








Part of Absolent Air Care Group

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-  Clean your air
-  Protect your people
-  Extend your equipment life
-  Lower energy consumption
-  Protect against explosion



Part of Absolent
Air Care Group

Product Range

Unique. Efficient. Modern.
Air filtration systems

Trusted by
global brands
& market leaders
since 1978

Leaders in
dust control
& air filtration

Manufactured by Filtermist International Limited (part of Absolent Air Care Group), Dustcheck is one of the UK's leading brands of industrial process filters and dust collectors.

We offer a comprehensive range of cartridge and bag filters using compressed air cleaning systems, as well as wet dust collectors which use atomised water to 'scrub' dust from the air.

With an unrivalled reputation for quality and a client list spread across a wide range of industrial manufacturing and processing sectors, our technically innovative and cost effective solutions exceed today's stringent demands for low energy consumption and emissions; ensuring a cleaner, safer working environment.

Filtermist's Aftermarket Team offers spare parts and replacement filters for all makes and models of industrial air filtration equipment as well as Dustcheck units, and its Service Division delivers both routine and reactive maintenance, product support, and COSHH compliant LEV testing.

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Dustcheck industrial dust collectors remove problem or hazardous dusts from the air.

Dust collection



COSHH (Control of Substances Hazardous to Health) Regulations 2002 require all employers to protect employees from potentially harmful effects of breathable, respirable and ultra fine fraction particulate in the workplace.

Dust that is produced in many processes can also have serious effects on the health of your employees. Exposure to dust can cause skin conditions and occupational respiratory illnesses.

Many manufacturing processes require dust removal. Correctly designed dust control units help ensure working environments are clean and safe - protecting operators from the potentially harmful effects of dust inhalation in compliance with COSHH, and making sure the premises complies with all relevant legislation.

Dust control is vital in any manufacturing industry. A well-built, fit-for-purpose dust control system will:

- Protect people from dust related health hazards
- Reduce explosion risk and mitigate effects
- Reduce housekeeping and minimise breakdowns
- Improve product quality by preventing cross contamination
- Protect the environment



Potentially explosive dusts can be handled by using appropriately certified ATEX equipment. All of our filters come with ATEX rated options meaning potentially explosive and volatile products can be handled safely in line with the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR) where applicable.

If dust emissions can be controlled at source this will prevent egress of dust into the wider production environment. Less or no dust in the production environment means housekeeping tasks can be minimised, saving on maintenance requirements and preventing costly breakdowns making the process more productive and reducing operator intervention.

Efficient dust collection also prevents cross contamination with other materials, maintaining product quality. If maximising product yield is also an important consideration we can help you to achieve this with an effective filtration system.

If you are in the food or pharmaceutical industry we are able to offer FDA approved filter media and cartridges to enable powder recovery to process.

AirGuard Series

Circular Dust Collector Range

The Dustcheck AirGuard Series is a compact and versatile automatic reverse jet cleaned range of dust collectors designed to capture and remove airborne particulates from various processes enabling the protection of people, the environment and internal workspaces.

Using state of the art cartridge technology along with matching cleaning systems, the range offers optimal filtration performance, low energy consumption, extended filter life and most importantly, delivery of clean, filtered air.

The range is capable of handling high dust loads and offers significant environmental and technical advantages compared to conventional filter systems. Our ledge-free, circular design provides hygienic capture and filtration of particulates which lends the range particularly well to food and pharmaceutical type applications.

The inherent strength of the circular design also makes this unit ideal for high vacuum pressure systems and is available across the range as ATEX certified versions. When handling explosive dust we also have complete flexibility in terms of explosion safety with horizontal and vertical venting available, as well as flameless venting options and suppression system integration.

We understand the need for simple and easy maintenance; the ergonomic design enables the equipment to be used and maintained as easily as possible. Our electronic controllers are user-friendly and mounted in optimal positions for operators; hybrid access doors provide both hinged or lift-off ingress to the filter chamber and a tool free filter element interface makes filter changing simple.

Effective removal of airborne particulates enables protection of people, the environment and internal workspaces.



Features

- Rugged, weatherproof carbon steel construction painted dark grey matt RAL7043 or optional 304 stainless steel construction for dust contact parts (other grades and finishes available on request)
- Filter area from 6.4 to 57.6m²
- Standard collection bin with 'toggle clamp' bin location and optional anti-static plastic liner
- Optional fan assemblies with various duties
- Operating pressure 0.5 Bar(g) without explosion relief, -0.39Bar(g) with explosion relief, 0.45 bar(g) Pred vessel strength
- Differential pressure (clean on demand) feature as standard for low energy consumption and extended filter element life
- ATEX options with integral explosion relief (horizontal, vertical and flameless)
- Bin isolation valve option for on-line dust removal
- A variety of discharge arrangements instead of the standard collection bin are available such as rotary valve or double butterfly valve for particulate collection into larger vessels including FIBC's or skips

Advantages

- Guaranteed air quality for protection of personnel and both internal and external environments
- High efficiency and low emissions ensure compliance with COSHH and EPA regulations
- High operating vacuum pressure suitability
- Hygienic design
- Conical filter technology and matched cleaning systems for enhanced operation – prolongs life of the filter elements

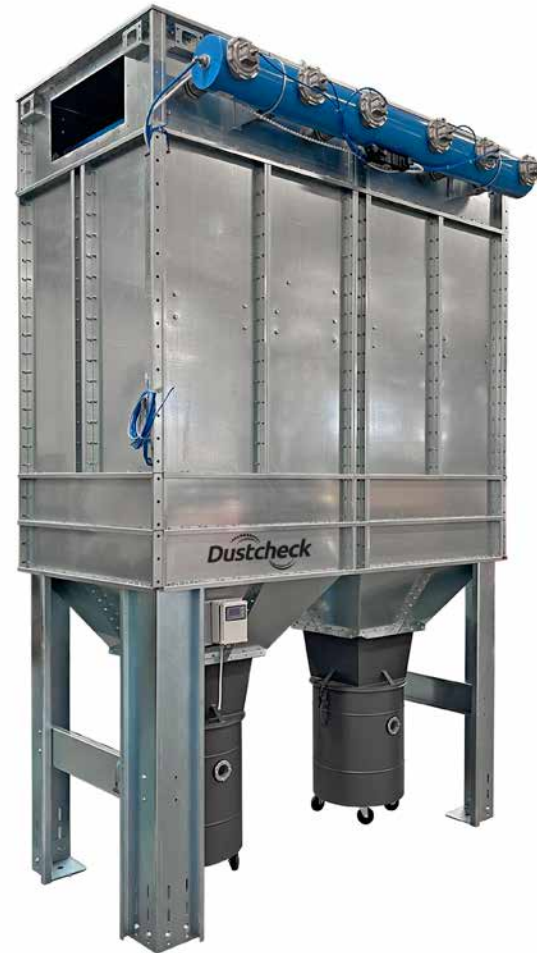
Maxi Series

Large Dust Collector Range

The Maxi Series of reverse pulse cleaned dust collector units are a modular compact solution for medium to large duty applications. A choice of 325mm diameter 'deep pleat' cartridges, 200mm diameter 'shallow pleat' cartridges or 125mm tubular bags allows ultimate flexibility for handling a wide range of contaminants.

The rugged 2.5mm and 3mm thick carbon steel or stainless-steel construction comes with options of ATEX compliancy, explosion relief for combustible dusts, clean side or dirty side removal filter elements, and a range of dust discharge options such as bin collection or rotary valve feed to FIBC etc.

Unit formats can be varied to best suit the available footprint and contaminant type. Other hopper discharge options such as screw conveyor transfer are also available to cater for all requirements.



Features

- Filter areas up to 738m² for deep pleat cartridge, 1,152m² for shallow pleat cartridge and 288m² for tubular bags
- Cartridge pleat options along with tubular bag to cater for all types of contaminants
- Filter medias and surface coatings to suit individual applications
- 170 litre standard collection bin
- Top or floor mounted fan sets available on request
- Full ATEX compliancy where required
- Differential pressure (clean on demand) controller option
- Explosion relief options for handling explosive contaminants
- Optional bin liner facility for ease of dust disposal
- Ladder and handrail for clean side filter removal options (standard on tubular bag)

Advantages

- Heavy duty construction for long operational life and suitable for arduous conditions such as foundries and heavy industry
- Galvanized finish provides superior lifespan and surface finish compared to traditional painted filter units
- Modular construction allows for versatile orientation and flexibility
- High efficiency cleaning systems and controls provide minimised energy consumption
- Clean side or dirty side removal filters to suit customer site and access conditions
- High filtration efficiency medias provide low emissions to atmosphere and guaranteed air quality
- High level inlet provides 'cross-flow' air pattern which eliminates upward air velocities within the housing and promotes better sedimentation of contaminants

Downflow

Down Flow Dust Collector Range

The Downflow Series of reverse jet cleaning dust collector units offer a compact solution for medium to large duties and use the 328mm diameter 'deep pleat' cartridge technology.

Utilising a high-level inlet and the cartridges mounted in a horizontal format, the units offer enhanced cleaning capability due to the 'down-flow' air pattern and can be extremely effective on light and low bulk density dusts.

The units can also be offered with safe change filter element removal & product collection, and integral secondary HEPA filter sections.

This makes the range well suited for use with toxic dusts or where exposure to the operator and environment is strictly controlled (e.g. pharmaceutical applications).



Features

- Rugged carbon steel painted or optional stainless steel construction
- Filter area from 15 to 320m²
- Filter medias and pleat formats to suit individual applications
- BIBO safe change options for filter change and dust emptying
- Standard collection bin with 'cam lift' bin locating technology or BIBO safe change dust collection
- +/- 0.05 Bar(g) operating pressure rating as standard (higher available on request)
- 0.2 Bar(g) pressure shock resistant (PSR) as standard
- Differential pressure (clean on demand) controller option
- ATEX options with integral explosion relief (horizontal, vertical and flameless)
- Optional bin liner facility, isolation valve and a variety of discharge hopper arrangements

Advantages

- Suitable for low bulk density dusts
- Safe change facility, no production area contamination - safe for the operator and complies with COSHH regulations

Available with 'safe change' (bag in / bag out) filter element and dust removal for protection of operators.

Nonflam Series

Self-Induced Spray Wet Dust Collector Range

The Nonflam Series of wet filtration units can be sited inside or outside (with weather protection) if space is at a premium.

The Nonflam Series has a built-in silencer to comply with standard noise regulations and can also be supplied to meet ATEX zoning requirements.

Available in either painted mild steel or stainless steel construction, it is ideally suited to metal dusts and especially white metal dusts which can be highly explosive. These units are designed to handle the heavy loading of larger, mechanically generated dust particles from grinding, finishing and polishing processes.

Features

- Volumes ranging from 720 – 16,200 m³/hr
- Mild steel painted, stainless steel and GRP options
- Self-induced wet scrubbing always provides the full design air volume extraction rates (continuous extraction)
- Fan set built in with anti-spark option and silencer
- Weather protection option for outside locations
- Complies with the health and safety guide HSG258

Advantages

- High efficiency filtration
- Suitable for hazardous applications
- Simple eliminator removal for cleaning
- Easily removable front door for easy access to eliminators, inducer and sludge removal
- Can handle a wide range of difficult and sticky dusts
- Can handle sparks without the fire risk associated with membrane filters
- Can also handle titanium, aluminium or magnesium with optional control



Dust collection Solutions

Midac Series

Heavy Duty Wet Dust Collector Range

The Midac Series of wet filtration units offers enhanced design and construction for a cost effective, bespoke solution. Able to extract efficiently from machining systems of much higher complexity and pressures, this range can be tailored to suit your exact requirements.

In addition to the standard range, we offer add-on packages such as the Automatic Waste Management System or Hopper Bottom Waste Collection System.

Features

- Able to handle air volumes of 10,000 m³/hr up to 20,000 m³/hr
- Available with automatic sludge removal

Advantages

- Efficiency levels up to 99% and higher depending on dust characteristics
- Suitable for hazardous applications
- Simple eliminator removal for cleaning
- Quick release hinged front doors for easy access for sludge removal
- Can handle a wide range of difficult and sticky dusts
- Manufactured from heavy gauge sheets for extended durability
- Can handle sparks without the fire risk associated with membrane filters
- Can also handle titanium, aluminium or magnesium with optional control



Auto Sludge Series

Automatic Sludge Removing Wet Dust Collector Range

The Auto Sludge Series of wet filtration units are able to handle large air volumes effectively.

A self-induce spray system provides a scrubbing action that can be up to and over 99% efficiency. It also incorporates our purpose built Automatic Drag Out System for sludge removal.

They are manufactured from heavy gauge sheet to provide extended lifespan and durability, and are able to handle air volumes from 17,000 m³/hr to 82,000 m³/hr.



Features

- Includes automatic sludge removal

Advantages

- Efficiency levels up to 99% and higher
- Suitable for hazardous applications
- Simple eliminator removal for cleaning
- Can handle a wide range of difficult and sticky dusts
- Manufactured from heavy gauge sheets for extended durability
- Can handle sparks without the fire risk associated with membrane filters
- Can also handle titanium, aluminium or magnesium with optional control

Cyclovent Series

Multi-stage Venturi Scrubber Wet Dust Collector Range

For any given particle size and required collection efficiency, the Cyclovent range of wet filtration units typically requires 25% less pressure loss, and hence less power than a single or conventional multi-stage venturi scrubber.

The ability of the Cyclovent to operate at a lower pressure loss has been consistently demonstrated in successful applications in the UK and in pilot plant testing.

A Cyclovent wet collector will achieve a significantly greater collection efficiency than a conventional venturi scrubber operating at the same pressure loss.

Features

- Able to handle air volumes of 1800 m³/hr up to 36,000 m³/hr
- Larger air volumes possible with multiple Cyclovents using a common tank
- Dustcheck's highest efficiency wet collector
- Available with automatic sludge removal

Advantages

- Very high efficiency levels > 99.5% (depending on process and dust)
- Suitable for hazardous applications
- Can handle a wide range of difficult and sticky dusts
- Manufactured from heavy gauge sheets for extended durability
- Can handle sparks without the fire risk associated with membrane filters
- Can also handle titanium, aluminium or magnesium with optional control



The Dustcheck process filter ranges are designed to integrate with other equipment to provide clean air from pneumatic and mechanical conveying systems and gravity fed operations.

Process Filters



Venting Filters

Venting filters for material conveying systems are typically applied to receiving vessels on positive pressure and vacuum conveying systems, mechanical conveying systems and gravity feeding applications.

Our Vessel Venting Filter range is designed for low air volume, gravity fed applications where dust control is required due to the displacement of air when bulk product is moved from one place to another.

Silo venting filters are a specific type of filter that will separate the product from the air during the conveying period and during the air surge at the end of the filling cycle.



Protection Filters

Inlet and in-line protection filters clean process air streams and are rated from F8 to H14 efficiency.

By installing an inlet protection filter you're guaranteeing process air quality, preventing product contamination, keeping your equipment running efficiently and reducing the chance of breakdown.

Inline Protection Filters are rated up to HEPA rated H13/14 efficiency. They are often referred to as secondary or guard filters and can be used as a back up to a primary venting filter where products are potentially toxic or have strictly controlled Workplace Exposure Limits – or where the air is to be recirculated into the production environment.

They are also used on the inlet to vacuum pumps or negative pressure conveying systems to prevent costly breakdowns.



**New
DESIGN**

ProGuard Series

Process Venting Filter Range

The Dustcheck ProGuard Series is an extremely compact and versatile automatic reverse jet cleaned range of venting filters, designed to capture and remove particulates from pneumatic and mechanical transfer systems enabling protection of people, the environment and internal work spaces.

Using state of the art cartridge technology along with matching cleaning systems, the range offers optimal filtration performance, low energy consumption, extended filter life and most importantly, delivery of clean, filtered air.

The range is capable of handling high dust loads and offers significant environmental and technical advantages compared to conventional filter systems. Our ledge-free, circular design provides hygienic capture and filtration of particulates which lends the range particularly well to food and pharmaceutical type applications.

The inherent strength of the circular design also makes this range ideal for high vacuum pressure conveying systems and is available as ATEX certified versions. When handling explosive dusts the strength of our units can allow for reduced explosion vent areas required on the vessels to which the filters are applied.

We understand the need for simple and easy maintenance - the ergonomic design enables the equipment to be used and maintained as easily as possible. Our electronic controllers are user-friendly and mounted in optimal positions for operators; hybrid access doors provide both hinged or lift-off ingress to the filter chamber and a tool free filter element interface makes filter changing simple.

Offers optimal filtration performance, low energy consumption, extended filter life and most importantly, delivery of clean, filtered air



Advantages

- Guaranteed air quality for protection of personnel and both internal and external environments
- High efficiency and low emissions ensure compliance with COSHH and EPA regulations
- High operating vacuum and pressure suitability
- Hygienic design
- Conical filter technology and matched cleaning systems for enhanced operation – prolongs life of the filter elements

Dustcheck
ProGuard

Features

- Rugged, weatherproof carbon steel painted dark grey matt RAL7043 or optional 304 stainless steel construction for dust contact parts (other grades and finishes available on request)
- Filter area from 6.4 to 57.6m²
- Fan assisted options
- -0.5 to + 0.5 Bar(g) operating pressure rating
- Differential pressure (clean on demand) feature as standard for low energy consumption and extended filter element life
- ATEX options



Silovent Series

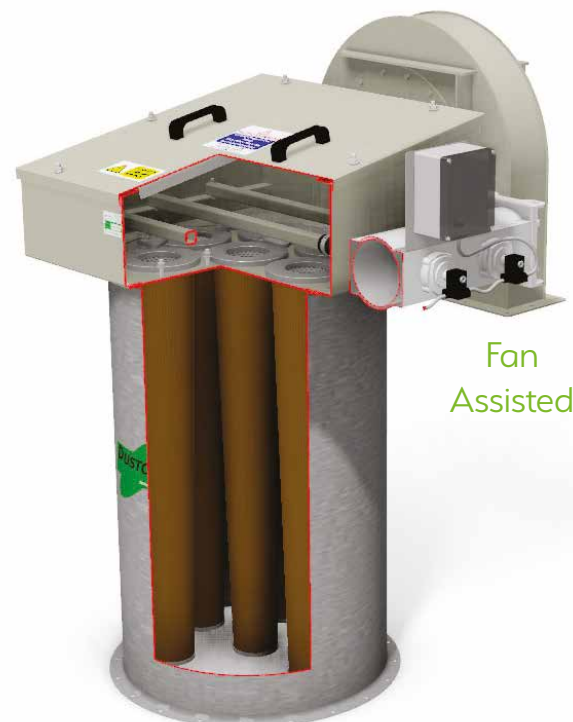
Silo Venting Filter Range – Standard & Fan Assisted

The Silovent Series is a high quality, cost effective reverse jet cleaning venting filter designed specifically for the venting of bulk storage silos being filled pneumatically via a road tanker or land-based blower unit.

The weatherproof and rugged carbon steel galvanized or optional 304 stainless steel construction makes the unit ideal for silo top placement.

It includes a simple element retaining method with no removable parts for easy and safe filter change via a hinged weather-cowl complete with retaining latch. It is extremely competitively priced and where suitable it can also be applied to other venting type applications.

The fan assisted version gives 'forced aspiration' to negate positive pressure issues in some silos.



Fan Assisted

Features

- Ergonomic design, easy to work on
- Filter area 21.0m² or 24.5m²
- Simple access and element retaining methods with no removable parts
- ATEX options available
- Up to +/- 0.5 Bar(g) operating pressure rating
- 1 Bar(g) pressure shock resistant (PSR) as standard (2 Bar(g) PSR available on request)
- Optional 304 stainless steel construction
- Differential pressure (clean on demand) controller options

Advantages

- Minimal maintenance requirements
- Reliable operation and long filter life with easy element replacement which reduces downtime
- High efficiency and low emissions to atmosphere offering guaranteed air quality to ensure compliance with COSHH and EPA regulations
- Conical filter technology for enhanced pre-separation and cleaning which prolongs the life of the filters



Non-Fan Assisted

Process Filtration

Vesvent

Vessel Venting

The Vesvent Series is a range of single cartridge, reverse jet cleaned venting filters.

The units can be used for a variety of applications including venting of vessels being filled mechanically or via gravity from an upstream process.



Features

- Filter area from 0.3 to 1.6m²
- -0.5 to +0.5 Bar(g) operating pressure rating (higher available on request)
- 1 Bar(g) pressure shock resistant (PSR) as standard
- Optional 304 stainless steel construction
- Weatherproofing options
- Differential pressure (clean on demand) controller options
- ATEX options available

Advantages

- Minimal maintenance and easy element replacement
- High efficiency guarantees air quality, eliminates production contamination, protects the environment and personnel

Ventmatic

Rotary Valve Venting

The Ventmatic Series is a compact, twin cartridge reverse jet cleaned venting filter.

It is designed primarily for rotary valve venting, as well as other low duty venting applications; and its twin valve cleaning system ensures 50% 'free' vent area during cleaning for when cleaning during operation is required, or where pressurisation of the filter chamber and associated discharge equipment could cause other process problems.

The optional fan gives 'forced aspiration' to the unit to negate positive pressure in the filter chamber.

Features

- Filter area from 1.0 to 3.2m²
- Up to +/- 0.1 Bar(g) operating pressure rating
- 0.5 Bar(g) pressure shock resistant (PSR)
- Optional 304 stainless steel construction and weatherproofing
- Differential pressure (clean on demand) controller options
- ATEX options available

Advantages

- Minimal maintenance requirements, 'on-line' cleaning system and long filter life
- High efficiency guarantees air quality, eliminates production contamination, protects the environment and personnel



Bag Tip Series

Sack Tipping Unit Range

The Bag Tip Series is an extremely simple and compact 'self-contained' solution for the decanting of sacks/bags into downstream processes.

The unit incorporates a sack tipping chamber with integral gas strut assisted door and tipping grid, coupled to a rear mounted fan assisted 9m² filter unit employing our well established 120mm conical cartridge technology.

The unit is designed to give effective dust control and protection to the operator and production environment during tipping operations. A variety of discharge options are available to suit all process requirements.

Features

- Rugged carbon steel painted construction with option for 304 stainless steel
- Filter medias to suit various applications and products
- Removable bag tipping grid/resting shelf
- Integrated and pre-wired control panel options
- ATEX options available
- Mounting feet or support legs available
- Empty bag disposal spigot option

Advantages

- Minimal maintenance, reliable operation and long filter life
- Fast and easy element removal/replacement
- High efficiency guarantees air quality, eliminates production contamination, protects the environment and personnel and saves energy and money - ensuring compliance with COSHH and EPA regulations
- Conical filter technology for enhanced pre-separation and cleaning - prolongs life of the filters



an extremely
simple and
compact
'self-contained'
solution

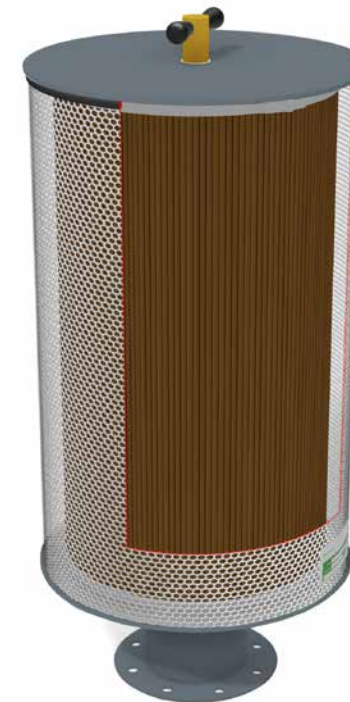
Process Filtration

IPF Series

Inlet Protection Filter

The IPF Series is a range of non-self-cleaning inlet protection filters designed to protect and clean airflow into a production process.

Typical uses are on vacuum conveying intake applications, exhauster vacuum break systems and vessel breather applications.



Features

- Rugged carbon steel painted construction
- Filter area from 5 to 20m²
- Filter medias to suit all applications and products
- Filter efficiencies up to H14 HEPA class
- Optional 304 stainless steel construction
- Optional weatherproofing
- ATEX options available

Advantages

- Guaranteed process air quality - reducing product contamination
- High efficiency and minimal maintenance - saves money

CFC Series

Inline Protection Filter

The CFC Series is a range of static in-line protection filters designed to provide protection to dust laden processes.

The rugged carbon steel or stainless steel construction is typically fitted downstream of a primary venting filter or used as a stand-alone in-line filter; and can provide protection to exhauster units on vacuum conveying systems or prevent emissions to atmosphere in the event of a primary filter fault.

It has modular features such as standardised inlet and outlet connections, adaptable orientations, universal supports to suit individual site conditions and moveable pressure gauge positions.

Features

- Filter area from 5 to 20m²
- Filter medias to suit all applications and products
- Modular construction for adaptability
- Filter efficiencies up to H14 HEPA class
- Carbon steel painted or stainless steel construction
- Weatherproof as standard
- Suitable for ATEX applications
- Optional safe change filter removal / replacement

Advantages

- Prevents emissions to atmosphere and guarantees air quality
- Minimal maintenance, reduces housekeeping, downtime and saves money
- High efficiency - protects environment and personnel



A global group of
filtration technology
manufacturers.

Filtermist's experienced team has
safely delivered customised air
handling and pollution control
systems to ensure clean air in
working environments since 1969.



Part of Absolent
Air Care Group



Introducing Filtermist Systems

Absolent AIR CARE GROUP

Filtermist Systems is part of the Swedish Absolent Air Care Group, a global group of filtration technology manufacturers.

The business combines the skills and expertise of a group of specialist businesses that have been brought together to provide solutions for an unparalleled coverage of markets.

Filtermist Systems provides an end-to-end service from initial consultation and project planning, to system design, specification, manufacture and supply, installation, commissioning and after-sales support.

www.filtermist.co.uk

The business combines
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