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FilterTech
Quality Air Filtration Products
**MEDIA**

General bulk air filtration media and pads.
Available as standard sized rolls or custom sized pads.

**G3 Rated Media**
Low grade quality media, suitable for use in general air conditioning and ventilation, as pre-filtration for high grade filters, and onsite temporary media.

**G4 Rated Media**
Medium grade quality media, designed for use in air conditioning and ventilation applications, for use in extended area filters and is suitable for residential, commercial or industrial areas.

**F5 Rated Media**
Superior quality media, designed for the removal of sub-micron particles and to provide long service life in extended area filter configurations. It is suitable for some laboratories as well as residential and commercial buildings.

**Downdraft Spray Booth Media**
F5 Rating.
Ceiling diffusion media for paint spray booths. Media fibres are impregnated with tackifier, and polyester netting on the air leaving side to obtain optimum efficiency.

**PRE-FILTERS**

Fixed panel, dry arrestance type filter that prevents dust and particulates from entering an enclosed space. Suited to non-critical applications such as small air conditioning and ventilation systems or as a pre-filter to extend the life of a secondary filter. Available in standard and non-standard sizes.

**Washable / Disposable Panel Filters**
G3, G4 Rating.
Easily made-up in banks or with the F type holding frame. 8-10mm WD Panel Filter has an all aluminium frame with the filter media being held in place with a plastic spline that is imbedded into a slot in the frame. 20-25mm WD Panel Filter has a rugged galvanised steel frame that encloses the filter media between two pieces of galvanised mesh. The corners are mitred and the frame is secured with pop rivets. An aluminium framed version is also offered.

**Washable / Disposable SP Gate Filters**
G4 Rating.
May be assembled in a filter bank with pop rivets or by using nuts and bolts. Designed for retaining air filter media pads in applications that require additional media support and offer quick, easy and economical replacement of the filter media pad when required. Fabricated from galvanised steel frame channel with each corner mitred for squareness and is available in 20mm, 25mm or 50mm deep configurations.

**PRE-FILTERS**

Fixed panel, dry pleated panel filter with metal frame that prevents dust and particulates from entering an enclosed space. Suited to non-critical applications such as small air conditioning and ventilation systems incl. packaged air conditioners for office and computer room applications or as a pre-filter to extend the life of a secondary filter. Nominal 50mm or 100mm thickness. Washable or disposable. Available in standard and non-standard sizes.

**V-Form Extended Surface Panel Filters**
G4 Rating.
Can be installed in universal holding frames, side access applications or similar existing hardware. Available with either 13mm galvanised mesh each side of the filter media or steel cage supports. Corners are mitred and the frame is secured with pop rivets.

**Pure-V Extended Surface Panel Filters**
G4 Rating (EN779:2002).
Filter is 100% hot-melt sealed into the outer frame for superior quality filter efficiency, eliminating air and contaminant bypass. Solid aluminium frame and rigid self-supporting V-form media for extraordinary durability and strength, holding its shape without the need of a metal cage or wire support. Consistent pleat arrangement for increased filter efficiency, resistance, durability and strength. 40% more pleats per filter compared to “other” standard panel filters for greater surface area over pressure drop, greater dust / contaminant holding capacity and longer filter life.
Pleated panel filter that prevents dust and particulates from entering an enclosed space. Compact and economical, offering low operating cost with high efficiency and dust holding in small air conditioning and ventilation applications. Suitable for variable air volume systems. Suited to most non-critical applications such as heating, air conditioning or ventilation systems or as a pre-filter to extend the life of a secondary filter.

SuperPleat Extruded Aluminium Framed V-Pleat Panel Filters
G4 Rating
Filter is sealed into the outer frame for superior quality filter efficiency, eliminating air and contaminant bypass. Pressed aluminium frame and rigid self-supporting V-form media for extraordinary durability and strength, holding its shape without the need of a metal cage or wire support. Consistent pleat arrangement for increased filter efficiency, resistance, durability and strength.

AirePleat High Capacity Pleated Panel Filters
G4, F5, F6 Rating.
High capacity, cardboard-framed, pleated panel filter. 100% synthetic Kimberly-Clark INTREPID® 355H Pleat Filtration Media will not absorb moisture or support microbial growth. Media has lower initial pressure drop compared to cotton-polyester media for increased energy savings during use. Media maximising V-Pleat design for high efficiency and dust-holding capacity. Expanded metal grid prevents noisy media flutter while in operation. Diagonal and horizontal frame support. Moisture resistant beverage cardboard frame. Nominal 25mm, 50mm, 100mm depths. Can easily upgrade existing flat panel or V-Form filters currently being used with little or in some circumstances less static pressure.

Deep bed dry media filter offers high efficiency and exceptional dust holding capacity for a long duty cycle. Suited to non-critical applications such as general purpose filtration applications in industrial and commercial applications, or as a pre-filter to extend the life of a secondary filter. Filter media manufactured from bonded synthetic fibres. Media is moisture and fungus resistant and will not shed fibres into the clean air stream.

DuoPak Deep Bed Air Filters
F5 Rating.
Standard mounting frames consist of an outer frame and incorporates an integral “V”clip to retain the filter. Easily changed out of frame.

FourPak Deep Bed Air Filters
G4, F5, F7 Rating.
F7 media has an additional filter section added which is constructed of electrostatically charged polypropylene media. Standard mounting frames consist of an outer frame and inner basket. Easily changed out of basket. Available as full size or half size.

AireCube / AireCone Generic Deep Bed Air Filters
F5, F7 Rating.
F7 media has an additional filter section added which is constructed of electrostatically charged polypropylene media. Standard mounting frames consist of an outer frame and inner basket. Easily changed out of basket. Available as full size or half size. Economical version consists of a galvanised outer frame and MultiPak bag with wire arrangement.

AirePak Extended Surface Multi Pocket Filters
F5, F6, F7, F8, F9 Rating.
Compact and economical extended surface multi-pocketed filter offers high efficiency at a minimal resistance to airflow, with effective removal of submicron particles. Suited for use in commercial or industrial HVAC systems where medium to high efficiency is required. Can withstand rigours of turbulent airflow and remove contaminants such as smoke, bacteria, fumes, fungi and virus-bearing droplet nuclei. Constructed from an exclusive blend of electrostatically enhanced synthetic microfibres that are moisture resistant and will not support microbial growth. Sonically sealed pockets provide max. strength and a leak free seal. Aerodynamic channels inside pockets ensure proper inflation of pockets to maximise media. Can be installed in “F” series holding frames, side access applications and similar existing hardware. Available in standard sizes and pocket configurations.
## Medium Efficiency Rigid Filters

Extended surface separator type rigid filters suited for use in commercial or industrial HVAC systems where medium to high efficiency is required.

Can withstand rigours of turbulent airflow and remove contaminants such as smoke, bacteria, fumes, fungi and virus-bearing droplet nuclei.

**PureCell Extended Surface Separator Type Rigid Filters**  
F6, F8 Rating.  
Constructed from micro-fine fibreglass pleated paper media that is moisture resistant and will not support microbial growth. Designed to suit variable air volume systems, corrugated aluminium separators stabilise the moisture resistant media and prevent damage in applications downstream of the supply fan.  
Available in two header styles; the single header or double header. Models for gas turbine or high temperature applications are available.

**PureCell II Extended Surface Mini-Pleat Rigid Filters**  
F6, F7, F8 Rating.  
Constructed from double-wall beverage board frames and water-laid micro-fine fibreglass media that is water-repellent, moisture resistant and will not support microbial growth. Designed to suit variable air volume systems or turbulent flow conditions. Slim-line, 100mm depth and lightweight cartridge design is flexible for any installation and easy to store and handle. Available as full size or half size.

**PurePak Extended Surface Synthetic Media Rigid Filters**  
F6, F7, F8 Rating.  
Constructed from an exclusive blend of electrostatically enhanced synthetic microfibres that are moisture resistant and will not support microbial growth. Designed to suit variable air volume systems. Synthetic media is held in position by upstream and downstream pleat supports. Rugged, corrosion-resistant steel casing minimises damage during shipping and handling. Available in standard box frame or single header models.

**AireFlow-V Extended Surface Mini-Pleat Filters**  
F6, F7, F8, F9, 95% DOP H10 efficiency (MERV 11-16 rating as per ASHRAE 52.2)  
Filter manufactured from moisture resistant micro glass fibre media. Highly resistant to moisture in high humidity environments and operates in 100% relative humidity. Mini-pleat media packs assembled into a series of V-banks and bonded to an ABS frame casing. Corrosion and moisture resistant, high dust holding capacity, 18m² of effective media area. Extremely low initial pressure drop.

## Metal Filters

### Metal Washable Air Grease Filters

Frames include drain holes. Available in standard sizes.

**Honeycomb Grease Filters for Cooking Exhaust Systems**  
Lightweight, washable, acid resistant aluminium panel filter designed for use in cooking exhaust systems.

**Mist Eliminator Moisture / Oil Separator**  
Lightweight, metal mesh filter highly effective in significantly reducing oil mist, water mist, fog or droplets from outside air or recirculated air.
Removes a large array of odours and vapours such as diesel and petrochemical fumes, hydrocarbons and VOC’s (Volatile Organic Compounds). Suitable for commercial or industrial applications with odour and vapour problems.

AirePleat CC Activated Carbon Pleated Filter
Cardboard framed activated carbon pleated panel filter that prevents dust and particulates from entering an enclosed space and removes odours and vapours.
Suitable for commercial or industrial applications with minor odour and vapour problems.
Matrix of densely packed activated carbon media granules, bonded between fibres of two non-woven synthetic layers of filtration media. Efficient particulate removal with minimal airflow resistance. Expanded metal grid prevents media flutter while in operation.
Beverage cardboard frame. Moisture resistant and disposable.
Available in standard and non-standard cut down sizes.

AireFlow CC High Capacity Extended Surface Mini-Pleat Carbon Filter
Compact, rigid, extended surface, activated carbon, mini-pleat filter that provides enhanced indoor air quality with odour and vapour removing capabilities through combined particle and gas filtration.
Suitable for commercial or industrial HVAC systems where effective gaseous containment, odour control and high velocities are a requirement.
Typical applications include industrial and food processing plants, hospitals, research facilities, airports, loading docks.
Consists of eight activated carbon pleated filter media packs, mounted into V-bank plastic frame.
High carbon adsorption with low pressure drop.
Multi-directional airflow and installation position.

Bonded Activated Carbon Panel Filters
Disposable bonded activated carbon panel filter assembled with galvanised steel frames.
Removes a large array of VOC’s (Volatile Organic Compounds) and odours and vapours.
Common applications include HVAC systems, odour control, corrosion control, diesel fumes, manufacturing processes, chemical processing, pulp and paper manufacture.
Disposable panels designed to be used in existing housings.
Economical, easy to remove and replace.
No opportunity for media settling and channelling which can lead to VOC and odour bypass.

F Series Holding Frames are used to hold HVAC filters individually or to construct filter bank arrangements for upstream or downstream access.

F Series Holding Frames for HVAC Air Filters
Standard frames are constructed from 16 gauge galvanised steel and may be assembled with pop rivets or by using nuts and bolts.
Standard frame sizes are available in 75mm, 125mm or 175mm depths.
Stainless steel and powder coated frames are available options and special sizes are available on request.
May be used with WD Panel Filters, SP Gate Filters, V-Form Panel Filters, Pure-V Panel Filters, AirePleat Panel Filters, AirePak Multi-Pocket Filters, PurePak Synthetic Media Rigid Filters, PureCell Separator Type Rigid Filters, PureCell II Mini-Pleat Rigid Filters, Honeycomb metal washable filters, and AirePleat-AC Activated Carbon Pleated Filters.

A variety of filter clips are available for use with the F Series Frames

P Clips and Corner Clips
Filter clips are selected for use with holding frames to meet the requirements of the specified filters.
Clips do not require the use of specialised tools to secure the filters.
P Clips are made from 0.105mm diameter, galvanized hard drawn MB basic wire and attached to an integral stainless steel bracket.
Corner Clips are made from 0.080mm diameter - type 302 stainless steel spring wire.

A range of filter accessories are available.

Magnehelic Gauges
Magnehelic® Gauges monitor filter pressure drops in a range of applications. The Magnehelic® is the industry standard to measure fan and blower pressures, filter resistance, air velocity, furnace draft, pressure drop across orifice plates, liquid levels with bubbler systems and pressures in fluid amplifier or fluidic systems. It also checks gas-air ratio controls and automatic valves, and monitors blood and respiratory pressures in medical care equipment.
Manufactured from the highest quality materials under strict quality control conditions, and certified to ensure performance and leak-free operation under the most critical of conditions. Moisture resistant micro glass fibre media, which is highly resistant to moisture in high humidity environments. Individually tested and certified to meet the customer's requirements for resistance and efficiency. Standard and non-standard sizes. Typical applications include, medical facilities, universities, pharmaceutical manufacturing, research facilities, food and dairy processing facilities and in any application where ultra-clean air is a requirement.

AireCell 95 95% DOP Standard Capacity Filters
95% DOP (min 95%@0.30µm)
Designed to provide a higher efficiency than standard “F” rated particulate filters where HEPA filtration is not a requirement.
Box style design.

AirePanel Mini-Pleat Standard & Gel Seal HEPA/ULPA Filters
99.99%@0.30µm efficiency
99.9995%@0.12µm efficiency
Designed to meet the needs of critical applications where human life is often at risk and HEPA filtration is required. Upstream & downstream faceguard screens.
Fluid seal limits the possibility of air bypass. Final Filter Integrity test carried out by a NATA registered laboratory.

AireCell Standard Capacity Gasket & Fluid Seal HEPA / ULPA Filters
99.99%@0.30µm efficiency
99.9995%@0.12µm efficiency
Designed to meet the needs of critical applications where human life is often at risk and HEPA filtration is required. Upstream & downstream faceguard screens.
Gasket or fluid seal limits the possibility of air bypass. Final Filter Integrity test carried out by a NATA registered laboratory.

AireCell HC High Capacity Gasket Seal HEPA / ULPA Filters
99.99%@0.30µm efficiency
99.9995%@0.12µm efficiency
Designed to meet the needs of critical applications where human life is often at risk and HEPA filtration is required. Designed to operate at temperatures up to 260°C, glass fibre HEPA media, high temperature silicone sealant rated for continuous service up to 260°C
Final Filter Integrity test carried out by a NATA registered laboratory.

AireFlow HC High Velocity HEPA / ULPA Filters
99.99%@0.30µm efficiency
99.9995%@0.12µm efficiency
Designed to meet the needs of critical applications where human life is often at risk and HEPA filtration is required. Designed for high airflow applications requiring HEPA efficiency at a low initial pressure drop. Glass fibre HEPA media, high temperature, silicone moisture resistant, micro glass fibre media, which is highly resistant to moisture in high humidity environments. Final Filter Integrity test carried out by a NATA registered laboratory.
Terminal HEPA housings and frames designed for use with various HEPA / ULPA type filters of 99.99%@0.30µm efficiency and 99.9995%@0.12µm efficiency

CS HEPA Gel Sealed Ducted Terminal HEPA-ULPA Module
CS (Channel Seal) terminal ceiling HEPA filter module for pharmaceutical and biotechnology facilities, or for any other facility requiring clean-room level air filtration.

Designed so that HEPA filters can be replaced and tested without disturbing the module housing.

Gel-seal design offers superior protection against bypass leakage.

40mm “Turned-up” edge provides superior sealing against varying ceiling types.

Includes a static pressure port for evaluating HEPA filter pressure drop, or sampling of the upstream aerosol concentration during filter scan testing.

Optional swirl diffuser and/or butterfly damper.

CST HEPA Room-side Replaceable HEPA-ULPA Module
CST (Ceiling Suspension Type) room-side replaceable terminal HEPA filter hood module is ideal for pharmaceutical and biotech cleanrooms, or wherever hoods are regularly validated for performance and leak-free operation. May be installed in a variety of ceiling types, including tee-bar ceilings and plaster ceilings.

Allows access to the filters from room-side, without disturbance to the installed housing. Bottom-loading filters along with the unique tool-less installation procedure make filter change-out quick and easy. Gel-seal design offers superior protection against bypass leakage. HEPA and ULPA Filter media are manufactured from moisture resistant non-woven glass micro fibres.

GSM HEPA Gasket Seal Ducted Terminal HEPA-ULPA Module
GSM (Gasket Seal Module) terminal ceiling HEPA filter module for pharmaceutical and biotechnology facilities, or for any other facility requiring clean-room level air filtration.

Designed so that HEPA filters can be replaced and tested without disturbing the module housing.

Gasket-seal design offers superior protection against bypass leakage.

40mm “Turned-up” edge provides superior sealing against varying ceiling types. Includes a static pressure port for evaluating HEPA filter pressure drop, or sampling of the upstream aerosol concentration during filter scan testing.

TST HEPA Disposable HEPA-ULPA Module
TST (T-Bar Suspension Type) disposable ducted HEPA/ULPA module with mini pleat filter pack is a terminal filter hood for pharmaceutical and biotech cleanrooms, or wherever hoods are regularly validated for performance and leak-free operation. Typically installed into tee-bar ceilings. Operate at velocities of 0.51m/sec, ideal for laminar or non-laminar flow applications in gasketed tee-bar systems. HEPA and ULPA Filter media are manufactured from moisture resistant, non-woven, glass micro-fibres.

Fully disposable. Available in standard and non-standard sizes.

AC1 HEPA Holding Frame
Used to hold AireCell 95, AireFlow-HC and AireCell series of HEPA filters that are fitted with gasket seals. Designed for permanently installing HEPA filters in the field and can be used to hold filters individually, or used in multiple filter bank arrangements.

Typical applications include, medical facilities, universities, pharmaceutical manufacturing, research facilities, food and dairy processing facilities and in any application where a permanent HEPA holding frame is required. Constructed of fully welded 2mm galvabond steel. Factory-drilled alignment holes on each side facilitate positioning of the frames for installation into multiple banks. Stainless steel removable locking arms and screw assemblies (4 off) are supplied with each frame.

Once installed these are easily adjusted to hold the filter in place and provide the necessary pressure to eliminate any leaks or bypass associated with the gasket-frame interface. Can be installed in either the air entering (upstream) side or the air leaving (downstream) side.