

## SPERIFILT 6/65 F5 MEDIA

### Downdraft Spray Booth Media

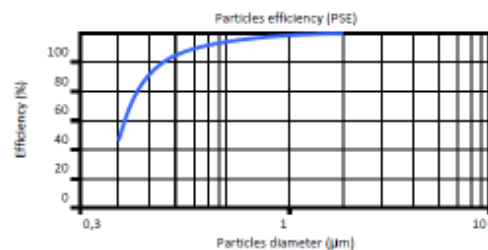
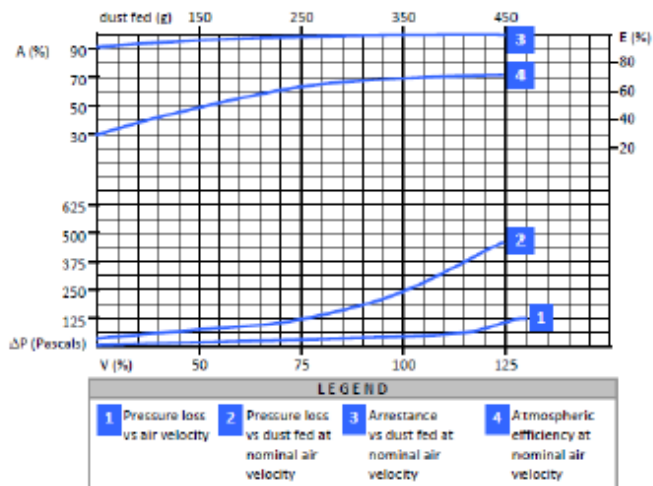
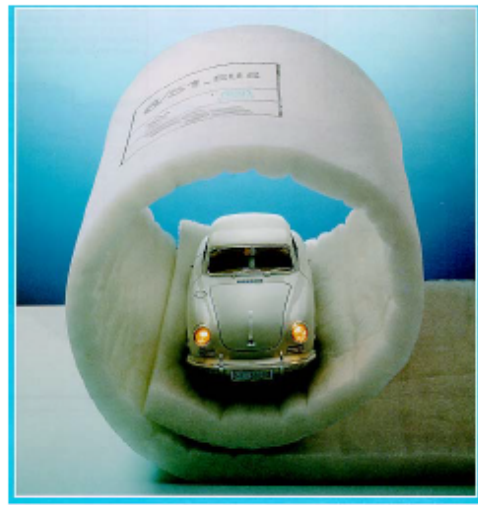
#### General

Speritex ceiling diffusion media is available in a range of standard sized rolls and custom sized pads. Manufactured in Italy, Speritex media is used as an OEM diffusion pad in many Italian spraybooths such as Blowtherm, Nova Verta, CMC, Saima and others. Speritex media has proven to be the highest quality diffusion media available today. As the quality of paint spraybooths and painting techniques have progressed over the years, so has the quality of Speritex media.

The Sperifilt 6/65 media has progressively denser fibres as they approach the downstream side. All fibres of this media are totally impregnated with tackifier, and it has polyester netting on the air leaving side to obtain optimum efficiency.

#### Technical Data Sheet

Initial pressure loss	25Pa
Final pressure loss	450Pa
Average arrestance	99%
Average atmospheric efficiency	56%
Dust holding capacity	428g/m <sup>2</sup>
Thickness	24mm
Media area	1.0m <sup>2</sup>
Rated air flow	900m <sup>3</sup> /hr
Max temperature allowed (peaks)	100°C
Air velocity at test	0.25m/sec
Efficiency class according to DIN EN 779	F5
Fire resistance (DIN 53438)	F1



Airepure Australia Pty Ltd

A.B.N. 16 085 671 129

Email: [info@airepure.com.au](mailto:info@airepure.com.au)

Web: [www.airepure.com.au](http://www.airepure.com.au)

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Ph: 08 9259 7777

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australia

## BULK MEDIA & PADS

### General Air Filtration Media

#### General

Airepure's range of bulk filter media is available as standard sized rolls or custom sized pads to suit a wide range of air filtration applications. Manufactured from thermally bonded polyester fibre with a minimum of 80% recycled fibre content from post-consumer PET packaging, this range of media is 100% recyclable.

Each media has been designed to meet specific performance criteria and service life in a variety of filter configurations:

#### G2 Media

G2 is a low grade quality media, suitable for use in room or window type air conditioners and general coarse pre-filtration applications.

#### G3 Media

G3 is a 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 Media

G4 is a 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. This product has undergone rigorous testing and has accreditation in according to ASHRAE 52.2, issued by RTI International - USA.

#### F5 Media

F5 is a superior quality media, designed for the removal of submicron 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. This product has undergone rigorous testing and has accreditation in according to ASHRAE 52.2, issued by RTI International - USA.

G3 Media Roll



G4 Media Roll



#### Technical Data Sheet

Melting point:	N/A
Vapour pressure:	N/A
Volatiles:	Nil VOC (Volatile Organic Components)
Specific gravity:	1.38
Flash point:	None allocated
Other properties:	Non-allergenic, low irritant, low flame response, resilient
Ingredients:	Organic, long chain synthetic polymer
Max service temp:	150°C
Alkalinity:	pH 7.8 (pH 7 -neutral)
Moisture absorption:	Exposure to an atmosphere of 50°C & 95% for four days gives moisture absorption of less than 0.2% by volume.

Product Code	Media Rating	Size of Roll (mtr)	Colour	Loft (mm)	Washability
220100	G2	2.00 x 40mtr	White	10mm	Disposable
220150	G3	2.10 x 40mtr	Grey	15-18mm	Washable
220160	G3	2.10 x 30mtr	White	15-18mm	Disposable
220210	G3	2.10 x 20mtr	Blue	15-18mm	Washable
220240	G4	2.10 x 20mtr	White	15-18mm	Disposable
220300	F5	2.10 x 20mtr	White	18-20mm	Disposable

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# Lyons Airconditioning Service (WA)

## Filter Selections

### 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.

#### Sperifelt 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.

### PREFILTERS

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 medium 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 medium 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.

### PREFILTERS

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 medium 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.



# Lyons Airconditioning Service (WA)

## Filter Selections

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. Operating face velocity ranges are from 0 to 2.54 m/sec face velocity. 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. Disposable.

### PREFILTERS

#### 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.



#### Service Pleat Filter Inserts

G4, F5 Rating.

Replaceable pleated filter inserts with a metal backing designed to fit reusable universal "U" channel holding frames. Expanded metal grid prevents media flutter while in operation. Nominal 50mm or 100mm thickness.

Available in standard sizes and continuous 200 element pleats.



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.

### EXTENDED SURFACE BAG FILTERS

#### 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.



#### MultiPak 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, 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.



# Lyons Airconditioning Service (WA)

## Filter Selections

### 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.



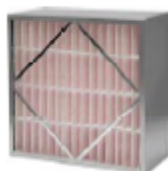
#### PureCell II Extended Surface Mini-Pleat Rigid Filters

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, 18m<sup>2</sup> of effective media area. Extremely low initial pressure drop.



#### AP Sea Salt Particle Arrestance Filters

Reduces over 90% of sea salt particles. Sea salt particle arrestance filter designed to increase the life of equipment by reducing the effects of corrosion due to salt. Used in make-up and return AHU applications in facilities located near oceans and in food processing applications. Sturdy, polypropylene separator design. Plywood frame. Glass fibre media. 100% maximum peak relative humidity at 0 Condensation. 60° Celsius maximum continuous operation temperature.

### GASEOUS FILTRATION

Removes a large array of VOC's (Volatile Organic Compounds) and odours and vapours. Suitable for commercial or industrial applications with odour and vapour problems.



#### AirePleat AC Activated Carbon 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.

Expanded metal grid prevents noisy media flutter while in operation.

Beverage cardboard frame. Moisture resistant and disposable.

Available in standard and non-standard cut down sizes.



#### 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.

# Lyons Airconditioning Service (WA)

Filter Selections

Metal washable air grease filters.  
Frames include drain holes. Available in standard sizes

## METAL FILTERS

### 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.



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

## HOLDING FRAMES

### 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

## FILTER CLIPS

### 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.

## ACCESSORIES

### 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.





# Lyons Airconditioning Service (WA)

## Filter Selections

### 95% DOP & >99.97% HEPA FILTERS

Manufactured from the highest quality of materials under strict quality control conditions, and are certified to ensure performance under the most critical of conditions for performance and leak-free operation. 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. Optimum performance with lower operating cost.

Upstream & downstream faceguard screens. Gasket seal limits the possibility of air bypass. Final Filter Integrity test carried out by a NATA registered laboratory.



#### AireCell HT High Temperature 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.

# Lyons Airconditioning Service (WA)

Filter Selections



## Heavy Duty Pressurisers & Air Purification for Mining & Earthmoving Operations

All biologically hazardous dust, fumes or vapours that are encountered in the workplace can be filtered. We will tailor a filtration system specifically for your operating environment.

We will deliver clean air to wherever you need it.

We also assist with cabin/room pressure testing and sealing problems that are common in older rooms and equipment.

Lyons supply pressurisers for:  
Any voltage. Switch boards.  
Control rooms. Smoko huts.  
Site offices.



Thousands of CP060 pressurisers are supplying operator cabins with clean air. This pressuriser uses high quality components manufactured exclusively for Lyons Airconditioning



**HEPA Pressurisers**  
Our NATA Certified CPHEPA delivers 80 Lt/Sec of clean air into your working environment. **Removes contaminants including dust, virus, smoke & asbestos.**



Our range of Dust/Fume and hazardous vapour pressurisers

prevent toxic air entering enclosed cabins and work areas. Our filters can be supplied to clean air contaminated by Agriculture sprays, SO<sub>2</sub>, Hydrocarbons, Formaldehyde and many other substance encountered in the workplace.



Sy-Klone RESPA-CF the "NEW" low maintenance pressuriser. Filters to 0.3 microns and is ideal for sites that have harmful dust hazards and diesel particulate issues. Recommended for silica and asbestos dust.