



# **FILTERMIST**

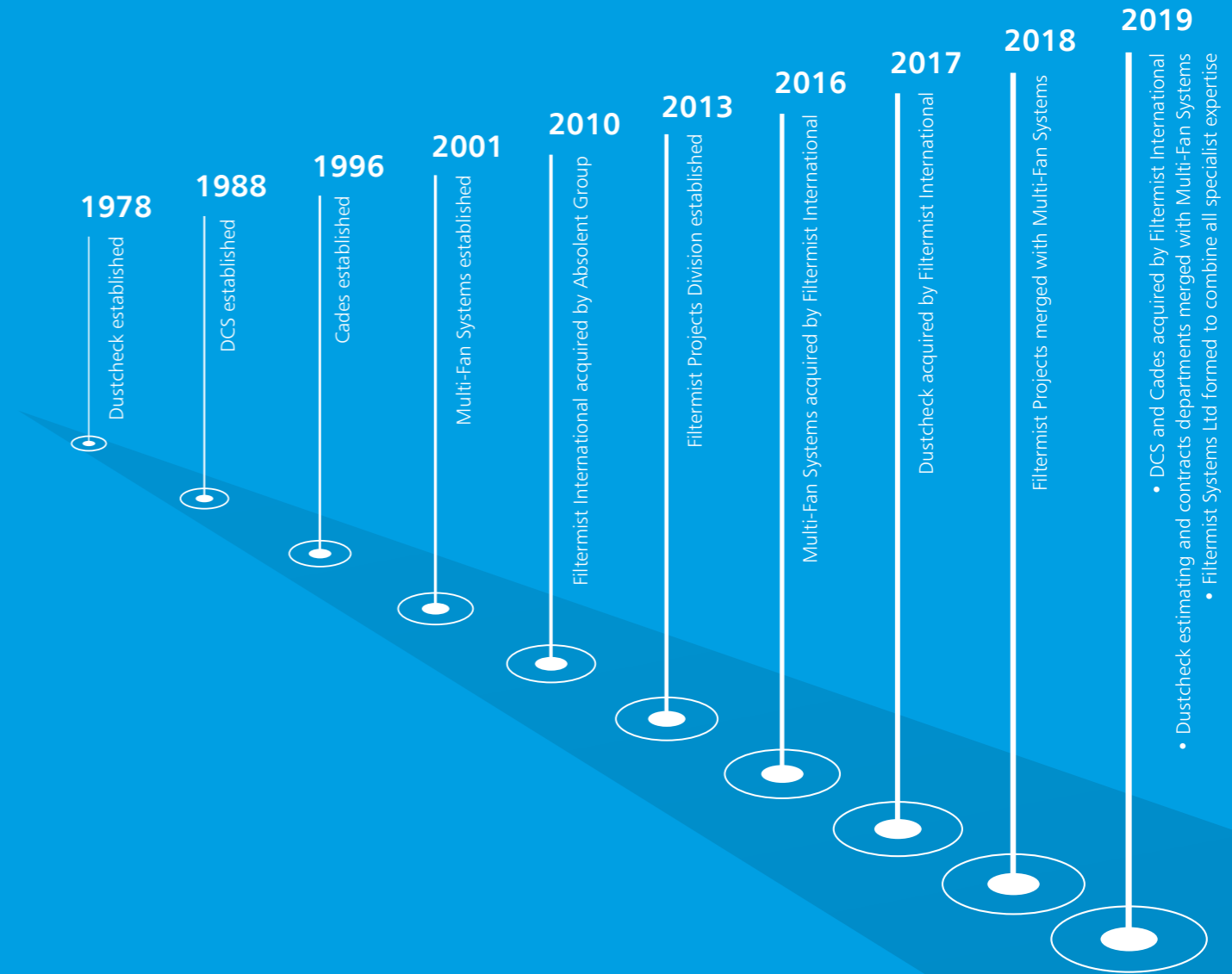
CUSTOMISED AIR MOVEMENT AND POLLUTION  
CONTROL SYSTEMS FOR ALL TYPES OF  
INDUSTRIAL AIRBORNE CONTAMINANTS

# CUSTOMISED SYSTEMS FOR AIR MOVEMENT AND AIR POLLUTION CONTROL

Filtermist Systems is part of the Swedish Absolent 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.



## DELIVERING CLEAN AIR AND IMPROVING WORKING ENVIRONMENTS



## PROVIDING A FULL TURNKEY SERVICE TO CLIENTS

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

Minimising risk is an integral part of Filtermist Systems' service. A Target ZERO culture delivers the highest levels of health and safety, whilst experienced project managers ensure on-time delivery.



## PARTNERING WITH LEADING BUSINESSES IN THE UK AND EUROPE

Filtermist Systems' experienced team has delivered large scale extraction projects for clients in a range of industrial sectors including:

- Aerospace
- Agriculture
- Automotive
- Chemical
- Education
- Engineering
- Food and beverage
- Medical device manufacture
- Packaging and converting
- Pharmaceutical
- Printing
- Rubber and plastics
- Woodworking.

All aspects are carefully managed by NEBOSH, P601, P602 and P604 accredited engineers to ensure projects are delivered to the highest standards, on time and within budget.

**RICOH**  
imagine. change.



**AVL**



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# DELIVERING A TRIED AND TESTED PROCESS

The eight-step process is central to our focus on safety, quality and on-time delivery.

# 1

## CONSULT



Filtermist Systems' experienced team begins each project by listening to the client's requirements and assessing all aspects of the contract. It considers the environmental impacts, the health and safety, and overall performance requirements, through to the maintenance schedules once the site has been signed off.

# 2

## PLAN



A designated engineer is appointed to each project and is responsible for ensuring the system is planned, manufactured and delivered in accordance to both the design brief and all relevant regulatory requirements.

Filtermist Systems' experienced team is P602 accredited and has undertaken IOSH training including Managing Safely. Team members are also certified by NEBOSH.

The project manager can be situated on site for the entirety of the build or as required by the client.

# 3

## DESIGN



Filtermist Systems employs skilled P602 accredited systems designers who use the latest technologies to produce detailed 2D and 3D plans and visualisations. AutoCad is complemented by FARO 3D scanners to produce comprehensive plans to scale, with images and animated 'fly-throughs' showing how the proposed system will integrate with the planned or existing building utilities.

This BIM (Building Information Management) capability enables the client to easily visualise what the proposed system will look like in situ, and plan how the changes will affect the business.

It also acts as a 'user handbook' once the installation has been completed as the drawings contain exact details of all parts used and their location in the system. Filtermist Systems currently works to BIM Level 2, but can deliver up to BIM Level 3 if required.

# 4

## SPEC



As part of the Absolent Group, Filtermist Systems is not bound by one manufacturer. It listens to the client's needs and then specifies accordingly. It is the company's goal to provide the best solution to ensure the client's needs are met. Extraction systems are designed within the guidelines of the HSE's HSG258 'Controlling airborne contaminants at work – a guide to local exhaust ventilation.'



# 5

## SUPPLY



Absolent Group companies have manufactured air extraction and filtration systems in the UK and Sweden since 1969. The group operates four UK-based in-house fabrication departments which manufacture a wide range of ducting, canopies and accessories, as well as Filtermist and Dustcheck branded filtration equipment using traditional metalworking techniques coupled with the latest technologies.

Filtermist Systems is also the UK distributor for Italian VOC (Volatile Organic Compounds) abatement specialist Brofind Spa, as well as Moldow modular and chain filters, and Shucko filters.

Filtermist is also able to source products from a number of other manufacturers to ensure the best possible results for all clients - regardless of the size and nature of the project.

# 6

## INSTALL



Filtermist Systems operates dedicated installation teams which work to the highest standards at all times. The company is accredited by SafeContractor for the high levels of health and safety it practices.

Depending on the client's requirements, Filtermist Systems can carry out full site management, or work under Construction, Design and Management (CDM) regulations.

The company rigorously monitors and audits its teams to ensure that they work safely, efficiently and within the guidelines of its clients' needs at all times.

The teams are managed by NEBOSH qualified contracts managers, and all employees are seasoned professionals who are both qualified and experienced in carrying out installation of ducting, pipework, electrics and filtration systems.

# 7

## COMMISSION



Filtermist Systems' P604 accredited engineers commission all of the equipment that has been installed in accordance with HSG258 guidelines before the project is signed off. A series of regular tests are undertaken to ensure that the system is performing as designed and once the team is completely satisfied that everything is in order, the project is completed.

# 8

## SUPPORT



Filtermist Systems provides an extensive aftersales service:

- Approved spare parts for a wide range of air filtration and extraction equipment
- Routine and reactive maintenance which includes regular checking and changing of filters if required, as well as checks to motors and all system-related consumables. Ducting is checked for wear and tear, and airflow and pressure tests are carried out to ensure the system is performing as per the design
- CoSHH (Control of Substances Hazardous to Health) compliant LEV Testing from our dedicated P601 qualified LEV engineers
- Air monitoring including personal and ambient testing.



WORKING WITH AN EMBEDDED

# TARGET ZERO CULTURE

Filtermist Systems strives towards a target of ZERO harm. This is achieved through a comprehensive understanding of best practice and the rigorous use of safety procedures and documentation.

Minimising risk is an integral part of Filtermist Systems' service. A Target ZERO culture delivers the highest levels of health and safety, whilst experienced project managers ensure on-time delivery.

## PROVIDING SAFE WORKING ENVIRONMENTS

### DUST CONTROL:

Dust inhalation can be deadly. CoSHH legislation requires all employers to protect employees from the potentially harmful effects of certain dusts. Similarly, external atmospheric pollution is controlled under EPA (Environmental Protection Act) legislation.

Correctly designed dust control systems will provide a safe working environment - protecting operators from dust inhalation and ensuring compliance with all relevant legislation.

Filtermist Systems' dust control systems capture dusts emitted at source through custom designed hoods and ducted systems. Dust filter selection is made dependent on the application, dust characteristics and filtration efficiencies. Where appropriate, mechanical pre-separators (e.g. cyclones) and high efficiency afterfilters (HEPAs) will also be installed. Potentially explosive dusts are handled in appropriately certified ATEX equipment including features such as anti-static filter bags, earth bonds, explosion vent panels and non-sparking components.



### FUME AND SMOKE EXTRACTION:

Fume pollutants can produce an unpleasant and, in some cases, hazardous working environment. Filtermist Systems' fume control systems ensure that industrial work places are safe environments which comply with the latest CoSHH, EPA and DSEAR (Dangerous Substances and Explosive Atmospheres Regulations) legislation. In addition to general extraction comprising fans, ducting, flexible arms and canopies, Filtermist Systems can supply fume treatment equipment to comply with EPA IPPC (Integrated Pollution Prevention and Control) regulations. These measures include activated carbon filtration, wet scrubbing, chemical scrubbing, electrostatic filtration, oil mist elimination equipment and thermal & catalytic oxidation. Typical fumes handled or treated include welding fumes, process generated fumes, vehicle exhaust fumes, chemical fumes and solvent fumes.

## OIL MIST EXTRACTION:

Filtermist International has specialised in effective oil mist extraction since 1969 and is trusted by some of the world's leading manufacturers to effectively remove oil and coolant mist from the air in their workshops. Exposure to oil mist can cause a number of health issues including respiratory diseases such as extrinsic allergic alveolitis. If left in the atmosphere, oil mist also poses a fire and slip risk and can damage sensitive electrical equipment. Oil mist filters are designed to collect and filter air which is contaminated with oil and coolant mist at source.

Filtermist Systems' independence enables it to utilise standard off the shelf products or provide bespoke systems with airflows of up to 500,000m<sup>3</sup>hr.

Oil mist extraction equipment supplied by Filtermist Systems falls into two main types - filters designed to suit water-soluble based coolants (used in applications such as machining, grinding, turning and milling) and units for oil smoke generated from neat oil applications (used in processes such as cold heading, heat treatment and forging operations).

## VENTILATION AND COOLING:

Well-designed ventilation systems are an essential part of a healthy working environment - improving working conditions by supplying a constant flow of fresh air. Filtermist Systems' evaporative cooling systems are a cost-effective solution for high temperatures in the workplace, providing large volumes of cooled air for spot cooling or general ventilation. Filtermist Systems supplies a wide range of coolers and accessories. Units can be supplied with bodies in stainless steel or polyamide.



## VACUUMING AND CONVEYING:

Filtermist Systems provides centralised vacuum cleaning systems for defined areas or entire factory coverage, with multiple extraction points distributed across the required areas.

Utilising flexible hoses and cleaning tools, operators can easily clean down production equipment or floor spillages. Pipe-work is easy to dismantle for cleaning or re-routing. Systems can be designed for single or simultaneous multi-user applications.

Continental multi-stage exhausters are Filtermist Systems' preferred vacuum producing units - being both powerful and quiet. Depending on the type and characteristics of the dusts being handled, cartridge or bag filters are normally specified complete with automatic cleaning controls.

Mobile vacuum cleaning units can also be supplied when smaller and more localised cleaning duties are required.

Filtermist Systems also supplies pneumatic conveying systems and components, to convey powders, granules or moulded products within a wide range of industries. Systems comprise positive pressure blowing, negative pressure suction, or combinations of both.

## PRODUCTION WASTE EXTRACTION:

Filtermist Systems designs and supplies complete production waste extraction systems. Using ducted air, the systems automatically remove production waste generated by converting machinery to remote centralised collection units, such as compactors or balers.

Systems are designed to suit specific applications and waste material types, using suction extraction or pressure blowing. Venturi extraction systems are available for continuous edge trim waste.

Typical converting applications include paper and plastic film, corrugator, carton and board, and print finishing.

## VOC ABATEMENT:

Filtermist Systems is the sole representative for Brofind Spa in the UK, which specialises in the supply and installation of VOC (volatile organic compound) Abatement and Odour Control Systems to comply with current environmental legislation. The systems are based on the following technologies:

- Direct fired oxidizers or afterburners
- Regenerative and recuperative thermal oxidisers (RTO)
- Catalytic oxidisers
- Adsorption systems
- Rotary concentrators (carbon and zeolite)
- Wet scrubbers (venturis and packed towers)
- Biological systems
- Secondary heat recovery.

All systems are purpose designed to provide the optimum, cost-effective solution with consideration to both capital and operating costs. Many operate without the use of support fuel, by careful design of primary and secondary heat recovery and/or process optimisation.

Filtermist Systems' personnel offer decades of experience in the above fields gained through service in and collaboration with major organisations such as the former UK air treatment specialist Haden Drysys Environmental.

## PAINT SPRAY REMOVAL:

Filtermist Systems designs, manufactures and installs paint finishing systems for a wide range of industrial processes. Our dry filter spray booths, bench booths and large-scale bespoke booths are all manufactured with a full range of exhaust ducting and a choice of filter media, designed for compliance with all legislative and industry standards.



# PROTECTING PEOPLE

CLEANER,  
SAFER, MORE  
PRODUCTIVE  
WORKING  
ENVIRONMENTS







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