schenckprocess

ProPulse Industrial Air Filters – the smart process solution

Over 40 years of industrial air filtration experience and extensive process systems knowledge

we make processes work

Schenck Process Group – Your Partner Worldwide

Acting locally to support your needs the Schenck Process Group is working where you are.
With a global network of sites and competent partners, the name Schenck Process is synonymous throughout the world with process expertise and well-engineered technology for industrial weighing, feeding, mechanical and pneumatic conveying, screening, automation and air filtration technology.

Our key skills include planning processes, air filtration, conveying, feeding bulk materials, controlling flows of material, recording flows of goods, weighing goods and automating transport processes.

Members of the Schenck Process Group are:

schenck process
stock
fairfield
clyde process
pentec
schenck AccuRate
redler
screenex
mac process

Extensive Industrial Air Filtration expertise with process systems knowledge

Schenck Process offer a portfolio of industrial air filtration products that have been designed specifically for European technical and process requirements. Based on the Mac Process dust collectors, which has been successfully cleaning the air in the USA for over 40 years, the extensive range includes bag and cartridge filtration products suitable for a large range of air flows and applications.

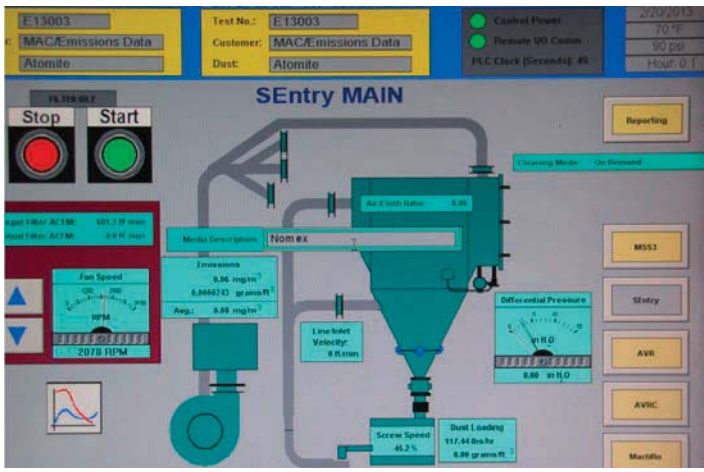
The range has been designed to offer the customer unrivalled flexibility. Access into the filters for media changing can be via the top or the side, to suit process or site requirements and most of the products within the range are available in a choice of four formats: clean air plenum only; clean air plenum and filter body; clean air plenum, filter body and bottom hopper; and clean air plenum, filter body and bottom product receiver hopper for conveying applications.

Schenck Process has considerable experience of controlling dust in process areas which reduces the potential risk of explosion. When handling explosive dusts the range of filters is ATEX compliant and can be fitted with a variety of explosion prevention technologies such as explosion venting, flameless venting or suppression, to suit specific site or material requirements.

TestCentre

Perfect reliability through extensive tests on more than 600 different types of material at the Schenck Process TestCentres.

The Schenck Process filtration TestCentre includes a Particle Emissions Test (PET) machine, which is unique in the filtration industry and will record and graph air flow and velocity, air-to-cloth ratios, pressure differentials, inlet loading and outlet mass emissions. The machine enables a system to be designed that will best match the client's requirements and application.

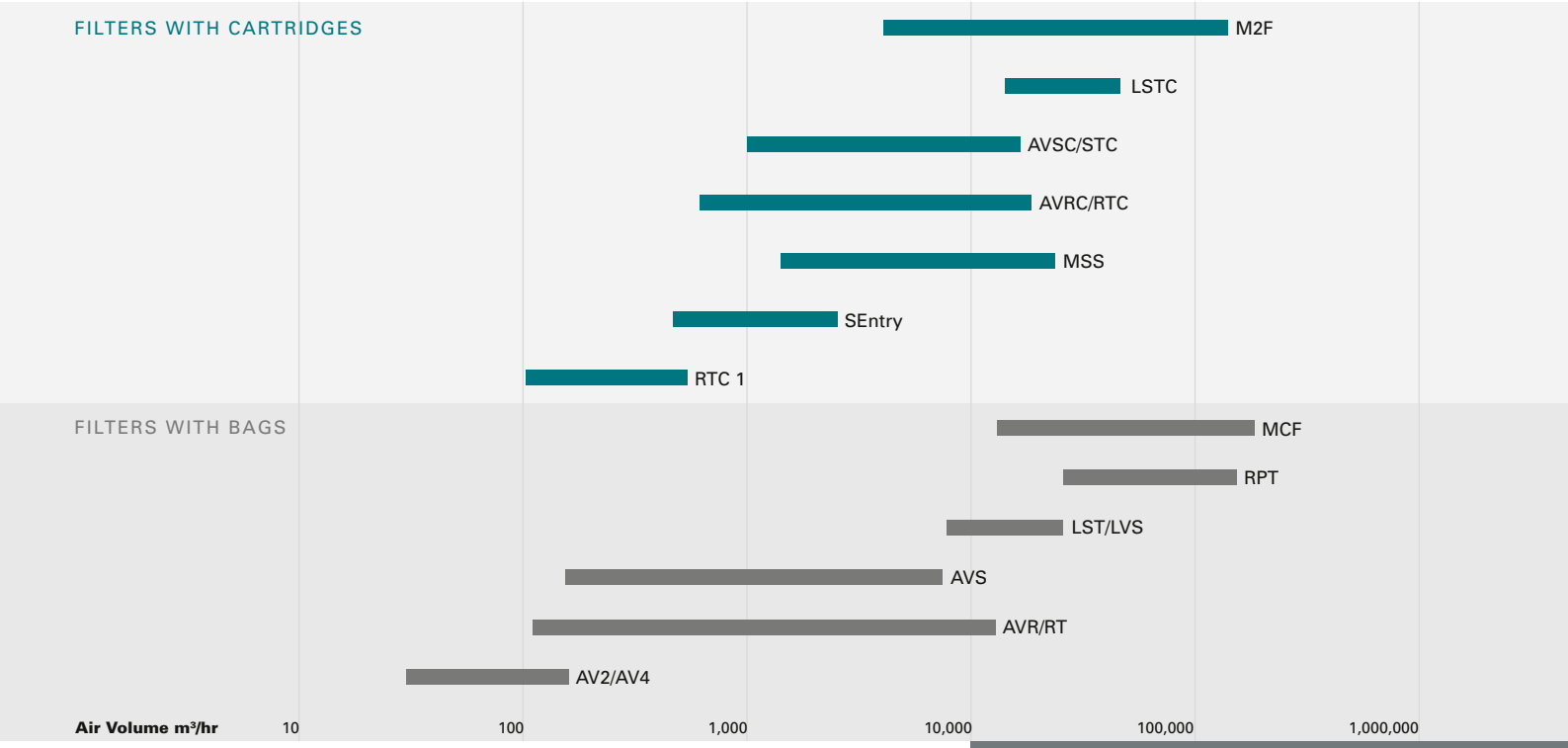


The key to specifying the correct type and size of filter for a particular application is experience. Schenck Process, utilising the combined knowledge of group members Mac Process in the USA and Clyde Process in the UK can call upon over 40 years of test work which has provided detailed sizing information for over 600 dusts.

Furthermore, if data for a particular dust is not listed, then Schenck Process can test it in their state of the art Filtration TestCentre.

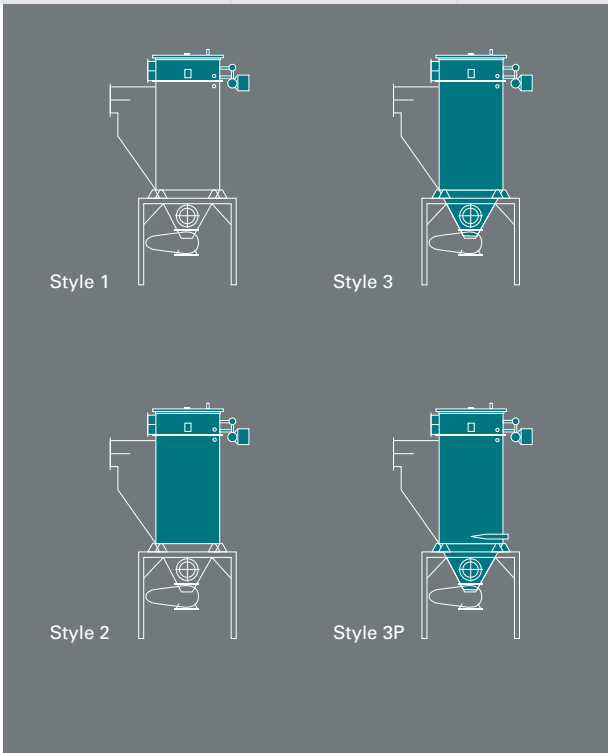
Solutions for all air flows.

The right filter for every application.



To suit process and application conditions square, circular of rectangular filter housings can be offered in carbon or stainless steels. Most filters can be supplied with either side or top mounted access doors to facilitate removal of filter media for inspection or replacement. The majority of the filters use externally supplied high pressure compressed air to clean the filter media, with the exception of the MCF model, which uses an integral medium pressure blower giving the benefit of reduced energy consumption.

The products are available in a number of different Styles to suit both client and installation requirements. The base format is Style 1 with a clean air plenum, reverse jet cleaning system and filter media connections. Style 2 includes the addition of the main filter body and Style 3 includes the addition of both the filter body and discharge hopper. If the unit is required to function as a product receiver in a conveying system, then that option is available as Style 3P.



MCF dust filters: the economical solution.

Designed green. Built strong.

As the cost of energy continues to increase, plant managers are continually looking for ways to reduce power consumption. Within the Schenck Process filter portfolio is the unique MCF 'Powersaver', a filter that can save up to 50% of operational costs by using medium pressure air at only 0.5 bar for the cleaning cycle. The air is provided by its own blower, therefore no plant compressed air is used, potentially freeing up the expensive to produce air for other applications.

- Heavy duty carbon or stainless steel construction
- Factory assembled ladder, safety cage, and service platform
- Walk-in clean air plenum with lifting lugs
- Hinged service door for easy access
- Direct-drive rotating surge tank, diaphragm valves, and distribution arm powered by an explosion proof motor
- Mechanically controlled medium pressure air cleaning mechanism discharges air directly over filter bags
- Topside cage and snap-band bag removal – no tools required
- Self-contained positive displacement pump supplies all the air that is required for filter cleaning
- Stainless steel explosion vents as standard

Mac2Flo Dust Collector

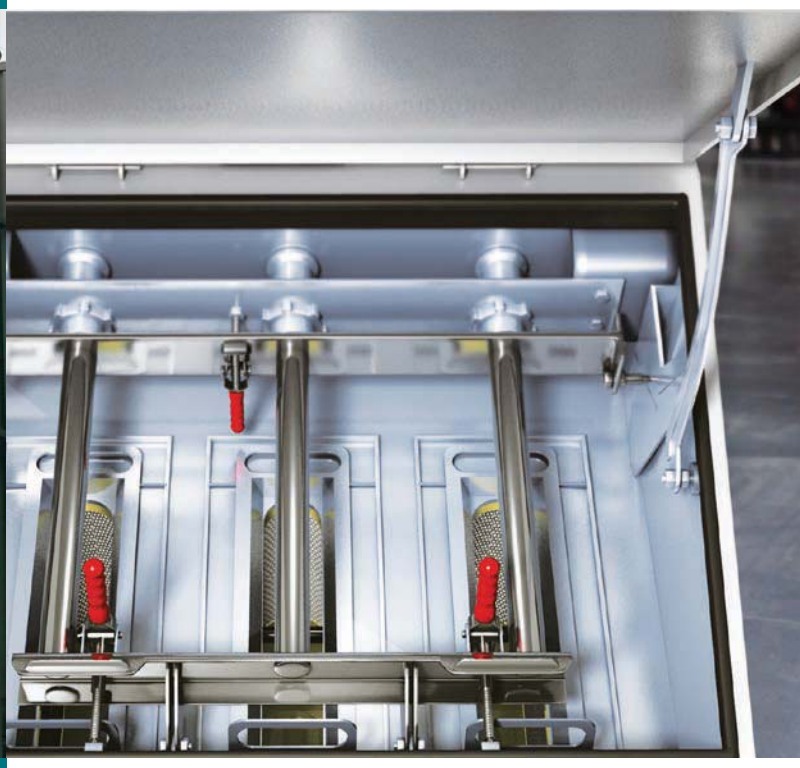
High filtration efficiency for the finest dusts

The MAC2Flo provides cost effective filtration of the finest submicron dusts. The unit operates using the down flow principle which guarantees effective settling of the fine, light dusts with low terminal settling velocities. As each filter cartridge can contain upto 23.5 m^2 of media, large filtration potential can be housed within a relatively compact housing

- Modular design reduces initial capital cost and makes future expansion easy.
- Tool-free cartridge removal reduces on-going maintenance costs.
- Reduced set-up time lowers installation costs.
- Reduced compressed air requirement saves energy.
- Compact design takes up less floor space.

MSS SpaceSaver

The biggest improvement in dust collection is also the smallest.



The MSS Spacesaver is a low profile, compact filter which is ideal for installations where there is a need for high efficiency dust collection, but limited footprint space or headroom is available, and for areas that are not easily connected to central dust collection systems.

- The patented cleaning mechanism thoroughly pulses the cartridges using directed airflow.
- Saves energy with more efficient use of compressed air
- Cartridge life is also extended to reduce consumable costs
- Maintenance is completely tool free for changing the cartridge
- Unique blowpipe configuration speeds up the maintenance routine
- Quick release handles rather than conventional fixings.

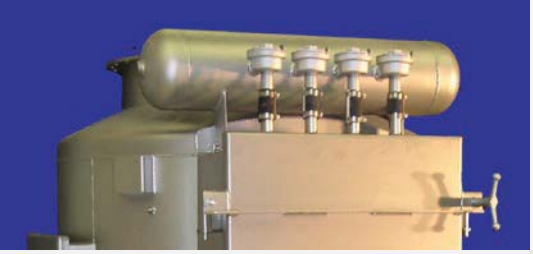
Pulse Jet Filters

An extensive range of product and application options

Schenck Process Pulse Jet filters can be used in a wide variety of air filtration applications. There are nine different products in the Pulse Jet range for a wide range of air volumes, access positions and air inlet arrangements. All models incorporate the same compressed air cleaning technology, reliable components and high quality construction.

As part of the Aftermarket service and spares package, Schenck Process are able to supply new and replacement air filtration bags, cartridges and ancillary parts for the full range of filter products. Schenck Process filter media is designed to ensure the most efficient performance of the filter unit and it is recommended that Schenck Process branded filter media is continually used to maintain this high performance level.

Replacement bags and cartridges for other manufacturer's filters are also available. Contact the Aftermarket sales team for further details.



SEntry (Side Entry)
The Side Entry horizontal cartridge filter is designed for low headroom applications.

- Easy maintenance and accessibility even there is confined space
- Product eliminates the need for a ladder and/or safety cage
- The rectangular envelope style cartridge design minimizes product retention on the filter cartridge
- Wide pleat arrangement allows for high air-to-cloth ratios
- Can be explosion vented through the roof without increasing the cross sectional area of the filter unit

AVS/AVSC filters (Air Vent Square)
are bottom removal (below the tube sheet) filters.

- Style 2 type filters are ideally suited as a bin vent filter for storage tanks, work bins and surge hoppers
- Style 3 type filters can receive the dust through a hopper entry inlet and discharge the collected dust into a bin or through an airlock for dust disposal or recycling
- Can be customised for higher operating static pressures to meet specific application requirements
- AVS filters utilise bag media whilst the AVSC contains cartridge media

AVR/AVRC filters (Air Vent Round)
are bottom removal (below the tube sheet) filters and are capable of handling heavy dust loads.

- Style 2 type filters are ideally suited as a bin vent filter for storage tanks, work bins and surge hoppers
- Style 3 type filters can receive the dust into a bin or through a hopper entry inlet and discharge the collected dust through an airlock for dust disposal or recycling
- Can be configured with a pneumatic receiver section and receive product from a vacuum or pressure conveying system
- AVR filters utilise bag media whilst the AVRC contains cartridge media

ST/STC filters (Square-housing Top-removal)
are similar to the AVS filter but with top removal. The filter media is installed and removed through the clean air plenum of the filter.

- ST filters utilise bag media whilst the STC contains cartridge media

LST/LSTC filters (Large Square-housing Top-removal)
are similar to the ST filter but of a larger size. The filter media is installed and removed through the clean air plenum of the filter.

- The plenum can be designed to be a walk-in plenum so that filter media replacement and maintenance can occur in an enclosure.
- When the option of a walk-in plenum is not selected, hinged doors on top of the plenum provide access to the filter media.
- LST filters utilise bag media whilst the LSTC contains cartridge media

RT/RTC filters (Round-housing Top-removal)
are similar to the AVR filters but with top removal. Filter media is installed and removed through the topside, or clean air plenum of the filter.

- RT filters utilise bag media whilst the RTC contains cartridge media

RPT filters (Air Vent Rectangular)
are top removal filters. A rectangular bodied filter unit designed to handle high air volumes.

- Bags are removed vertically from the top clean section.
- Suitable for hazardous dusts as no access is required into the dirty side of the filter during bag changing.

LVS Filter (Large Vent Square)
are side removal filters designed to handle medium to high air volumes.

- Particularly suited for applications where headroom is an issue.
- Bags can be removed via an access door on the side of the unit.

AV-2 and AV-4 Filters
Compact square or rectangular filter designs.

- Available fitted with either two or four filters.
- Ideally suited for cleaning the air vented from rotary airlocks and surge hoppers.
- Suitable for venting small volumes of displaced air.

Air Filtration solutions for a wide range of industrial sectors

The range of Schenck Process air filtration and dust collection products are designed for a wide variety of industrial processes and are manufactured to be installed in a wide variety of industrial processes. The filters have been installed worldwide in the following typical applications:

- Chemical plants
- Pharmaceutical factories
- Food processing factories
- Sugar refineries
- Agricultural and grain processing
- Pet food manufacture
- Biofuels and biomass transport and storage systems
- Wood processing and board manufacture
- Iron and steel manufacturing industries
- Cement and gypsum factories
- Plasterboard manufacturing plants
- Pulverised and solid coal handling
- Ash handling
- Recycling facilities
- Paper manufacturing and converting

Process
Advanced
Service
System
PASS

Complete solutions for your requirements

Looking for after-sales solutions? Our extensive Process Advanced Service System (PASS) provides you with after-sales services – customised to your specific requirements.

The framework of our PASS program is designed with you in mind. With the guidance of our experienced after-sales team, you can create PASS packages comprising original spare and wear parts, various services and high quality components to meet your needs.

PASS is based on a modular principle – you can pick and choose any individual PASS product or a combination thereof. 4 categories help to easily find appropriate PASS products.

We would happily provide you with individual consultation, either as part of a PASS contract or on individual enquiry.

Whatever Full Service means to you – let's create it together!

Our PASS service categories

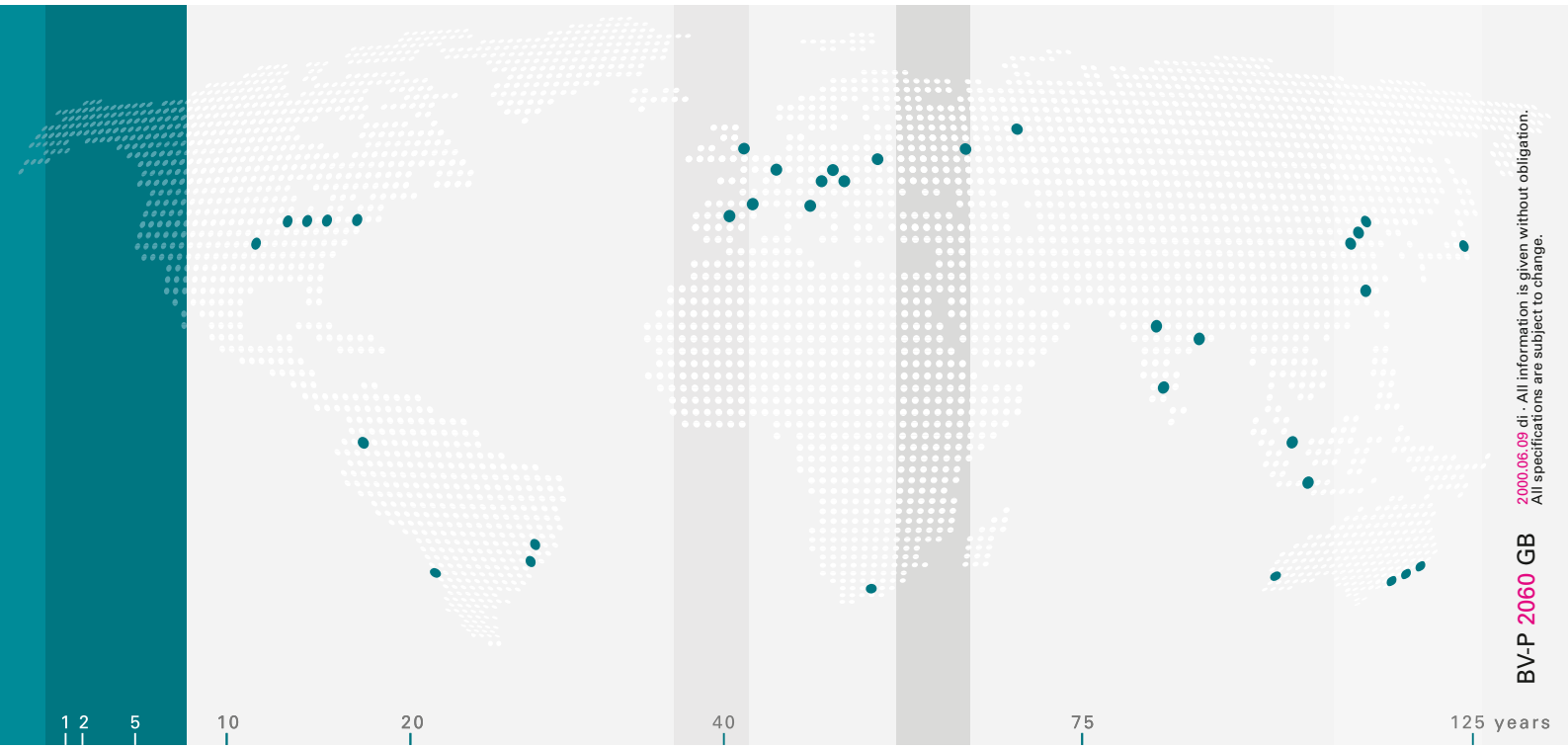
PASS Repair

PASS Inspection

PASS Management

PASS Support

schenck process



BV-P 2060 GB
2000.06.09 di · All information is given without obligation.
All specifications are subject to change.

Schenck Process is the global market leader of solutions in measuring and process technologies in industrial weighing, feeding, conveying, screening, automation and air filtration technology.

Schenck Process develops, manufactures and markets a full range of solutions, products and turnkey systems on the basis of combining process engineering expertise, reliable components and field-proven technology.

Schenck Process UK Ltd
Carolina Court, Lakeside
Doncaster, DN4 5RA, United Kingdom
T +44 (0)1302 321 313
F +44 (0)1302 554 400
enquiries@schenckprocess.co.uk
www.schenckprocess.co.uk

we make processes work