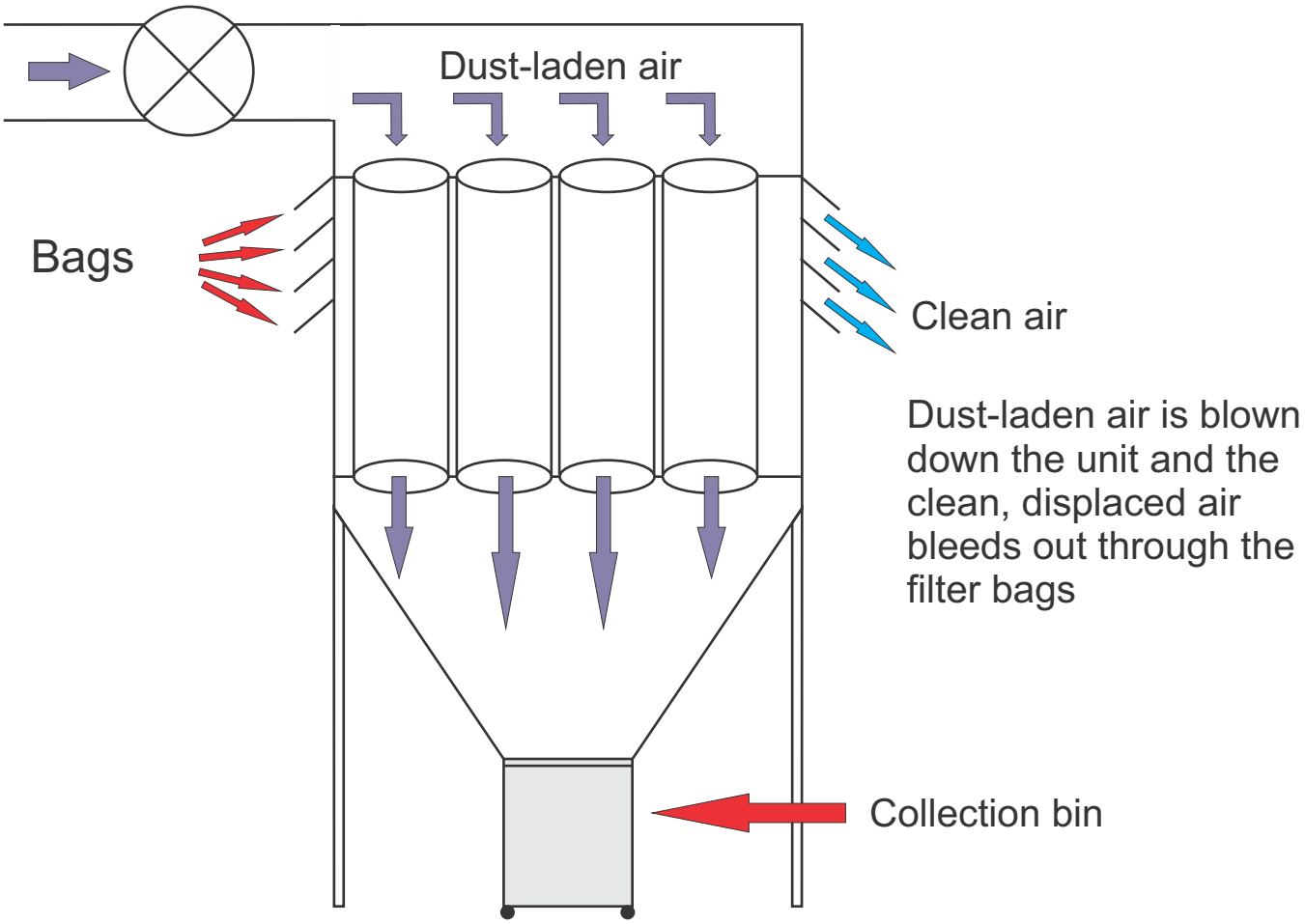
The filter bags are open both ends and have a hem. Bags are usually clamped in place at both ends.

The dirty air is blown down the bags. The clean air is pushed through the bags and then out through louvres on the side of the unit. In some cases, bags are exposed and not contained within a plenum.

The dust side of the fabric is inside.

The dust falls off the bags when the bag house is shut down/turned off, it then falls into a collection bin under the unit.

Bags must be manually cleaned when required.



Dust collector systems

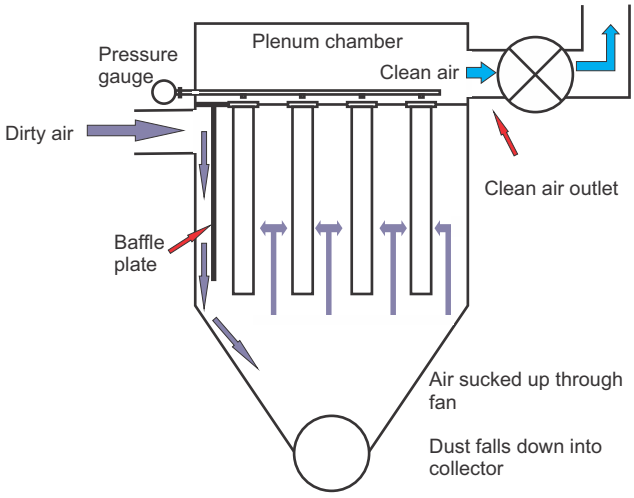
Pulse jet dust collector:

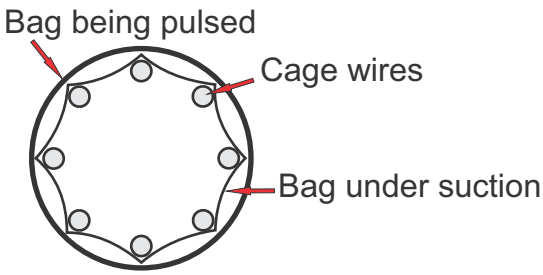
Pulse jets are the most efficient dust collectors due to their cleaning system and are the most common. They are more economical than other dust collectors as they have a high air to cloth ratio.

As greater volumes of air can be handled, it also offers an overall reduction in power consumption. Because the pulse jet is cleaning continuously and quickly, the pressure drop should remain constant and the flow should not change.

All Pulse jet dust collectors require support cages when bags are used. Pleated cartridge style filters are self-supporting and do not require a cage.

The dirty air enters the inlet and is sucked around the baffle plate which provides pre-separation of dust particles. The air then passes through the filter bags, up the support cage, and out into the plenum chamber (plenum refers to the clean air chamber).





In the above drawing, the air flow is from the outside to the inside of the filter bags which are supported on wire cages to prevent them from collapsing. The dust cake which forms on the outside of the bags is dislodged by a pulse of compressed air which is injected into the inside of the bags.

This rapidly expands the bag throwing off the dust cake. The cleaning time is only about 0.2 seconds and the bags are generally not taken off-line during cleaning.

Needlefelts are generally used in Pulse jet units. The most common of these being polyester (PE). Due to suction pressures, a depth filtration fabric is required.

A needlefelt provides filtration in three ways:

1. **Surface filtration**: dust collects on the surface of the bag
2. **Depth filtration**: migration of dust into the fabric
3. **Cake filtration**: as a cake builds up on the surface of the bag: the dust itself becomes part of the filtration process.

Note: 550g/m^2 fabric is the most common weight used in a Pulse jet unit.

Dust collector bags

Filterfit manufactures and supplies dust collector bags in both industry standard and non-standard sizes.

Bags can be fabricated from woven or needlefelt fabrics. These are available in polyester, polypropylene, Nomex, acrylic, nylon, cotton and many others. This enables the correct selection of fabrics to address most process situations such as temperature, chemical attack, sticky or oily deposits or abrasive dusts.

Fabrics can be supplied with different surface treatments or structures to aid in the release of the dust cake and to assist in dealing with the presence of moisture.

The bags can be customised with additions such as hanging loops, eyelets, steel rings, retainer cords, zippers, belts and buckles, wear patches or windows. Any design or shape can be fabricated to suit your particular application.

Micropul/Filtaire/Controlled Environment/Buhler-style bag

Bag to suit Luhr-style machine

Dalamatic-style bag

Bag to suit Mideco-style machine

Snap cuff bag style A

Snap cuff bag style B

Bag to suit Unimaster-style machine

Various custom made dust bags

Glatt-style fluid bed dryer bag

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

Dust collector bags

Part No.	Style	Fabric type	Fabric treatment	Length	Diameter (Nom.)	Weight
9-1101	Mikropul/Filtaire/ Controlled environment	PE needlefelt	Singed finish	1.32m	116/117/118mm	550g/m^2
9-1102	Mikropul/Filtaire/ Controlled environment	PE needlefelt	Singed finish	1.93m	116/117/118mm	550g/m^2
9-1103	Mikropul/Filtaire/ Controlled environment	PE needlefelt	Singed finish	2.54m	116/117/118mm	550g/m^2
9-1104	Mikropul/Filtaire/ Controlled environment	PE needlefelt	Singed finish	3.15m	116/117/118mm	550g/m^2
9-1105	Mikropul/Filtaire/ Controlled environment	PE needlefelt	Singed finish	3.76m	116/117/118mm	550g/m^2
9-1106	Mikropul/Filtaire/ Controlled environment	PE needlefelt	Glazed finish	1.32m	116/117/118mm	550g/m^2
9-1107	Mikropul/Filtaire/ Controlled environment	PE needlefelt	Glazed finish	1.93m	116/117/118mm	550g/m^2
9-1108	Mikropul/Filtaire/ Controlled environment	PE needlefelt	Glazed finish	2.54m	116/117/118mm	550g/m^2
9-1109	Mikropul/Filtaire/ Controlled environment	PE needlefelt	Glazed finish	3.15m	116/117/118mm	550g/m^2
9-1110	Mikropul/Filtaire/ Controlled environment	PE needlefelt	Glazed finish	3.76m	116/117/118mm	550g/m^2
9-1201	Mikropul/Filtaire/ Controlled environment	PE Epi needlefelt	Singed finish antistatic	1.32m	116/117/118mm	550g/m^2
9-1202	Mikropul/Filtaire/ Controlled environment	PE Epi needlefelt	Singed finish antistatic	1.93m	116/117/118mm	550g/m^2
9-1203	Mikropul/Filtaire/ Controlled environment	PE Epi needlefelt	Singed finish antistatic	2.54m	116/117/118mm	550g/m^2
9-1204	Mikropul/Filtaire/ Controlled environment	PE Epi needlefelt	Singed finish antistatic	3.15m	116/117/118mm	550g/m^2
9-1205	Mikropul/Filtaire/ Controlled environment	PE Epi needlefelt	Singed finish antistatic	3.76m	116/117/118mm	550g/m^2
9-1206	Mikropul/Filtaire/ Controlled environment	PE Epi needlefelt	Glazed finish antistatic	1.32m	116/117/118mm	550g/m^2
9-1207	Mikropul/Filtaire/ Controlled environment	PE Epi needlefelt	Glazed finish antistatic	1.93m	116/117/118mm	550g/m^2
9-1208	Mikropul/Filtaire/ Controlled environment	PE Epi needlefelt	Glazed finish antistatic	2.54m	116/117/118mm	550g/m^2
9-1209	Mikropul/Filtaire/ Controlled environment	PE Epi needlefelt	Glazed finish antistatic	3.15m	116/117/118mm	550g/m^2
9-1210	Mikropul/Filtaire/ Controlled environment	PE Epi needlefelt	Glazed finish antistatic	3.76m	116/117/118mm	550g/m^2
9-1401	Mikropul/Filtaire/ Controlled environment	Nomex	Singed finish	1.32m	116/117/118mm	500g/m^2
9-1402	Mikropul/Filtaire/ Controlled environment	Nomex	Singed finish	1.93m	116/117/118mm	500g/m^2
9-1403	Mikropul/Filtaire/ Controlled environment	Nomex	Singed finish	2.54m	116/117/118mm	500g/m^2
9-1404	Mikropul/Filtaire/ Controlled environment	Nomex	Singed finish	3.15m	116/117/118mm	500g/m^2
9-1405	Mikropul/Filtaire/ Controlled environment	Nomex	Singed finish	3.76m	116/117/118mm	500g/m^2

In addition to the bags listed above Filterfit can manufacture dust collector bags in a range of fabrics and sizes to suit your requirements

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Dust collector bags

Part No.	Style	Fabric type	Fabric treatment	Length	Width	Weight
9-2107	Dalamatic	PE needlefelt	Singed finish	0.7m	500mm	550g/m^2
9-2110	Dalamatic	PE needlefelt	Singed finish	1.0m	500mm	550g/m^2
9-2115	Dalamatic	PE needlefelt	Singed finish	1.5m	500mm	550g/m^2
9-2120	Dalamatic	PE needlefelt	Singed finish	2.0m	500mm	550g/m^2
9-2121	Dalamatic	PE needlefelt	Glazed finish	0.7m	500mm	550g/m^2
9-2122	Dalamatic	PE needlefelt	Glazed finish	1.0m	500mm	550g/m^2
9-2123	Dalamatic	PE needlefelt	Glazed finish	1.5m	500mm	550g/m^2
9-2124	Dalamatic	PE needlefelt	Glazed finish	2.0m	500mm	550g/m^2
9-2207	Dalamatic	PE Epi needlefelt	Singed finish antistatic	0.7m	500mm	550g/m^2
9-2210	Dalamatic	PE Epi needlefelt	Singed finish antistatic	1.0m	500mm	550g/m^2
9-2215	Dalamatic	PE Epi needlefelt	Singed finish antistatic	1.5m	500mm	550g/m^2
9-2220	Dalamatic	PE Epi needlefelt	Singed finish antistatic	2.0m	500mm	550g/m^2
9-2221	Dalamatic	PE Epi needlefelt	Glazed finish antistatic	0.7m	500mm	550g/m^2
9-2222	Dalamatic	PE Epi needlefelt	Glazed finish antistatic	1.0m	500mm	550g/m^2
9-2223	Dalamatic	PE Epi needlefelt	Glazed finish antistatic	1.5m	500mm	550g/m^2
9-2224	Dalamatic	PE Epi needlefelt	Glazed finish antistatic	2.0m	500mm	550g/m^2
9-2407	Dalamatic	Nomex	Singed finish	0.7m	500mm	500g/m^2
9-2410	Dalamatic	Nomex	Singed finish	1.0m	500mm	500g/m^2
9-2415	Dalamatic	Nomex	Singed finish	1.5m	500mm	500g/m^2
9-2420	Dalamatic	Nomex	Singed finish	2.0m	500mm	500g/m^2

Part No.	Style	Fabric type	Fabric treatment	Length	Circumference	Weight
9-2510	Luhr	PE needlefelt	Singed finish	1.0m	345mm	550g/m^2
9-2513	Luhr	PE needlefelt	Singed finish	1.3m	345mm	550g/m^2
9-2515	Luhr	PE needlefelt	Singed finish	1.5m	345mm	550g/m^2
9-2520	Luhr	PE needlefelt	Singed finish	2.0m	345mm	550g/m^2
9-2523	Luhr	PE needlefelt	Singed finish	2.3m	345mm	550g/m^2
9-2524	Luhr	PE needlefelt	Glazed finish	1.0m	345mm	550g/m^2
9-2525	Luhr	PE needlefelt	Glazed finish	1.3m	345mm	550g/m^2
9-2526	Luhr	PE needlefelt	Glazed finish	1.5m	345mm	550g/m^2
9-2527	Luhr	PE needlefelt	Glazed finish	2.0m	345mm	550g/m^2
9-2528	Luhr	PE needlefelt	Glazed finish	2.3m	345mm	550g/m^2
9-2610	Luhr	PE Epi needlefelt	Singed finish antistatic	1.0m	345mm	550g/m^2
9-2613	Luhr	PE Epi needlefelt	Singed finish antistatic	1.3m	345mm	550g/m^2
9-2615	Luhr	PE Epi needlefelt	Singed finish antistatic	1.5m	345mm	550g/m^2
9-2620	Luhr	PE Epi needlefelt	Singed finish antistatic	2.0m	345mm	550g/m^2
9-2623	Luhr	PE Epi needlefelt	Singed finish antistatic	2.3m	345mm	550g/m^2
9-2624	Luhr	PE Epi needlefelt	Glazed finish antistatic	1.0m	345mm	550g/m^2
9-2625	Luhr	PE Epi needlefelt	Glazed finish antistatic	1.3m	345mm	550g/m^2
9-2626	Luhr	PE Epi needlefelt	Glazed finish antistatic	1.5m	345mm	550g/m^2
9-2627	Luhr	PE Epi needlefelt	Glazed finish antistatic	2.0m	345mm	550g/m^2
9-2628	Luhr	PE Epi needlefelt	Glazed finish antistatic	2.3m	345mm	550g/m^2
9-2710	Luhr	Nomex	Singed finish	1.0m	345mm	500g/m^2
9-2713	Luhr	Nomex	Singed finish	1.3m	345mm	500g/m^2
9-2715	Luhr	Nomex	Singed finish	1.5m	345mm	500g/m^2
9-2720	Luhr	Nomex	Singed finish	2.0m	345mm	500g/m^2
9-2723	Luhr	Nomex	Singed finish	2.3m	345mm	500g/m^2

In addition to the bags listed above Filterfit can manufacture dust collector bags in a range of fabrics and sizes to suit your requirements

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Dust collector bags

Part No.	Style	Fabric type	Fabric treatment	Pocket width	Pocket depth	Weight
9-3040	Unimaster UMA-40 (9 Pocket)	PE needlefelt	Singed finish	400mm	570mm	410g/m^2
9-3070	Unimaster UMA-70 (12 Pocket)	PE needlefelt	Singed finish	500mm	500mm	410g/m^2
9-3110	Unimaster UMA-100 (18 Pocket)	PE needlefelt	Singed finish	500mm	500mm	410g/m^2
9-3115	Unimaster UMA-150 (18 Pocket)	PE needlefelt	Singed finish	680mm	550mm	410g/m^2
9-3125	Unimaster UMA-250 (29 Pocket)	PE needlefelt	Singed finish	680mm	550mm	410g/m^2
9-3135	Unimaster UMA-350 (2 x14 Pocket)	PE needlefelt	Singed finish	940mm	710mm	410g/m^2
9-3145	Unimaster UMA-450 (2 x 18 Pocket)	PE needlefelt	Singed finish	915mm	710mm	410g/m^2
9-3175	Unimaster UMA-750 (2 x 24 Pocket)	PE needlefelt	Singed finish	1140mm	700mm	410g/m^2
9-3204	Unimaster UMA-40 (9 Pocket)	PE Epi needlefelt	Singed finish antistatic	400mm	570mm	410g/m^2
9-3207	Unimaster UMA-70 (12 Pocket)	PE Epi needlefelt	Singed finish antistatic	500mm	500mm	410g/m^2
9-3210	Unimaster UMA-100 (18 Pocket)	PE Epi needlefelt	Singed finish antistatic	500mm	500mm	410g/m^2
9-3215	Unimaster UMA-150 (18 Pocket)	PE Epi needlefelt	Singed finish antistatic	680mm	550mm	410g/m^2
9-3225	Unimaster UMA-250 (29 Pocket)	PE Epi needlefelt	Singed finish antistatic	680mm	550mm	410g/m^2
9-3235	Unimaster UMA-350 (2 x14 Pocket)	PE Epi needlefelt	Singed finish antistatic	940mm	710mm	410g/m^2
9-3245	Unimaster UMA-450 (2 x 18 Pocket)	PE Epi needlefelt	Singed finish antistatic	915mm	710mm	410g/m^2
9-3275	Unimaster UMA-750 (2 x 24 Pocket)	PE Epi needlefelt	Singed finish antistatic	1140mm	700mm	410g/m^2
9-3304	Unimaster UMA-40 (9 Pocket)	Woven cotton	N/A	400mm	570mm	340g/m^2
9-3307	Unimaster UMA-70 (12 Pocket)	Woven cotton	N/A	500mm	500mm	340g/m^2
9-3310	Unimaster UMA-100 (18 Pocket)	Woven cotton	N/A	500mm	500mm	340g/m^2
9-3315	Unimaster UMA-150 (18 Pocket)	Woven cotton	N/A	680mm	550mm	340g/m^2
9-3325	Unimaster UMA-250 (29 Pocket)	Woven cotton	N/A	680mm	550mm	340g/m^2
9-3335	Unimaster UMA-350 (2 x 14 Pocket)	Woven cotton	N/A	940mm	710mm	340g/m^2
9-3345	Unimaster UMA-450 (2 x 18 Pocket)	Woven cotton	N/A	915mm	710mm	340g/m^2
9-3375	Unimaster UMA-750 (2 x 24 Pocket)	Woven cotton	N/A	1140mm	700mm	340g/m^2

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Dust collector bags

Part No.	Style	Fabric type	Fabric treatment	Pocket width	Pocket depth	Weight
9-3500	Mideco reverse air	PE needlefelt	Singed finish	920mm	1170mm	550g/m^2
9-3505	Mideco reverse air	PE Epi needlefelt	Singed finish antistatic	920mm	1170mm	550g/m^2
9-3510	Mideco reverse air	PE needlefelt	Singed finish	920mm	1170mm	410g/m^2
9-3515	Mideco reverse air	PE Epi needlefelt	Singed finish antistatic	920mm	1170mm	410g/m^2
9-3516	Mideco reverse air	PE needlefelt	Glazed finish	920mm	1170mm	550g/m^2
9-3517	Mideco reverse air	PE Epi needlefelt	Glazed finish antistatic	920mm	1170mm	550g/m^2
9-3520	Mideco shaker	PE needlefelt	Singed finish	910mm	1120mm	550g/m^2
9-3525	Mideco shaker	PE Epi needlefelt	Singed finish antistatic	910mm	1120mm	550g/m^2
9-3530	Mideco shaker	PE needlefelt	Singed finish	910mm	1120mm	410g/m^2
9-3535	Mideco shaker	PE Epi needlefelt	Singed finish antistatic	910mm	1120mm	410g/m^2
9-3540	Mideco economy pulse	PE needlefelt	Singed finish	910mm	1070mm	550g/m^2
9-3545	Mideco economy pulse	PE Epi needlefelt	Singed finish antistatic	910mm	1070mm	550g/m^2
9-3550	Mideco economy pulse	PE needlefelt	Singed finish	910mm	1070mm	550g/m^2
9-3555	Mideco economy pulse	PE Epi needlefelt	Singed finish antistatic	910mm	1070mm	550g/m^2
9-3556	Mideco economy pulse	PE needlefelt	Glazed finish	910mm	1070mm	550g/m^2
9-3557	Mideco economy pulse	PE Epi needlefelt	Glazed finish antistatic	910mm	1070mm	550g/m^2

Part No.	Style	Fabric type	Fabric treatment	Length	Diameter C.P.O. *	Weight
9-8900	Snap cuff	PE needlefelt	Singed finish	0.8m	124mm	550g/m^2
9-8905	Snap cuff	PE needlefelt	Singed finish	1.0m	124mm	550g/m^2
9-8909	Snap cuff	PE needlefelt	Singed finish	1.5m	124mm	550g/m^2
9-8912	Snap cuff	PE needlefelt	Singed finish	2.0m	124mm	550g/m^2
9-8916	Snap cuff	PE needlefelt	Singed finish	2.5m	124mm	550g/m^2
9-8924	Snap cuff	PE needlefelt	Singed finish	3.0m	124mm	550g/m^2

Part No.	Style	Fabric type	Fabric treatment	Length	Diameter C.P.O. *	Weight
9-8928	Snap cuff	PE Epi needlefelt	Singed finish anti-static	0.8m	124mm	550g/m^2
9-8933	Snap cuff	PE Epi needlefelt	Singed finish anti-static	1.0m	124mm	550g/m^2
9-8936	Snap cuff	PE Epi needlefelt	Singed finish anti-static	1.5m	124mm	550g/m^2
9-8940	Snap cuff	PE Epi needlefelt	Singed finish anti-static	2.0m	124mm	550g/m^2
9-8944	Snap cuff	PE Epi needlefelt	Singed finish anti-static	2.5m	124mm	550g/m^2
9-8952	Snap cuff	PE Epi needlefelt	Singed finish anti-static	3.0m	124mm	550g/m^2

Part No.	Style	Fabric type	Fabric treatment	Length	Diameter C.P.O. *	Weight
9-4108	Snap cuff	PE needlefelt	Singed finish	0.8m	135mm	550g/m^2
9-4110	Snap cuff	PE needlefelt	Singed finish	1.0m	135mm	550g/m^2
9-4112	Snap cuff	PE needlefelt	Singed finish	1.2m	135mm	550g/m^2
9-4115	Snap cuff	PE needlefelt	Singed finish	1.5m	135mm	550g/m^2
9-4118	Snap cuff	PE needlefelt	Singed finish	1.8m	135mm	550g/m^2
9-4120	Snap cuff	PE needlefelt	Singed finish	2.0m	135mm	550g/m^2
9-4125	Snap cuff	PE needlefelt	Singed finish	2.5m	135mm	550g/m^2
9-4130	Snap cuff	PE needlefelt	Singed finish	3.0m	135mm	550g/m^2
9-4150	Snap cuff	PE needlefelt	Singed finish	5.0m	135mm	550g/m^2
9-4160	Snap cuff	PE needlefelt	Singed finish	6.0m	135mm	550g/m^2

* C.P.O. = diameter of cell plate opening

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Dust collector bags

Part No.	Style	Fabric type	Fabric treatment	Length	Diameter C.P.O. *	Weight
9-4208	Snap cuff	PE Epi needlefelt	Singed finish anti-static	0.8m	135mm	550g/m^2
9-4210	Snap cuff	PE Epi needlefelt	Singed finish anti-static	1.0m	135mm	550g/m^2
9-4212	Snap cuff	PE Epi needlefelt	Singed finish anti-static	1.2m	135mm	550g/m^2
9-4215	Snap cuff	PE Epi needlefelt	Singed finish anti-static	1.5m	135mm	550g/m^2
9-4218	Snap cuff	PE Epi needlefelt	Singed finish anti-static	1.8m	135mm	550g/m^2
9-4220	Snap cuff	PE Epi needlefelt	Singed finish anti-static	2.0m	135mm	550g/m^2
9-4225	Snap cuff	PE Epi needlefelt	Singed finish anti-static	2.5m	135mm	550g/m^2
9-4230	Snap cuff	PE Epi needlefelt	Singed finish anti-static	3.0m	135mm	550g/m^2
9-4250	Snap cuff	PE Epi needlefelt	Singed finish anti-static	5.0m	135mm	550g/m^2
9-4260	Snap cuff	PE Epi needlefelt	Singed finish anti-static	6.0m	135mm	550g/m^2

Part No.	Style	Fabric type	Fabric treatment	Length	Diameter C.P.O. *	Weight
9-5108	Snap cuff	PE needlefelt	Singed finish	0.8m	158mm	550g/m^2
9-5110	Snap cuff	PE needlefelt	Singed finish	1.0m	158mm	550g/m^2
9-5112	Snap cuff	PE needlefelt	Singed finish	1.2m	158mm	550g/m^2
9-5115	Snap cuff	PE needlefelt	Singed finish	1.5m	158mm	550g/m^2
9-5118	Snap cuff	PE needlefelt	Singed finish	1.8m	158mm	550g/m^2
9-5120	Snap cuff	PE needlefelt	Singed finish	2.0m	158mm	550g/m^2
9-5125	Snap cuff	PE needlefelt	Singed finish	2.5m	158mm	550g/m^2
9-5130	Snap cuff	PE needlefelt	Singed finish	3.0m	158mm	550g/m^2
9-5135	Snap cuff	PE needlefelt	Singed finish	3.5m	158mm	550g/m^2
9-5140	Snap cuff	PE needlefelt	Singed finish	4.0m	158mm	550g/m^2
9-5145	Snap cuff	PE needlefelt	Singed finish	4.5m	158mm	550g/m^2
9-5150	Snap cuff	PE needlefelt	Singed finish	5.0m	158mm	550g/m^2
9-5155	Snap cuff	PE needlefelt	Singed finish	5.5m	158mm	550g/m^2
9-5160	Snap cuff	PE needlefelt	Singed finish	6.0m	158mm	550g/m^2

Part No.	Style	Fabric type	Fabric treatment	Length	Diameter C.P.O. *	Weight
9-5208	Snap cuff	PE Epi needlefelt	Singed finish anti-static	0.8m	158mm	550g/m^2
9-5210	Snap cuff	PE Epi needlefelt	Singed finish anti-static	1.0m	158mm	550g/m^2
9-5212	Snap cuff	PE Epi needlefelt	Singed finish anti-static	1.2m	158mm	550g/m^2
9-5215	Snap cuff	PE Epi needlefelt	Singed finish anti-static	1.5m	158mm	550g/m^2
9-5218	Snap cuff	PE Epi needlefelt	Singed finish anti-static	1.8m	158mm	550g/m^2
9-5220	Snap cuff	PE Epi needlefelt	Singed finish anti-static	2.0m	158mm	550g/m^2
9-5225	Snap cuff	PE Epi needlefelt	Singed finish anti-static	2.5m	158mm	550g/m^2
9-5230	Snap cuff	PE Epi needlefelt	Singed finish anti-static	3.0m	158mm	550g/m^2
9-5235	Snap cuff	PE Epi needlefelt	Singed finish anti-static	3.5m	158mm	550g/m^2
9-5240	Snap cuff	PE Epi needlefelt	Singed finish anti-static	4.0m	158mm	550g/m^2
9-5245	Snap cuff	PE Epi needlefelt	Singed finish anti-static	4.5m	158mm	550g/m^2
9-5250	Snap cuff	PE Epi needlefelt	Singed finish anti-static	5.0m	158mm	550g/m^2
9-5255	Snap cuff	PE Epi needlefelt	Singed finish anti-static	5.5m	158mm	550g/m^2
9-5260	Snap cuff	PE Epi needlefelt	Singed finish anti-static	6.0m	158mm	550g/m^2

* C.P.O. = diameter of cell plate opening

In addition to the bags listed above Filterfit can manufacture dust collector bags in a range of fabrics and sizes to suit your requirements

filterfit
engineered filtration solutions

Dust collector cages

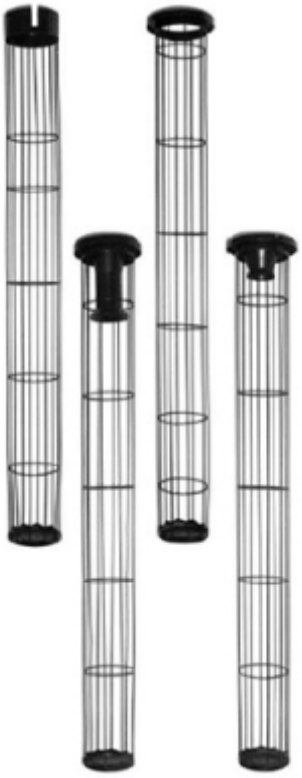
Filterfit provides dust collector filter cages for all types of air filtration systems and dust collector applications.

We offer a wide variety of replacement dust collector filter cages to suit a broad range of filter bag housings. Cages can be manufactured in mild steel, galvanised or stainless steel.

Our dust collector filter cages are carefully fabricated and sized to ensure ease of installation and removal.

Hookey top with support ring

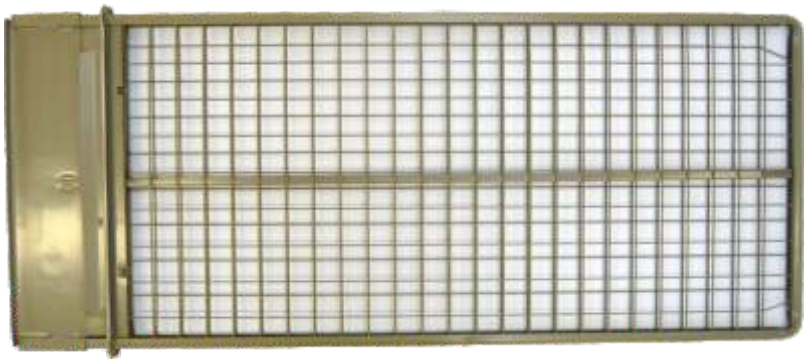
Split top collar



Cage with venturi

Spun top cap

Various styles



Dalamatic-style filter cage

Dust collector cartridges

Filterfit supplies a range of standard replacement dust collector elements to suit most leading brands. We can also design an element to retrofit existing systems.

Common problems such as temperature, chemical attack, submicron dust, sticky or oily deposits can all be handled utilising a broad range of media and design methods.

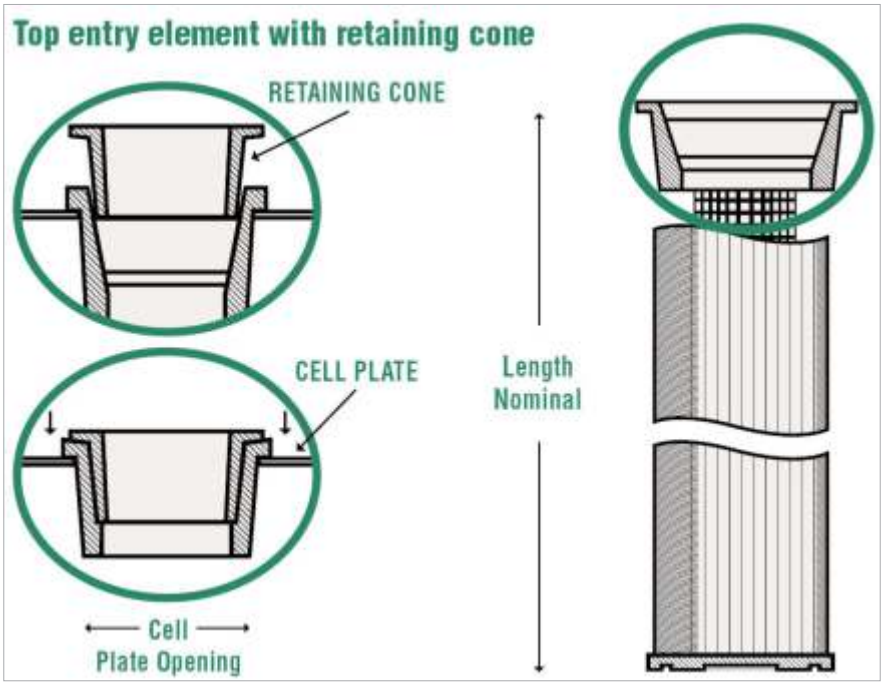
Pleated bag cartridges:

The cloth area of a dust collector can be increased up to three times simply by changing from bag style filters to pleated bag cartridges. Pleated bag cartridges can be designed to retrofit most common brands of dust collector.

The retrofit bag cartridge can be manufactured to suit most cell plate openings and will replace both the filter sock and cage with a single pleated cartridge.

The cartridge is simply snapped into the cell plate opening and held in place with a tapered metal collar (as shown in diagram below).

This retrofit increases surface area and reduces pressure-drop allowing an inexpensive upgrade of an existing dust collector, which in some instances, allows it to cope with extra production.



Dust collector cartridges

Pleated bag cartridges can be manufactured to suit cell plate openings of:

125mm	130mm
135mm	154mm
155mm	156mm
158mm	160mm
162mm	

up to 2 metres in a single length in most cases with longer lengths requiring a threaded join.

Urethane ends can be manufactured using food grade urethane if required.

The standard pleat depth is 15mm, standard number of pleats per cartridge is 52, however differing pleat amounts are available if required.

Advantages of a collector fitted with pleated bag cartridges are:

- Increases surface area
- Reduces emissions to comply with E.P.A. requirements
- Increases the service life of filters
- Reduces the pressure drop in the collector giving greater throughput
- Reduces downtime due to more time-efficient filter changes

The standard filter cartridge is suitable in temperatures up to 80°C.

For higher temperatures, please specify to enable correct selection.

Inlet filter elements

Filterfit supplies a range of inlet filter elements suitable for use with blowers and compressors. We supply industries including cement works, flour mills, food manufacturing, timber mills, plastics, foundries and many more.

The filters are manufactured using materials suitable for use within the environment or application in which they are installed.

Shown below and following next page is a range of available media and standard available sizes. As well as these, non-standard sizes can be manufactured in various configurations including: steel end caps, stainless steel end caps, inner or outer guards, gaskets and pre-filter sleeves to your specification.

In addition, non-standard cartridges can also be manufactured to include any of the media listed below.

- Spun bond polyester with antistatic PTFE laminate and various other treatments
- Polypropylene felt
- Microfibre glass
- Nomex felt and pleatable Nomex
- Dacron
- Woven cotton
- Woven polypropylene
- Woven stainless steel
- Electrostatic media

Speak to any of our sales staff about correct media selection for your application.

Pleated inlet filter elements

Part No.	Model ref.	Media	Size			Capacity (CFM)	Capacity (m3/hr)	Pressure drop (Pa)	Efficiency	Additional pressure drop with pre-filter sleeve fitted (Pa)
			I.D. (mm)	O.D. (mm)	H. (mm)					
16-0000	MF0	PE felt	41	73	40	10	17	125	93-95% @ 5µm	50
16-0001	MF1	PE felt	63	106	89	40	68	125	93-95% @ 5µm	50
16-0002	MF2	PE felt	86	128	89	50	85	125	93-95% @ 5µm	50
16-0003	MF3	PE felt	104	162	141	300	510	125	93-95% @ 5µm	50
16-0004	MF4	PE felt	129	187	167	450	765	125	93-95% @ 5µm	50
16-0005	MF5	PE felt	165	222	197	650	1105	125	93-95% @ 5µm	50
16-0006	MF6	PE felt	190	248	235	900	1530	125	93-95% @ 5µm	50
16-0007	MF7	PE felt	244	343	294	1100	1869	125	93-95% @ 5µm	50
16-0008	MF8	PE felt	269	394	351	1800	3060	125	93-95% @ 5µm	50
16-0010	MF10	PE felt	368	495	492	3000	5100	125	93-95% @ 5µm	50
16-0011	MF10/600	PE felt	368	495	600	3600	6117	125	93-95% @ 5µm	50
16-0012	MF12	PE felt	489	590	467	3600	6120	125	93-95% @ 5µm	50
16-0014	MF14	PE felt	363	740	467	5500	9530	125	93-95% @ 5µm	50
16-0016	MF16	PE felt	636	740	543	7000	11900	125	93-95% @ 5µm	50

Part No.	Model ref.	Media	Size			Capacity (CFM)	Capacity (m3/hr)	Pressure drop (Pa)	Efficiency	Additional pressure drop with pre-filter sleeve fitted (Pa)
			I.D. (mm)	O.D. (mm)	H. (mm)					
16-0101	MF1	foam	63	106	89	40	68	75	86-90% @ 5µm	50
16-0102	MF2	foam	86	128	89	50	85	75	86-90% @ 5µm	50
16-0103	MF3	foam	104	162	141	300	510	75	86-90% @ 5µm	50
16-0104	MF4	foam	129	187	167	450	765	75	86-90% @ 5µm	50
16-0105	MF5	foam	165	222	197	650	1105	75	86-90% @ 5µm	50
16-0106	MF6	foam	190	248	235	900	1530	75	86-90% @ 5µm	50
16-0107	MF7	foam	244	343	294	1100	1869	75	86-90% @ 5µm	50
16-0108	MF8	foam	269	394	351	1800	3060	75	86-90% @ 5µm	50
16-0110	MF10	foam	368	495	492	3000	5100	75	86-90% @ 5µm	50
16-0111	MF10/600	foam	368	495	600	3600	6117	75	86-90% @ 5µm	50
16-0112	MF12	foam	489	590	467	3600	6120	75	86-90% @ 5µm	50
16-0114	MF14	foam	363	740	467	5500	9530	75	86-90% @ 5µm	50
16-0116	MF16	foam	636	740	543	7000	11900	75	86-90% @ 5µm	50

Part No.	Model ref.	Media	Size			Capacity (CFM)	Capacity (m3/hr)	Pressure drop (Pa)	Efficiency	Additional pressure drop with pre-filter sleeve fitted (Pa)
			I.D. (mm)	O.D. (mm)	H. (mm)					
16-0201	MF1	paper	63	106	89	40	68	125	99.96% @ 5µm	50
16-0202	MF2	paper	86	128	89	50	85	125	99.96% @ 5µm	50
16-0203	MF3	paper	104	162	141	300	510	125	99.96% @ 5µm	50
16-0204	MF4	paper	129	187	167	450	765	125	99.96% @ 5µm	50
16-0205	MF5	paper	165	222	197	650	1105	125	99.96% @ 5µm	50
16-0206	MF6	paper	190	248	235	900	1530	125	99.96% @ 5µm	50
16-0207	MF7	paper	244	343	294	1100	1869	125	99.96% @ 5µm	50
16-0208	MF8	paper	269	394	351	1800	3060	125	99.96% @ 5µm	50
16-0210	MF10	paper	368	495	492	3000	5100	125	99.96% @ 5µm	50
16-0211	MF10/600	paper	368	495	600	3600	6117	125	99.96% @ 5µm	50
16-0212	MF12	paper	489	590	467	3600	6120	125	99.96% @ 5µm	50
16-0214	MF14	paper	363	740	467	5500	9530	125	99.96% @ 5µm	50
16-0216	MF16	paper	636	740	543	7000	11900	125	99.96% @ 5µm	50

Part No.	Model ref.	Media	Size			Capacity (CFM)	Capacity (m3/hr)	Pressure drop (Pa)	Efficiency	Additional pressure drop with pre-filter sleeve fitted (Pa)
			I.D. (mm)	O.D. (mm)	H. (mm)					
16-0401	MF1	PE spunbond	63	106	89	40	68	175	98.00% @ 5µm	50
16-0402	MF2	PE spunbond	86	128	89	50	85	175	98.00% @ 5µm	50
16-0403	MF3	PE spunbond	104	162	141	300	510	175	98.00% @ 5µm	50
16-0404	MF4	PE spunbond	129	187	167	450	765	175	98.00% @ 5µm	50
16-0405	MF5	PE spunbond	165	222	197	650	1105	175	98.00% @ 5µm	50
16-0406	MF6	PE spunbond	190	248	235	900	1530	175	98.00% @ 5µm	50
16-0407	MF7	PE spunbond	244	343	294	1100	1869	175	98.00% @ 5µm	50
16-0408	MF8	PE spunbond	269	394	351	1800	3060	175	98.00% @ 5µm	50
16-0410	MF10	PE spunbond	368	495	492	3000	5100	175	98.00% @ 5µm	50
16-0411	MF10/600	PE spunbond	368	495	600	3600	6117	175	98.00% @ 5µm	50
16-0412	MF12	PE spunbond	489	590	467	3600	6120	175	98.00% @ 5µm	50
16-0414	MF14	PE spunbond	363	740	467	5500	9530	175	98.00% @ 5µm	50
16-0416	MF16	PE spunbond	636	740	543	7000	11900	175	98.00% @ 5µm	50

Pleated panels

Filterfit supplies a range of pleated panels for applications including:

- Cabin air
- Refrigeration
- Air conditioning
- Industrial sweepers
- Machine air intakes

The panels are made with a U channel frame of various sizes. Media is selected to suit the application in which it is to be used.

The pleated media pack is held into the U channel frame with a urethane seal ensuring that there is no possibility of air by-pass providing that the panel is correctly installed into its holding frame.

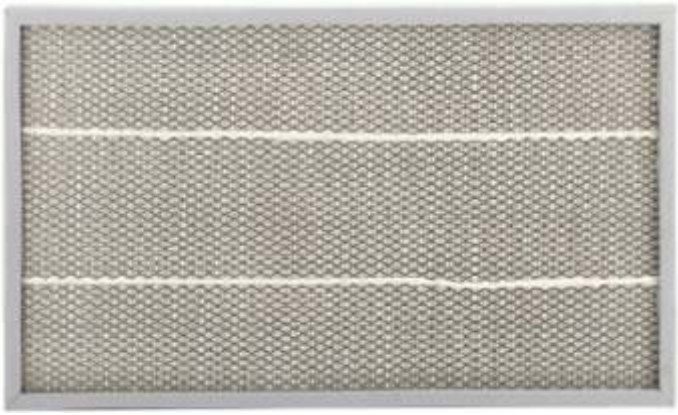
Panels can be manufactured incorporating:

- Aluminium frames
- Steel frames
- Stainless steel frames
- Plastic frames*

Panels are available with or without protective metal guards.

Please speak to one of our sales staff to ensure panels are made to suit your requirements.

* Size restrictions apply

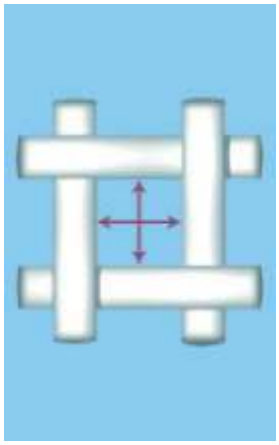


Synthetic meshes

For accurate, high-capacity particle separation, Filterfit suggests precision woven SaatiMil meshes. The SaatiMil line is ideal for the exacting screening and separating procedures used in the food, chemical, pharmaceutical and mining industries.

SaatiMil™

Applications include flour milling, abrasive sifting, chemical classification, pharmaceutical separation, sand sifting, and corn, sugar and rice separation. Throughout the world, SaatiMil screens are known for their high capacity, longevity, perfect fit, and competitive pricing.

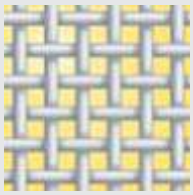
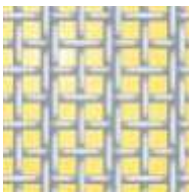


Fabric selection:

SaatiMil fabrics are available in a variety of fibre sizes for a given opening size. A large fibre improves screen life, but decreases screen flow capacity. A smaller fibre will provide greater screening capacity but will wear out faster.

Flour milling fabrics:

The flour milling industry has traditionally used a unique numbering system to denote variations in fibre sizes.

The **SaatiMil XXX** grades have a large fibre size and are used for hard grades of wheat and durum or other abrasive grains.	
The **SaatiMil GG** or **Grit Gauze** grades are woven with coarser opening sizes with a smaller fibre to provide a higher screening capacity.	
SaatiMil HT are high-capacity screens in medium and finer opening sizes. They have a higher tensile strength and better abrasive resistance than the SaatiMil XX grades. They are ideal for the newer type sifting frames, which have glued-on screens requiring high tensile stretching.	
SaatiMil XX fabrics are woven with two smaller diameter fibres adjacent to one another. This construction provides a rougher surface to the screen, which is beneficial when sieving soft wheat, bakery flour, and other products that are difficult to sift.	

SaatiMil meshes are manufactured to international standard ISO 9001

Monofilament woven meshes

Part No.	Description	Mesh opening (micron)	Open area (%)	Mesh count (cm)	Thread diameter (micron)
14-1006	PA 6 XX	212	49	76/81	(90+2x60)/90
14-1008	PA 7 XX	200	48	33/36	(80+2x61)/80
14-1010	PA 8 XX	180	46	36/40	(80+2x61)/70
14-1011	PA 8. 5XX	160	44	39/43	(70+2x61)/70
14-1014	PA 9 XX	150	44	41/48	(70+2x61)/61
14-1016	PA 9.5 XX	140	43	43/50	(61+2x60)/60
14-1018	PA 10 XX	132	44	47/52	(61+2x50)/61
14-1020	PA 10.5 XX	125	40	49/54	(61+2x50)/61
14-1022	PA 11 XX	118	42	50/59	(61+2x50)/50
14-1024	PA 12 XX	112	40	52/62	(61+2x50)/50
14-1026	PA 12.5 XX	106	40	56/64	(61+2x44)/50
14-1028	PA 13 XX	100	38	57/67	(61+2x50)/50
14-1030	PA 14 XX	95	38	61/69	(50+2x44)/50
14-1034	PA 15 XX	85	34	74/97	(50+2x43)/50

Part No.	Description	Mesh opening (micron)	Open area (%)	Mesh count (cm)	Thread diameter (micron)
14-2000	PA 3 XXX	300	46	23	140
14-2002	PA 4 XXX	280	43	24	140
14-2004	PA 5 XXX	255	46	27	120
14-2006	PA 6 XXX	212	40	30	120
14-2008	PA 7 XXX	200	39	31	120
14-2010	PA 8 XXX	180	43	36	100
14-2012	PA 8.5 XXX	160	37	38	100
14-2014	PA 9 XXX	155	39	41	90
14-2016	PA 9.5 XXX	140	36	43	90
14-2018	PA 10 XXX	135	39	46	80
14-2020	PA 10.5 XXX	125	38	49	80
14-2022	PA 11 XXX	115	35	51	80
14-2024	PA 12 XXX	115	37	55	70
14-2026	PA 12.5 XXX	105	32	55	80
14-2028	PA 13 XXX	100	32	57	70
14-2030	PA 14 XXX	90	35	66	61
14-2032	PA 14.5 XXX	90	30	62	70
14-2038	PA 17 XXX	80	32	71	61

Part No.	Description	Mesh opening (micron)	Open area (%)	Mesh count (cm)	Thread diameter (micron)
14-4000	3 HT	300	51	23.5	120
14-4002	4 HT	280	51	25	120
14-4004	5 HT	250	51	28.5	100
14-4006	7 HT	195	43	34	100
14-4008	8 HT	180	43	36	100
14-4010	8.5 HT	160	43	43	80
14-4012	9 HT	150	51	48	61
14-4014	9.5 HT	140	41	45	80
14-4016	10 HT	135	42	49	70
14-4018	10.5 HT	125	41	51	70
14-4020	11 HT	118	41	53	70
14-4022	12 HT	112	42	57.5	61
14-4024	13 HT	100	38	62	61

Monofilament woven meshes

Part No.	Description	Mesh opening (micron)	Open area (%)	Mesh count (cm)	Thread diameter (micron)
14-3000	PA 10 GG	1920	64	4.25	500
14-3002	PA 12 GG	1800	61	4.5	500
14-3004	PA 14 GG	1560	61	5	450
14-3006	PA 15 GG	1450	62	5.5	400
14-3008	PA 16 GG	1320	56	6	400
14-3010	PA 17 GG	1250	56	6.5 x 5.75	400
14-3012	PA 18 GG	1170	55	6.5	400
14-3016	PA 20 GG	1030	57	7.5	325
14-3018	PA 22 GG	950	58	8	300
14-3020	PA 23 GG	900	56	8.3	300
14-3022	PA 24 GG	830	55	9	280
14-3024	PA 26 GG	790	54	9.5	280
14-3026	PA 27 GG	730	55	10.5	250
14-3028	PA 28 GG	700	54	10.75	250
14-3030	PA 30 GG	660	52	11	250
14-3032	PA 31 GG	630	51	11.5	250
14-3034	PA 32 GG	600	50	12	250
14-3036	PA 34 GG	560	51	13	225
14-3038	PA 36 GG	530	49	13.5	225
14-3040	PA 38 GG	500	47	14	225
14-3042	PA 40 GG	475	49	15	195
14-3044	PA 42 GG	440	46	16	195
14-3046	PA 44 GG	420	46	16.5	195
14-3048	PA 45 GG	400	46	17	195
14-3050	PA 47 GG	375	43	18	180
14-3052	PA 48 GG	365	43	18	155
14-3054	PA 50 GG	355	51	20	150
14-3056	PA 52 GG	335	49	21	150
14-3058	PA 54 GG	310	47	22	150
14-3062	PA 58 GG	300	46	23	140
14-3064	PA 60 GG	280	43	24	140
14-3066	PA 62 GG	270	41	24	150
14-3068	PA 64 GG	265	47	26	120
14-3070	PA 66 GG	255	46	27	120
14-3072	PA 68 GG	245	43	27.5	120
14-3074	PA 70 GG	240	44	28	120
14-3076	PA 72 GG	225	42	29	120
14-3078	PA 74 GG	212	40	30	120

Polyester meshes (PES) available upon request in most GG grades

Specialised meshes

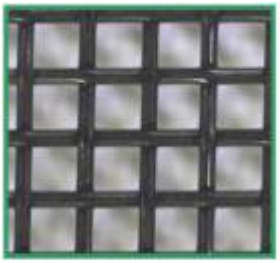
Saatifil® conductive

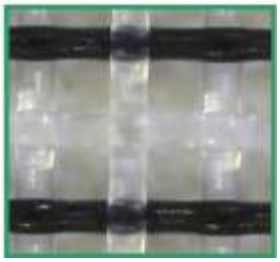
Filterfit can also supply a range of Saatifil specialty meshes for use in screening and separation where static build-up is a problem.

Without affecting the traditional mechanical and surface properties of its fabrics, Saati has combined nylon to carbon suffused nylon conductive fibres, which are able to drain static charges as well as preventing the passage of electromagnetic fields.

Saatifil conductive meshes, thanks to an electrical resistance in the range of $1 \times 10^4\ \Omega \div 1 \times 10^6\ \Omega$ * perfectly conduct static away from sensitive areas and prevent its accumulation.

The conductive product range is the ideal choice for applications requiring high flexibility, good abrasion resistance and electrical conductivity. Saatifil conductive meshes are fabricated to customer's exact specifications in UNI EN ISO 9001 certified facilities.





Characteristics

- Excellent conductivity
- Dissipation of electrostatic charges
- High mechanical strength
- Good abrasion resistance
- F.D.A. approved

Applications

- Sifting
- Electronics
- Design

Several roll widths are available please specify your desired width when placing your order.

Product range

Part No.	Description	Mesh opening (micron)	Open area (%)
14-4105	PA-C 105/40	105	40
14-4120	PA-C 120/42	120	42
14-4127	PA-C 127/50	127	50
14-4160	PA-C 160/44	160	44
14-4205	PA-C 205/40	205	40
14-4245	PA-C 245/45	245	45
14-4280	PA-C 280/44	280	44
14-4308	PA-C 308/49	308	49
14-4402	PA-C 402/38	402	38
14-4510	PA-C 510/45	510	45

(*) Test reference method: DIN 54345 part 5

filterfit engineered filtration solutions

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

Milling accessories

Filterfit has a large range of milling accessories including:

- Felt strip with and without adhesive backing
- Adhesives 2 part or instant
- Sifter pads
- Sifter balls
- Bottom cleaners
- Cotton webbing (various widths)
- Sifter tray rubber inserts
- Spatulas
- Tensiometers
- Full stretching systems
- Sifter sleeves in F.D.A. approved food grade material
- Rotary sifter screens to suit various styles of machine
- Stainless steel bolting cloth

As well as many other items to meet specified requirements:

Cotton sifter pads

First quality cotton cleaner made from densely woven material to create a hard surface. Strong quality threads increase the endurance of the material and life of the cleaner. Part # 14-0001
Second quality also available, softer due to 15% less

Triangular type cleaner with white brushes

Designed for cleaning all types of synthetic mesh material with gentle synthetic brushes. Cleans back-wire with action of metal slider knob. Part # 14-0101

Triangular type cleaner with or without plastic studs

Designed for all meshes 200 micron and up.
Cleans back-wire with action of metal slider knob.
Part # 14-0200 with studs/metal slider knob

Diamond plastic bottom cleaner diamond hole

High elasticity polyurethane provides effective cleaning without damaging sieve frames
Part # 14-0302

Diamond plastic bottom cleaner round hole

High elasticity polyurethane provides effective cleaning without damaging sieve frames
Part # 14-0301

Milling accessories

Light plastic sieve cleaner with metal slider knob in Desmopan

Designed for cleaning all types of meshes. Cleans back-wire with action of metal slider knob. Desmopan plastic is a thermoplastic polyurethane elastomer.

Triangular pan cleaner in Desmopan

High elasticity polyurethane provides effective cleaning without damaging sieve frames. Desmopan plastic is a thermoplastic polyurethane elastomer.
Part # 14-0325

Sifter balls

Polyurethane sifter balls are made of highly elastic F.D.A. material, which does not absorb moisture and is non porous, therefore they are bacteriologically safe and do not accumulate product. Available in a broad range of diameters.

Brush for purifiers

85mm space between guides, tuft mounting frame in plastic, oscillating central body in nylon. Available in synthetic, animal and horsehair.
Available in several sizes. Part numbers next page.

Brushes for break rolls

In whole goose feather.
Available in widths of 500mm, 600mm, 800mm, 1000mm, 1250mm.
Part numbers next page

Flour miller's spatula

In 316 stainless steel
Part # 14-6002

Milling accessories

Part No.	Description
14-0001	Cotton sifter pad (1st quality) with metal stud
14-0002	Cotton sifter pad (2nd quality) with metal stud
14-0100	Triangular type cleaner with black brushes/metal slider knob
14-0101	Triangular type cleaner with white brushes/metal slider knob
14-0200	Triangular type cleaner with plastic studs/metal slider knob
14-0201	Triangular type cleaner with plastic studs/plastic slider knob
14-0205	Triangular type cleaner without studs/metal slider knob
14-0300	Diamond plastic bottom cleaner (solid)
14-0301	Diamond plastic bottom cleaner/round hold
14-0302	Diamond plastic bottom cleaner/diamond hold
14-6002	Spatula
14-0320	Light plastic sieve cleaner (triangular)/metal slider knob in Desmopan
14-0325	Triangular pan cleaner in Desmopan
14-0350	Purifier Brush x 390mm
14-0352	Purifier Brush x 440mm
14-0354	Purifier Brush x 450mm
14-0356	Purifier Brush x 455mm
14-0358	Purifier Brush x 460mm

Part No.	Description
14-0370	Break roller brush 500mm wide
14-0372	Break roller brush 600mm wide
14-0374	Break roller brush 800mm wide
14-0376	Break roller brush 1000mm wide
14-0378	Break roller brush 1250mm wide

Part No.	Description
14-0500	13mm Sifter Ball
14-0502	15mm Sifter Ball
14-0504	20mm Sifter Ball
14-0506	25mm Sifter Ball
14-0508	28mm Sifter Ball
14-0510	35mm Sifter Ball
14-0512	38mm Sifter Ball
14-0514	42mm Sifter Ball
14-0516	50mm Sifter Ball

For more detailed information regarding the above parts, please refer pages 21 & 22

Tension meters

Newman ST-Meter 1-E

Newman ST-Meter 2-E

Newman ST-Meter 1-E and 2-E

Newman ST-Meter is a uniquely constructed, heavy-duty mechanical tension meter that assures durability and long-term accuracy in monitoring screen tension.

It is the only meter in the world with all stainless steel hardened gears, shock-proof industrial grade internal gear movement and all jewelled sapphire bearings. A screen tension meter of exceptional quality, it will last longer and produce consistent readings every time. All other mechanical meters have non-compound softer brass gears and bushing, greatly reducing their shock-resistance, long-term accuracy and life.

The crystal is shatterproof and curved to avoid glare. The heavy-duty protective aluminium housing is the most durable meter made anywhere.

The modular construction assures easy and inexpensive repairs, if necessary.

Milling accessories

Woolfelt strip

Part No.	Length	Width (mm)	Thickness (mm)	Felt grade	Colour	Adhesive backing
14-0400	10m	10	3.2	A	White	Yes
14-0402	10m	12	3.2	A	White	Yes
14-0404	10m	12	1.6	A	White	Yes
14-0406	10m	10	1.6	A	White	Yes
14-0408	10m	10	3.2	A	White	No
14-0410	10m	12	3.2	A	White	No
14-0412	10m	12	1.6	A	White	No
14-0414	10m	10	1.6	A	White	No

Sifter screens

Filterfit can fabricate sifter screens in any shape or size to suit most leading brands of sifting equipment for product applications such as: pigments, flour, maize, sugar, pharmaceuticals, spices and many other sifting requirements. Non-standard screens can be manufactured in accordance to specific needs.

In some instances samples may need to be provided in order for accurate dimensions to be obtained.

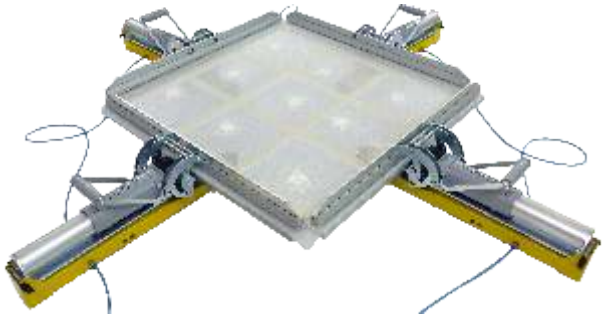
Please consult with your Filterfit representative for more information.

Rotary sifter screen

Purifier cover

Milling accessories

Stretching system



The SAATIMil Top 12 stretching system provides a fast method to stretch milling and screening fabrics to their optimum tension. This highly advanced, yet easy to use system achieves the highest recommended tensions more uniformly, without over-tensioning the corners.

It provides high tension levels and dimensional stability of the screen. Among the most notable features of this premier stretching system is its independent or simultaneous warp/weft tensioning capability, maintaining the perfect geometry of the fabric.

A dedicated control panel allows monodirectional tensioning. In addition this newly designed clamp applies compression to the frame while simultaneously eliminating mesh contact with the frame surface during stretching. This specialized "noncontact" stretching eliminates any hazardous friction, uneven tensioning or resultant tears caused by stretching the mesh when it comes in contact with rough or uneven frame surfaces. Generally only one clamp per side is required due to the extra long jaw length.

This allows to save on the cost of the system and setup time for stretching screens. Clamps are available in three jaw widths. The clamps are very reliable and are easy to maintain. Their long 120 mm stroke per clamp provides 240 mm of total stretch in both directions. The entire body is covered to prevent fingers, clothing, etc. from getting caught in the moving parts.

Technical specifications:

Jaw width	550 mm (21.7') - 650 mm (25,61 - 750 mm (29,5")
Maximum tension	26 N/cm at 7 bar pressure (14.8 lb/in at 100 P.S.I.)
Clamp weight	8.2 kg (18,1 lb)
Piston stroke	120 mm (4.7")
Clamp total length	634 mm (24,9')
Clamp length to contact point with frame	534 mm (21')
Clamp height - working condition	203 mm (7.9")
Clamp height - with open leverage	363 mm (14.3")
Clamp height - height at fabrice	position 151 mm (5.9")
Structure	Panted steel tubular / galvanized steel / protections in ABS / anodized aluminum jaws
Frame support	Adjustable screws according to frame thickness
Colours	Yellow/ grey
Control panel	Pneumatic switches for handling tension / pressure gauge / emergency lock
Compressed air	95-100 P.S.I. (a line with no humidity is required)
Table size	Frame external size + 102 cm in both directions

Milling accessories

Adhesives

Ultrafix product	Mesh count range
Ultrafix SB1	6~71 th/cm
Ultrafix SB2	71~200 th/cm

Ultrafix product	Mesh count range
Ultrafix CA 150	6~77 th/cm
Ultrafix CA 100	77~150 th/cm
Ultrafix CA 50	150~200 th/cm

Ultrafix SB1 & SB2:

Ultrafix SB1 & SB2 are two component polyurethane adhesives designed for mounting screen mesh onto aluminium, steel, iron, plastic-coated and wood frames.

They provide an excellent initial adhesion thus allowing screens to be removed from the stretching system only a few minutes after gluing.

They have a superior resistance to solvents, heat and automatic cleaning machines.

Ultrafix SB1 is a clear, high viscosity adhesive for all fabrics mesh counts.

Ultrafix SB2 is a blue, low viscosity adhesive for all medium to fine fabrics mesh counts.

Ultrafix CA Spray-activated Cyanoacrylate:

SaatiChem's Ultrafix CA adhesives are designed for bonding wire cloth and synthetic screens to wood or metal frames. It cures instantly and is easy to use.

Ultrafix CA Activator
UltraFix CA Activator cures cyanoacrylate adhesive instantly and is available in two types of dispensers: aerosol and pump.

Ultrafix Remover
Ultrafix Remover is a convenient gel which removes Ultrafix adhesives. This gel is effective on urethane-based and cyanoacrylate adhesives.

Ultrafix CA Debonder
Ultrafix CA Debonder removes cyanoacrylate adhesives and is sold with a pump dispenser. The process softens and dissolves Ultrafix CA series as well as C-Flex.

Poly Squeegee (Scrapers)
Poly Squeegee (scrapers) are available in 50mm x 75mm size.

Flexible connector sleeves

Filterfit manufactures and supplies flexible connector sleeves in a range of materials both permeable and impermeable. We supply the dairy, milling, pharmaceutical, food manufacturing industries along with any other industries that have a requirement for product transfer.

Flexible connectors can be square, round, square to round, tapered, be hemmed for attaching with clamps to a spigot or have flaps for a seal between two flanges.

Any shape or size can be made, providing correct dimensions can be supplied. Fabrics can be supplied as FDA approved food grade if required which will inhibit the growth of mould and bacteria.

Some common fabrics and styles

PA66 Stretch:

A woven nylon monofilament material with stretch capabilities.

Especially suitable for vibratory applications such as sifters, blenders, mixing bowls and vibratory sieves.

Maximum operating temperature 90°C.

PP46K:

A heavy woven and calendered durable polypropylene multifilament material for applications where wear and tear can be a problem.

The calendared surface treatment aids in the smooth discharge of powders. Operating temperature 90°C continuous with surges to 110°C (dry)

Flexible connector sleeves




Kevlar:

A tightly-woven aramid material which is used in high temperature and over pressure protection applications, where there is a risk of bursting or explosion.

It can be used on its own or in conjunction with PP46K. Operating temperature up to 260°C.

If used in conjunction with PP46K, operating temperatures will be reduced to 90 - 110°C (refer to PP46K specs previous page).

Many other fabrics and styles are available to suit all applications, please speak to our sales staff to ascertain which suits your needs.

Needlefelt:

The same fabric as used in the manufacture of dust collector bags; needlefelt transitions can be used in situations where abrasion is not an issue, or where the sleeve needs to breathe such as displacement air from between a hopper and bin.

Operating temperature 150°C (dry)


Food grade silicone:

Can be used in applications where a waterproof material is required such as clean in place (C.I.P.) bag houses or wet scrubber applications.

Flexibility of the product makes it suitable for mechanically arduous applications such as sifting or blending.

Operating temperature of 240°C wet or dry. The elasticity of silicone allows it to be stretched over equipment in some cases without the need for retaining clamps to secure it into position.


Flexible connector sleeves

Food grade polyurethane:

With excellent resistance to abrasion, this fabric rejects material build-up while moving granulated materials such as bulk solids, pellets or powders.

Ideal for vibratory or oscillating applications, the fabric is also transparent to allow for visual inspection of moving product.

Maximum temperature 80°C

Plastic-coated terylene:

Sometimes referred to as Herculite, made using a polyester base scrim coated with poly vinyl chloride.

This fabric is highly durable and dimensionally tough, it is ideal for indoor or outdoor use with most non-food grade applications.

It is treated for bacterial growth and is U.V. stabilised.

Temperature range –30 to + 70°C

Flexible transitions in situ

Magnehelic gauges & accessories

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 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.

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

Magnehelic gauges & accessories

Series 2000 Magnehelic

Series 2-5000 Minihelic

Part No.	Description	Size	Range
11-0000	Series 2000 Magnehelic gauge	100mm	0~250Pa
11-0001	Series 2000 Magnehelic gauge	100mm	0~60Pa
11-0002	Series 2000 Magnehelic gauge	100mm	0~125Pa
11-0003	Series 2000 Magnehelic gauge	100mm	0~500Pa
11-0004	Series 2000 Magnehelic gauge	100mm	0~750Pa
11-0005	Series 2000 Magnehelic gauge	100mm	-60Pa~+60Pa
11-0018	Series 2000 Magnehelic gauge	100mm	0~3000Pa (3kPa)
11-0060	Series 2-5000 Minihelic gauge	50mm	0~2000Pa (2kPa)
11-0070	Series 2-5000 Minihelic gauge	50mm	0~2500Pa (2.5kPa)
11-0020	Incline manometers	190/150mm	0~700Pa
11-0100	Red manometer fluid	125ml bottle	
11-0050	Dwyer Mag. gauge installation kit		

Incline manometer

Installation kit

Clamps

Part No.	Size	Construction	Style	Box quantity
11-2000	Misc*	Mild steel	Worm-drive	10
11-2001	Misc*	Stainless steel	Worm-drive	10
11-2010	103 ~127mm	Mild steel	Worm-drive	10
11-2030	103 ~127mm	Stainless steel	Worm-drive	10

Part No.	Size	Construction	Style	Box quantity
11-2100	Misc*	Stainless steel	Quick-release worm-drive	10
11-2102	23 ~70mm	Stainless steel	Quick-release worm-drive	10
11-2104	42~90mm	Stainless steel	Quick-release worm-drive	10
11-2106	51~130mm	Stainless steel	Quick-release worm-drive	10
11-2108	51~176mm	Stainless steel	Quick-release worm-drive	10
11-2110	60~215mm	Stainless steel	Quick-release worm-drive	10
11-2112	60~254mm	Stainless steel	Quick-release worm-drive	10
11-2114	30~311mm	Stainless steel	Quick-release worm-drive	10

* Size to be specified when placing order

Miscellaneous products

Needlefelts

Air slide for pneumatic conveying or fluidising

V-belts

Dust collector components

- Solenoids
- Actuators
- Diaphragm valves
- Diaphragm kits
- Controllers
- Weather cowls
- Ducting

HVAC equipment guide

As well as the industrial filters detailed in this catalogue, Filterfit also manufactures and supplies a full range of HVAC filters for use in general air filtration.

For more detailed information on Filterfit HVAC products, please request our commercial filtration catalogue or refer to our website www.filterfit.com.au

Bulk air filter media rolls

Cut pads

Panel filters

Air filter bags

Mist eliminators

HEPA filters

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Liquid filtration equipment guide

Filterfit manufactures and supplies a range of liquid filter cartridges, bags and housings to suit your requirements.

- Micron-rated monofilament cloths
- Calibrated needlefelts
- Woven multi-filament cloths
- Filter press cloths
- Tie-on filter bags custom made for any application
- Silicone-free vessel bags (on application)
- Aquaculture nets and screens
- Cartridge housing accessories: O-ring seals, cartridge-joiners, brackets, spanners

Pressure vessel housings

Vessel filter bags

Adapter heads

Cartridge housings

Spun bonded and wound liquid filter cartridges

Pleated and in-line filter cartridges

Carbon impregnated and granular filter cartridges

Custom-made liquid filter bags

Filter press cloths

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

Common fabric abbreviations

PE	=	Polyester	NY	=	Nylon
PP	=	Polypropylene	RY	=	Ryton
NO	=	Nomex	P84	=	Polyimide
TF	=	Teflon	PA	=	Polyamide

Some fabric processes

1. **Scouring:** The fabric is passed through a hot water tank and steam chamber. This washes the fabric and induces shrinkage making the fabric shrink resistant in use.

2. **Heat setting:** The fabric is passed over a heated blanket. This relaxes the yarn in the fabric and makes it somewhat dimensionally stable in use. Dimensional stability is important so that fabrics resist changing shape (e.g. stretch) in use.

3. **Singeing:** The fabric is passed quickly over a gas flame, the surface fibres are melted resulting in a hard surface finish which aids cake release. Needlefelts are usually supplied singed as standard.

4. **Calendering:** The fabric is passed over a heated roller under many tonnes of pressure. The fabric surface is melted and smoothed to produce a surface glazed effect. Calendering provides for better cake release and reduces the air permeability of fabric.

5. **Coating:** Some fabrics are coated with A.F. (acrylic foam coating), for use where moisture can be a problem. M.R. (microporous surface) for use with fine dusts. PTFE laminate, for use where fine or sticky dusts cause problems with cake release. All coated fabrics will result in lower permeability.

6. **Foodcote:™** A special surface coating which prevents fibre shedding without having filtration properties (FDA code 177.2260). It can only be applied to Kevlar, PA66STR, PP46K and VE45G

7. **Sparkstop:™** This is a chemical impregnation which, when applied to a fabric, encapsulates the fibres and gives that fabric antistatic properties. It can be utilized in conjunction with Foodcote™

Some fabric processes

Antistatic fabrics:

A build-up of static electricity on the surface of filter media caused by friction between dust particles, can result in electronic discharge causing spark ignition of flammable powders.

To overcome this potentially explosive problem, conductive materials can be incorporated into the structure of the fabric, this inhibits electrostatic build-up and allows a continuous charge dissipation resulting in a filter media that is permanently antistatic.

Antistatic using carbon fibre (epitropic):

Carbon fibre is added to the needlefelt at the blending stages of manufacture. This ensures level distribution of the conductive carbon fibre. Generally 3% or 5% of carbon fibre is used.

Antistatic using stainless steel:

Stainless steel threads are woven into the fabric and pass through at equal distances. The metal threads dissipate build-up of static charge. This is often used in woven fabrics.

Antistatic using carbon impregnation:

Fine carbon particles are impregnated into the whole of the structure of the felt and fixed using special resins which are compatible with most textile materials.

Oleophobic treatment:

A chemical treatment applied to a dust collector bag in order to render the fabric water and oil repellant.

PTFE (Polytetrafluoroethylene):

A membrane added to a needlefelt in order to assist with the discharge of particularly sticky, troublesome or very fine dusts. This process treatment will increase differential pressure and is not suitable for use in some dust collectors without upgrading.

Fibre properties / fabric selection

Fibre	Generic name	Supports combustion	Recommended operating temp (^{0}C)		Melting point (^{0}C)	Chemical resistance		Hydrolysis	Tensile strength	Abrasion resistance
			Continuous dry	Dry surges		Acid	Alkaline			
Cotton	Natural cellulose	Yes	100	110	*	Poor	Excellent	N/A	Good	Fair
Nylon	Polyamide	Yes	110	125	255	Poor	V. good	Good	Excellent	Excellent
Polypropylene	Polyolefin	Yes	90	110	165	Excellent	Excellent	Excellent	Excellent	Good
Polyester	Polyester	Yes	150	180	260	Good	Fair	Poor	Excellent	V. good
Homopolymer Acrylic	Acrylic	Yes	130	150	*	V. good	Fair	Good	Fair	Fair
Teflon	Fluoro-carbon	No	260	280		Excellent	Excellent	Excellent	Fair	Fair
Nomex	Polyaramid	No	200	230	*	Fair	Excellent	Poor	V. good	V. good
Glass	Glass	No	260	300	600	Good	Poor	Excellent	Excellent	V. good
Ryton	Sulphur	No	190	230	285	V. good	Excellent	Excellent	V. good	Good
P84	Polyimide	No	260	280	*	Excellent	Fair	Good	Good	Good

* The fibres do not melt, but decompose at elevated temperatures beyond their maximums

General industry terms

Air to cloth ratio:	Ratio of air as a volume to cloth as an area: (air) m^3/(cloth) m^2/(time)min @ 12.7mm W.G. (water gauge) Example: 45 m^3/m^2/min @ 12.7mm W.G. (12.7mm W.G. is the standard quotable air permeability gauge, 12.7mm W.G. = ½ inch W.G. = 125 Pa)
Surface filtration:	Particles forming a cake on the surface of the filter media.
Depth filtration:	Particles are entrapped within the filter media fibres.
Cake filtration:	As a cake builds up on the surface of the bag: the dust itself becomes part of the filtration process.
Permeability:	The rate at which air/gas passes through a filtration media, expressed as: Imperial = ft^3/ft^2/min Metric = m^3/m^2/min Metric = L/dm^2/min
Dew point:	Dew point refers to moisture in a gas form, e.g. warm air hits a cold surface and forms a dew. Dew point temperatures vary from 25°C to 55°C in normal polyester bag applications. Moisture can rot the filter bags, particularly polyester and Nomex - called hydrolysis.
Hydrolysis:	Hydrolysis is a chemical reaction or process whereby a chemical compound is broken down as a result of a reaction with water.
Oleophobic treatments:	An oleophobic treatment to a fabric will result in its ability to repel water and oil.
Epitropic:	Carbon impregnation of a needlefelt utilized to achieve antistatic properties.
Pressure drop/differential pressure/resistance:	The measurement in air pressure between the dirty and clean air sides of a filter bag. Usually expressed in pascals, inches, W.G. or KPA.
Needlefelt:	A three dimensional material manufactured by way of needling fibres through a woven or spun-bonded base cloth then heat setting to stabilise.
Scrim:	The base cloth of a needlefelt. Can be woven or spun bonded.
Warp:	The threads running length-wise through a woven fabric.
Weft:	The threads running left to right across a woven fabric.

General industry terms

C.P.O: Cell plate opening. Refers to the diameter of the opening in which a dust collector bag or cartridge fits.

Circumference: The measurement around the outside of a filter bag.

Diameter: The measurement across a filter bag assuming its perfect circular state.

Lay flat: The measurement across the width of a circular filter bag, flattened (equal to one half of the circumference).

Snap cuff: A type of filter bag containing a spring steel band within its cuff. This locates and retains the bag into the dust collector unit cell plate and creates a positive seal.

Weight: A method of rating filter cloths, usually expressed as grams per metre squared (g/m^2).

Calculations

25.4mm	=	1 inch
1,000mm	=	1m
0.9144m	=	1 yard
Lay flat ⇒ circumference	=	Lay flat x 2
Circumference ⇒ diameter	=	Circumference ÷ 3.142
Diameter ⇒ circumference	=	Diameter x 3.142

Air permeability conversions

CFM @ ½" W.G. x 0.305	=	m^3/m^2/min @ 12.7mm W.G.
m^3/m^2/min @ 12.7mm W.G. ÷ 0.305	=	CFM @ ½" W.G.
m^3/m^2/min @ 12.7mm W.G. x 3.28	=	CFM @ ½" W.G.
m^3/m^2/min @ 12.7mm W.G. x 15.75	=	L/dm^2/min @ 12.7 W.G.
L/dm^2/min @ 20mm W.G. ÷ 15.75	=	m^3/m^2/min @ 12.7mm W.G.
15.75 ÷ 3.28 (reciprocal of 0.305)	=	4.8
∴ CFM @ ½" W.G. x 4.8	=	L/dm^2/min @ 12.7 20mm W.G.
L/dm^2/min @ 20mm W.G. ÷ 4.8	=	CFM @ ½" W.G.

Particle size table

Substance	Approximate range of particle diameters (microns)
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	13058
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 = 25.4mm = 2.54cm
1m = 100cm = 3.28 ft
1 ft = 305mm = 30.5cm
1 ft = 12 inches

Area
1 square metre = 10.76 square feet
1 square foot = 0.0929 square metres

Imperial - Metric

Inches x 25.4 = mm

Ft/sec x 0.3048 = m/sec

Ft/min x 0.00508 = m/sec

Square feet x 0.0929 = square metres

Cubic feet/min x 0.472 = litres/sec

Inches water gauge x 249.089 = pascals

CFM x 0.472 = litres/sec

Metric - Imperial

mm x 0.0394 = inches

m/sec ÷ 0.3048 = ft/sec

m/sec ÷ 0.00508 = ft/min

Square metres x 10.764 = square feet

Litres/sec x 2.1186 = cubic feet/min

Pascals x 0.004 = inches water gauge

m^3 hr x 0.588 = CFM

Notes

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engineered filtration solutions

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8:30am - 5:00pm

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

Your local distributor is: