



Part of Absolent  
Air Care Group

# Product Range

Unique. Efficient. Modern.  
Air filtration systems



Trusted by  
global brands  
& market leaders  
since 1978



Part of Absolent  
Air Care Group

Leaders in  
dust control  
& air filtration

Manufactured by Filtermist 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 57.6m<sup>2</sup>
- 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 and rotating nozzle cleaned dust collector units are a compact solution for medium to large duty applications and use the 328mm diameter 'deep pleat' cartridge technology for maximum filter area.

The rugged carbon steel (or stainless steel) construction comes with options of explosion relief, single and double height filter elements and a range of dust discharge options such as rotary valve feed to FIBC etc.

The units can also utilise either 'jet' or 'rotor' cleaning depending on the requirements. Rotor cleaning gives the benefit of 'off-line' filter regeneration without stopping the filter unit or the customer's production.

Unit formats can be varied to best suit the available footprint and other hopper discharge options are also available to cater for all requirements.



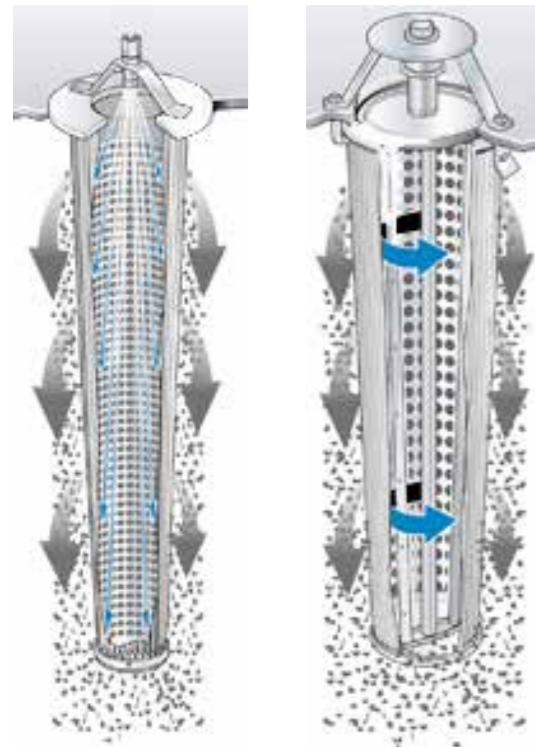
Dust collection Solutions

### Features

- Filter area from 20 to 480m<sup>2</sup>
- Filter medias and pleat formats to suit individual applications
- Standard collection bin with 'cam lift' bin location
- Top or floor mounted fan sets
- -0.02 to +0.04 Bar(g) operating pressure rating (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
- Bin liner facility

### Advantages

- Minimal maintenance requirements and long filter life - reduces downtime and saves money
- High efficiency, low emissions to atmosphere and guaranteed air quality
- Versatile orientation offers flexibility



Jet Cleaning

Rotor Cleaning

# 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 320m<sup>2</sup>
- 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 m<sup>3</sup>/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 m<sup>3</sup>/hr up to 20,000 m<sup>3</sup>/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



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

Inline Protection Filters are rated up to H13/14 HEPA 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.



New  
DESIGN

## ProGuard and ProGuard Plus Series Process Venting Filter Range

The Dustcheck ProGuard (clean section only) and ProGuard Plus (clean section and filter body) are 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



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 57.6m<sup>2</sup>
- 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

### 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

ProGuard Plus





# 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.



### Features

- Ergonomic design, easy to work on
- Filter area 21.0m<sup>2</sup> or 24.5m<sup>2</sup>
- 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

# 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 1.6m<sup>2</sup>
- -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 cleaning 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 3.2m<sup>2</sup>
- 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 9m<sup>2</sup> 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.



an extremely simple and compact 'self-contained' solution

### 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

## Process Filtration

# 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.

The CFC can provide protection to exhauster units on vacuum conveying systems or prevent emissions to atmosphere in the event of a primary filter fault.

The recently redesigned unit is now available with modular features such as standardised inlet and outlet connections, adaptable orientations, universal supports to suit individual site conditions and moveable pressure gauge positions. It is also available with an optional 'safe change' (bag in / bag out) filter change for use where toxic or sensitive dusts are filtered (e.g. pharmaceutical applications) or where general protection of operators from dust exposure is required.



### Features

- Filter area from 5 to 20m<sup>2</sup>
- 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 - to ensure compliance with COSHH and EPA regulations
- 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 Limited



**Absolent** AIR CARE GROUP

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

[www.filtermist.co.uk](http://www.filtermist.co.uk)

The business combines the skills and expertise of a group of specialist businesses

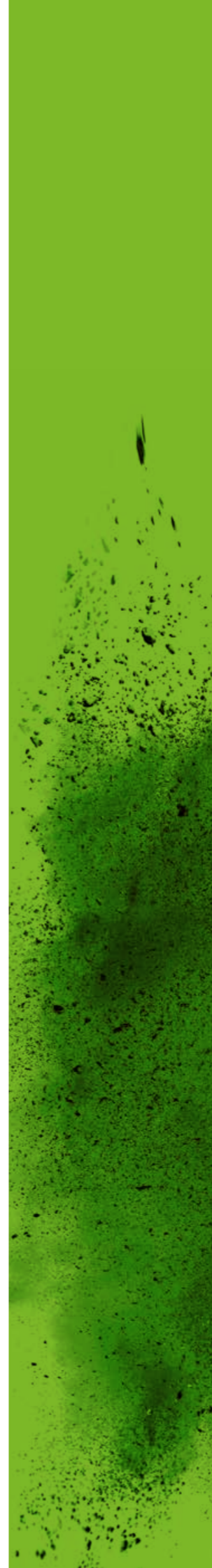


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# Notes

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Clean your air



Protect your people



Extend your equipment life



Lower energy consumption



Protect against explosion