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Dustcontrol – for cleaner production processes

At Dustcontrol, we are not satisfied just selling products. We manufacture and customise mobile dust extractors and industrial extraction systems with very high levels of filtration. We offer a complete service package, including accessories and spare parts, so you can trust we will be there to assist you to focus on your core business. To help achieve an *efficient* production process, enable increased productivity, improved product quality and a safer work environment are our main goals. The simple truth is that everything runs so much smoother when you can avoid being stopped or disturbed by dust and other pollutants. Not to mention the increased air quality that is the result of professional dust extraction.

In short, Dustcontrol supplies mobile machines and stationary extraction systems to help companies all over the world to get cleaner production processes.

Our product range comprises mobile dust extractors for industrial and construction use, fixed extraction installations, peripheral equipment and accessories. Dustcontrol supplies a complete range of products and accessories for large and small companies in all kinds of industries. We also provide expert answers to the question: how can you capture and extract different kinds of particles and pollutants in the best possible way for your business?

DUSTCONTROL IN BRIEF

Number of employees:	approx. 130
Representation:	20 countries
Head office and factory:	Stockholm, Sweden
Founded:	1972
Owners:	Family-owned
Business:	Development, manufacture and sale of industrial dust extractors, construction dust extractors and centralised installations for source extraction and transportation of material particles, dust, fibres and fumes.

More than 35 years of experience

Dustcontrol was founded in 1972 on the basis of an idea for creating extraction systems to capture dust and other pollutants at source. Today, Dustcontrol has developed into an international industrial



player that supplies tailor-made solutions. Dustcontrol supplies solutions that can be applied in a wide range of industries. For example, we supply advanced clean room solutions for the pharmaceutical and electronics industries, mobile vacuum cleaners of all sizes for construction and hire companies, clean production workplaces for the automotive industry, and paper dust extraction systems from cutting processes in major printing works.

Technological competence you can trust

You can safely trust in Dustcontrol. Our sales organisation consists of experienced technicians with specialist skills within their particular areas of expertise. If you need a mobile solution, we will come to your premises and show you how it works on site. If you need a stationary installation, we can prepare and dimension the entire system to fully

match your needs. We can also take care of installation, final connections, document management and planning a service and maintenance schedule. In most countries, we have our own teams of qualified installers with in-depth knowledge of our products.

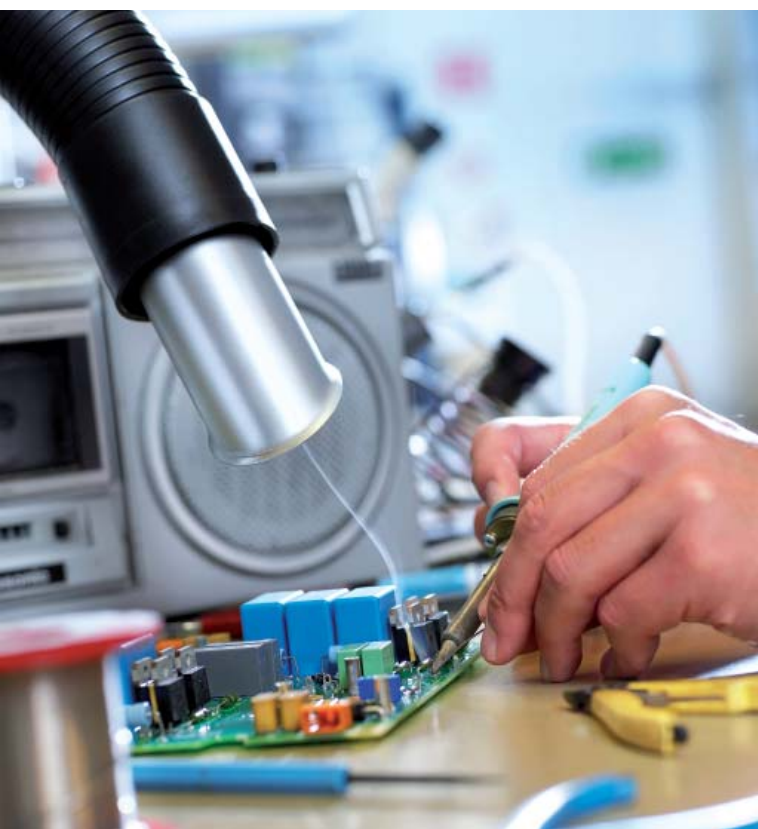
Dustcontrol works ceaselessly to improve accessibility, service and technological support. Our project managers also help to

train the personnel who are to work with our products and systems.

At Dustcontrol we are not trying to simply keep up with competitors, rather we always go the extra mile to create innovative solutions that provide better value for our customers. Our engineers constantly come up with new innovative products and refine our present product range to keep our competitive edge. We have our own production facilities, warehouse, sales-team, and research & development team in one place, and employees are involved in cross-functional teams. By collaborating we keep improving our processes and products.

Removing unwanted material at the source before it affects production efficiency or causes health problems is exactly the right thing to do. With a Dustcontrol solution, you can extract dust, chips, oil spills and other unhealthy substances at their source and get them transported to where you want. Our machines also do the job at a very high standard level of filtration. All our machines are equipped with a fine filter and a HEPA filter that clean the air exhausted to 99,995%! The highly efficient filters also have a long lifetime, which gives low filter costs.

"A Dustcontrol solution contributes to better health, a cleaner environment and a more efficient production"



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About Dustcontrol

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Market Segments

Products and solutions from Dustcontrol are used in a wide range of industries. However, all demand efficient production and a clean and safe working environment. Dustcontrol focuses its development and marketing resources on the following market segments:



Construction & Rental: Mobile dust extractors, liquid extractors, air cleaners, pre-separators, suction casings and semi-mobile systems.



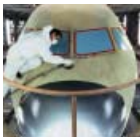
Carpentry & Education: Small central vacuum systems, permanent air-cleaners, and cleaning accessories for health hazardous wood dust.



Pharmaceutical: Stainless vacuum systems, clean-rooms, and customised solutions for a wide range of materials.



Printing Press: Central vacuum systems for source extraction of paper dust from printing machines. Dustcontrol has a long experience in customised suction casings for this industry.



Aerospace & Composite: Central vacuum systems, mobile dust extractors, pre-separators, and casings for source extraction to capture health hazardous glass and carbon fibres.



Waste Management & Heating Plants: Material transport systems of pellets and central systems for cleaning and material handling.



Food Processing: Central vacuum systems, customised suction casings for source extraction from e.g. packing machines.



Metal: Big and small stationary vacuum systems for separation and recycling of liquid and steel dust, material transport, source extraction of dust/smoke, and general cleaning.



Bakery: Small central vacuum systems, permanent air-cleaners, and cleaning accessories for health hazardous flour dust.

Environmental Policy - ISO 14001

Dustcontrol aims to minimise the environmental impact of their products and services by:

- Adhering to valid legislation and constantly improving our environmental effort
- Meeting customers demands for environmentally friendly products and services
- Raising and maintaining a good understanding of environmental matters amongst our colleagues
- Assorting refuse by type and minimising its quantity
- Aiming to reduce the environmental impact of transport
- Judging our suppliers products and services and changing to environmentally friendly alternatives where practical
- Using environmentally friendly packaging
- Minimising the use of chemicals and changing to environmentally friendly alternatives where practical.

Quality Policy- ISO 9001

Our quality corresponds to demands made by our customers. This involves the quality of products services as well as the quality of deliveries. Our quality management system is ISO 9001 certified. This means that customers can expect a consistent quality of all our products. ISO 9001 is a quality standard that is recognised and respected throughout the world.



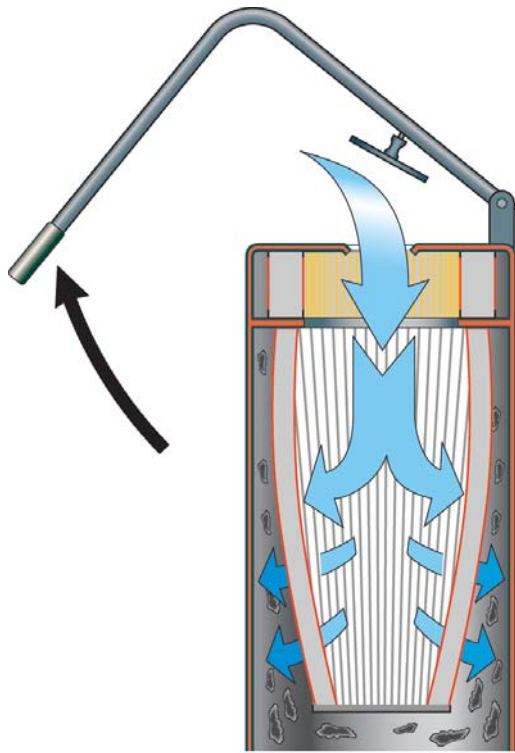
Source Extraction

Source extraction is the capture of pollutants directly at the source, for example a suction casing on a grinder. Improve the production environment and avoid respiration of hazardous particulate.



Pre-separators

For occasions when large quantities of material are to be transported, a separate preseparator should be used.

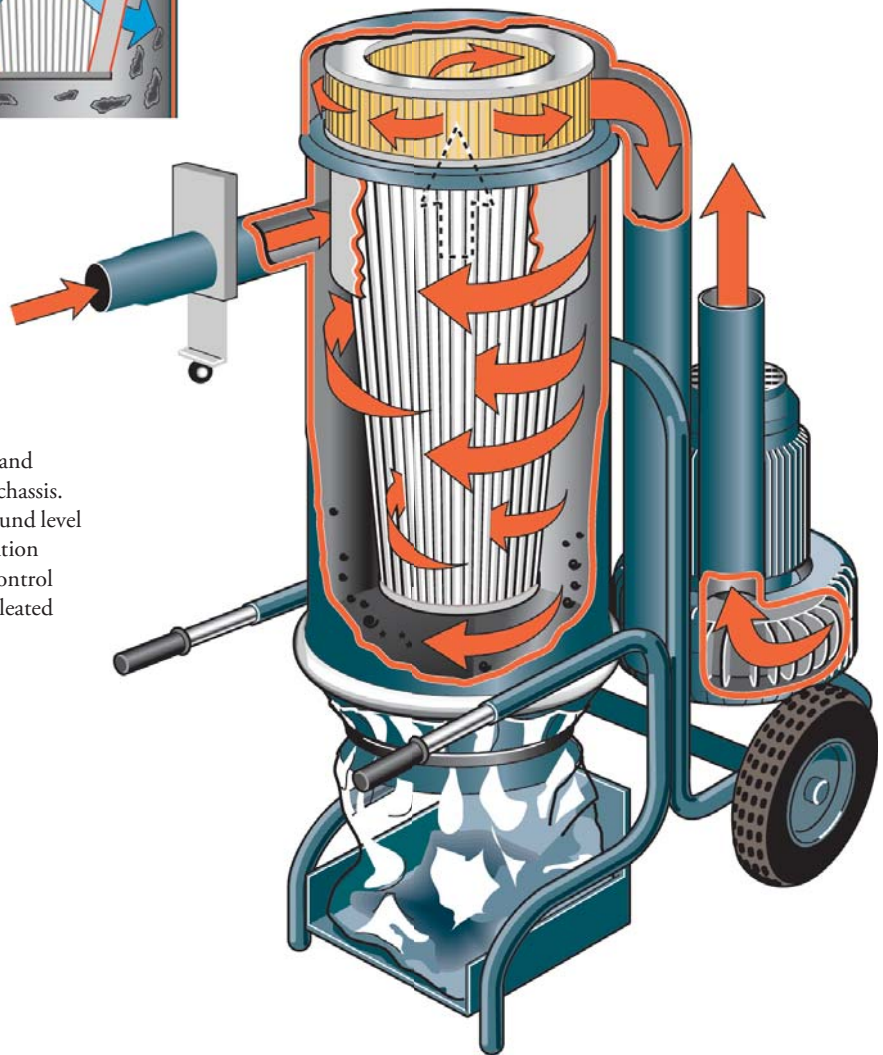


Pulse Clean

Effective reverse pulse cleaning of filters in combination with them being of a conical pleated cartridge design results in compact units and very long filter life.

Dust Extractor

Our dust extractors consist of a filter unit and vacuum producer unitised on a common chassis. Selection is based on capacity required, sound level and collection method desired. Dust filtration is always according to the patented Dustcontrol cyclone separation with vortex tube and pleated cartridge filter.



Capture Dust with Source Extraction

- Minimises airborne dust creating major health and safety advantages
- Increased productivity with no waiting for dust to clear
- Massive reduction in clean up time and expense
- Safer working with no dust to restrict operators vision
- Ideal for sensitive environments, for example schools, shops, hospitals, I.T.
- Improved productivity with co-workers uninterrupted by dust
- Reduced preparations and screening of work areas
- Greater customer satisfaction and minimum interruption
- Ease of use and increased life of power tools and equipment



All dust on construction sites is a health hazard in the long run. Some types of dust are also hazardous following short exposures. Today's construction business needs skilled and committed staff. To select a profession within the construction industry should not imply risking your health. Therefore measures to minimize dust concentrations on construction sites ought to be a matter of course.

Measures do exist. By equipping all tools with suction casings and connecting them to efficient dust extractors, dust concentrations can be reduced considerably. The suction casing captures the dust before being released in the air, the air that the construction worker breathes daily.

Vacuuming with a highly efficient dust extractor, equipped with HEPA filters to prevent dust release, will improve the cleaning operation. If you sweep the dust it will whirl up once more. Consider the fact that it is exactly this airborne dust that is hazardous for human beings!

Dust extraction is a question of quality in construction methods as well as in life.





Everything is vacuumed up, not only dust

Dust extraction is about quality both in construction activity as well in life. JM is one of the leading developers of housing and residential areas in the Nordic region. Operations focus on new production of homes in attractive locations, with the main focus on expanding metropolitan areas and university towns in Sweden, Norway, Denmark, Finland and Belgium. JM has about 2 200 employees and 12 billion SEK revenue.



JM is currently carrying out a big construction project at Långbro Park, Stockholm, Sweden. They have chosen to rent a semi-mobile system and a few mobile units from Cramo, a machine rental company. The semi-mobile system consists of a central unit, pre-separator, and a tubing system. The module parts of the semi-mobile system are developed for easy build up and dismantling.

“Our big environmental problem is all the dust that is created during milling and grinding. With Dustcontrol’s construction dust extractors we reduce the problem”, says Jonas Nykvist, local manager. He adds: “everything is vacuumed up, not only dust but also small nails, screws and other waste”.

Profitability in a construction project depends on the right tools, materials and working methods. It may sound obvious, but in practice you need experience, knowledge and planning. Renting or investing in a high quality dust extractor system is well worth the initial cost. Long-term health benefits, motivated employees and increased efficiencies are the payoffs.

“Efforts to minimise the dust content on a construction workplace should be obvious”, says Jonas Nykvist, local manager at JM. One of his tasks is to secure a good working environment for the employees.



Jonas Nykvist, local manager at JM:

“It is my duty to make sure we have the right tools”

He continues:

“It is important to look after the working environment. Not all people in the construction industry can work on into old age without any health problems. As a local manager it is my duty to make sure we have the right tools”.

Large quantities of material can be transported away by the suction system. By putting suction casings on all machines and connect them to Dustcontrol’s dust extractors the dust levels in the air is being reduced to a minimum. For dry concrete grinding machines, source extraction is practically a must since a huge amount of dust is generated.

JM use Dustcontrol’s semi-mobile system and a few mobile units. The choice was very simple – they wanted a effective, robust and reliable system. On the first floor you find a pre-separator, which collects the biggest particles. The pre-separator is designed like a wheelbarrow, which makes it easy to empty. Dustcontrol’s semi-mobile system with a wheelbarrow pre-separator is a proven and widely accepted solution.

“At Dustcontrol there is a continuous development of their products – it is very positive”, says Jonas Nykvist.

The suction source is the DC 5800c, 9.2 kW, which is located in the basement. When the work is finished in a house, you just move the whole system to another house, very easy to handle and very flexible.



“Dustcontrol’s products are reliable with long life spans”, says Bert Andersson, team supervisor at the construction site.



Clean houses; dust free and secure living environment!

Arne Jörgensen has secured the contract for changing the plumbing and reconditioning of bathrooms and kitchens in a large number of flats in Bandhagen owned by Familjebostäder.



Hilti 905 with a suction casing from Dustcontrol.

The company is now working with the semi mobile dust collector system to further reduce the environmental impact. This system can be used directly on-tool throughout the processes of floor breaking and floor grinding but also for general vacuum cleaning. The DC AirCube is used at the same time to complement the on-tool dust extraction. During the entire refurbishment period, the tenants can stay in a dust free environment. The clean up process is easier and quicker and the real-estate company therefore, saves money.

The DC 5800a PTFE 9.2 kW P can be used as the vacuum producer and located in a convenient position out of the way, such as in the basement. A hose is taken from the vacuum producer, up through the stairwell. On each floor there is a connection point to plug in the hose for vacuuming, from the floor grinding machine or descaling hammer.

On the descaling hammer you can use Dustcontrol's rubberised suction casing. A vacuum relief valve is used to allow air into the system when all working points are closed. The dust can be collected directly at the operation and is conveyed by the hose system to the central dust extractor. The smallest and most dangerous dust particles will be collected in the filter system of the central dust extractor.



Grinding machine with a suction casing and the aircleaner DC AirCube as back-up.



You can connect to the central vacuum system on every floor.



DC 5800a PTFE, 9.2 kW P.



Dustcontrol has installed 18 stationary vacuum systems at ITT Flygt's in Emmaboda, Sweden



ITT Industries has over 45 000 employees worldwide and 50 billion SEK revenue. ITT Flygt is part of ITT Industries, Inc. ITT Flygt is a leading producer of submersible pumps and mixers. The ITT Flygt factory in Lindås Emmaboda, Sweden has approximately 1,600 employees and produced 99,000 pumps in 2006.

Dustcontrol have installed 18 stationary vacuum systems at Flygt's premises in Lindås, Emmaboda. The system is fully monitored by computers and the level of suction is adjusted on demand to save energy. If someone for example forgets to turn off the system an alarm will alert the service technician. Furthermore, to save energy and heating expenses, the hot air from the vacuum system is pumped back into the premises in the winter.

Jan Petersson is a responsible for service work on ITT Flygt's vacuum and ventilation systems. He has installed Dustcontrol's new rubber tubing system for trial in a high-load application. It has lasted longer than he expected and now he wants to install more of the rubber tubing system parts from Dustcontrol.

"Dustcontrol's module parts are good quality and are easy to install and service" says Jan.



Jan is seen changing the plastic bag on a pre-separator.



Hot air from the central unit is pumped back into the premises in the winter to save heating expenses.

Dustcontrol's hard wearing tubing components

Now it has been proved! Dustcontrol's new hard-wearing tubing system can handle even the worst in wear-and-tear. After a 7 month intensive test at ITT Flygt in Emmaboda there was no significant wear to be detected. Thanks to a plate in the bend, the wear is distributed to a bigger area and at the same time the new rubber material has a smoothing effect.



Source extraction from hand held tools: "It's very effective; plastic, paint, and gases disappear into the hose," says Jan Petersson, service technician at ITT Flygt.

Dustcontrol have much experience in source extraction and at ITT Flygt we have equipped their hand held tools such as cable-peeling tools with suction casings to collect hazardous gases and left over materials.



Source extraction from fully automated machines: A Dustcontrol pre-separator is used to separate the liquid from the metal. "The liquid is re-used, the mixed metal is sent off for recycling while the pure metals are used in our own foundry", says Jan Petersson, ITT Flygt.



It is important to clean the threads of the finished parts before proceeding to the next step in the production process.

Material Transport

In the foundry new parts are sand blasted. It is a fully automated process: Materials are collected in the small container, vacuumed to the top floor and then transported through a peristaltic airlock down to big containers outside. This is a tough application since the machine operates 24 hours a day. The pipes have special reinforcements to withstand the sand and metal that blasts through the pipes at approx. 20 m/s.

ITT Flygt mainly use Dustcontrol systems for:

- *Source extraction*
- *Cleaning*
- *Material transport*



Small container.



Peristaltic airlock.



The big containers outside are frequently changed by a truck without having to stop the automated production process. The material is recycled.

Orion-Pharma

Orion Corporation is a Finnish company listed on the exchange, which develops, manufactures and markets pharmaceuticals, active pharmaceutical ingredients and diagnostic tests for global markets.

Orion's clientele consists of healthcare service providers and professionals, such as doctors, pharmacies, hospitals, healthcare centers, clinics and laboratories. In the pharmaceutical industry there is a high level of cleanliness required on both surfaces and in the air.

"We need effective suction systems to ensure the quality and capacity in the production as well as the worker's health. We use Dustcontrol's system mainly due to their excellent characteristics. The solutions from Dustcontrol are effective, reliable in service and long-lived, which provides a superior total economic solution. The Customer Service at Dustcontrol is also something we as customers have appreciated" says Ari Urpinen, operation technician.



*Ari Urpinen, operation technician:
"We need to ensure the worker's health"*



Pharmaceutical industry



In all pharmaceutical industry, as in electronics manufacturing, it is necessary to protect products from what is commonly called particle contamination. Within the pharmaceuticals industry this is important for several reasons. Even particles that are invisible to the naked eye can carry bacteria. These can deteriorate the transparency of liquids or block capillaries. The solution is to allow the sensitive parts of manufacturing to take place in special environments cleaned of airborne particles. These clean rooms are graded into different cleanliness classes, depending on manufacturing requirements.

Time for Dustcontrol

The clean room needs an efficient and reliable system for collecting and removing dust and other particles. Just the presence of a human being in the clean room is enough to free microscopic particles. Dustcontrol has many years experience of building the high standard of system that are required in these clean environments. The systems are based on well proven techniques including source extraction and they can be entirely customised according to the client's specifications.



Airborne particles

Can be tiny, but still carry e.g. bacteria. Working in a clean room necessitates special equipment, which has to be antistatic and must not let in any small human fragments.

Complete accessory range

Dustcontrol offers a complete range of different cleaning equipment, hoses, connections, nozzles etc., which can easily be connected to the system. Both in the clean room and other premises.



Aerospace and Composite



Fibreglass has many unique qualities and is used in an increasing number of industries such as automotive, marine, aviation and wind turbine. The increased use of fibreglass has resulted in problems for personnel as well as production itself.

Significant health risks

“Fibreglass dust makes you itch just by looking at it” – but the problem is greater than that. Fibreglass dust has a low weight and stays in the air for a long time. It penetrates into the trachea and lungs and stays there causing allergies, asthma and cancer. OSHA and the European Union mandate limits on how much airborne dust is permitted within the operators breathing zone. The World Health Organization has classified ceramic fibres and other special fibres as possible contributors to cancer.

Disturbances in electronics increase costs

In addition to the negative consequences of health, the fibreglass dust causes disturbances in computers and other production equipment. Visibility for the operators is decreased in many working situations and

in most companies the cost for cleaning has increased.

Fortunately there are efficient solutions to the problem

With 35 years of experience, Dustcontrol offers a unique know-how about source extraction that extracts, filters and removes the dangerous particles. With source extraction, the dust is collected where it is created. The result is a cleaner working environment and in many cases increased product quality because of less contamination in production.

Right extraction system contributes to health and economy

- Improved health through less fibreglass dust and other particles in the air.
- Safer work and increased productivity since there is no dust decreasing the operator's visibility.
- Increased productivity due to less disturbances on other activities.
- Eliminates need for dedicated grinding room.
- Longer life time for tools and electronic equipment.
- Reduced time and costs for cleaning.
- Less disturbances due to dust in computers and electronics.



Nautor Swan, manufacture ocean sailing boats in Pietarsaari, Finland

Five fixed systems from Dustcontrol are installed in Nautor Swan's factory. Dustcontrol's products are used mainly for cleaning but also for grinding with hand held power tools and suction casings. 7 open outlets can be used simultaneously.

Dustcontrol's installation includes a RAF 2503, S 34000, F 20000 and a tipping container.



"We are satisfied, that's why we have ordered products from Dustcontrol ever since 1988. The best thing about Dustcontrol is the reliability. The systems haven't had any problems and the first stationary system that was installed 1988 is still in use."

Bengt Nyström, Nautor Swan



Airbus

Very strict environmental requirements combined with advanced technical solutions made the manufacturer of Airbus, choose solutions from Dustcontrol for the German installation in Mühlenger Loch outside Hamburg.

The suction systems are designed for continuous operation. The deliveries covered complete installation of pneumatic, mechanical and control systems. Special emphasis was put upon EX protected installations. Three of the four installations have been purpose-built for dust explosion risks, complying with a k value of 180 bar m/sec.

In addition to offering a dustless environment for such tasks as drilling, milling and grinding, the suction systems are used for cleaning tasks and extraction of residue materials during riveting and gluing works. Also sealant materials and chrome residual products are involved. The materials which are extracted are aluminium, GLARE(GLASS-REinforced Fibre Metal Laminate), carbon fibre, fibreglass, epoxy, polyester, aluminium alloys and titanium.



Dustcontrol was entrusted with supplying four stationary systems with on-tool extraction.





Printing



A real problem in the working environment of many printing works is the paper dust and strips of paper which arise during the printing process. The whirling dust is both unhealthy and troublesome for the personnel. By equipping the printing presses with extraction points consisting of a number of suction casings specially designed for the machines the dust problem can be eliminated. A number of cleaning points can also be connected to the spot-extraction system.

The Dustcontrol system can also be used as a separate “blowing system” to make the paper “flow” over the turning rolls.

Dust: Small but devastating

Dust and fibres adversely affect the quality and profitability of the newspaper. Dustcontrol solutions improve the production process with source extraction for slitters, folders and cleaning operations.

Play by the rule

Dustcontrol has provided solutions to countries world-wide and met the high standards required by the printing press market. The solutions are relatively simple as we follow the laws of physics to guide our design. Experience and skill enable Dustcontrol to customise the system to meet the specifications and requirements for each installation.



Newly built incineration plant choose Dustcontrol

Dustcontrol has acquired an important new customer in Austria. TBA Arnoldstein is a modern incineration plant in Kärnten near the border to Italy and Slovenia. TBA Arnoldstein combust 10.7 tonnes of garbage every hour which makes 80.000 tonnes every year.

A central system delivered by Dustcontrol takes care of the internal environment, mainly cleaning around the furnace and filtration of smoke gas. Active coal is also transported and filtered in the system.

Austria is known as a forerunner when it comes to environmental issues with strict environmental legislation and hard regulations. With modern techniques, a couple of incineration plants have now been built as a step towards improving the environment.

Dustcontrol has actively contributed to improving the internal environment of these plants by introducing a centralised suction system. It's a comprehensive system, 800 metres of tubing, a total power of 22 kW and 64 different outlets. The installation is built according to the ATEX directive to minimise the risk of dust explosions.



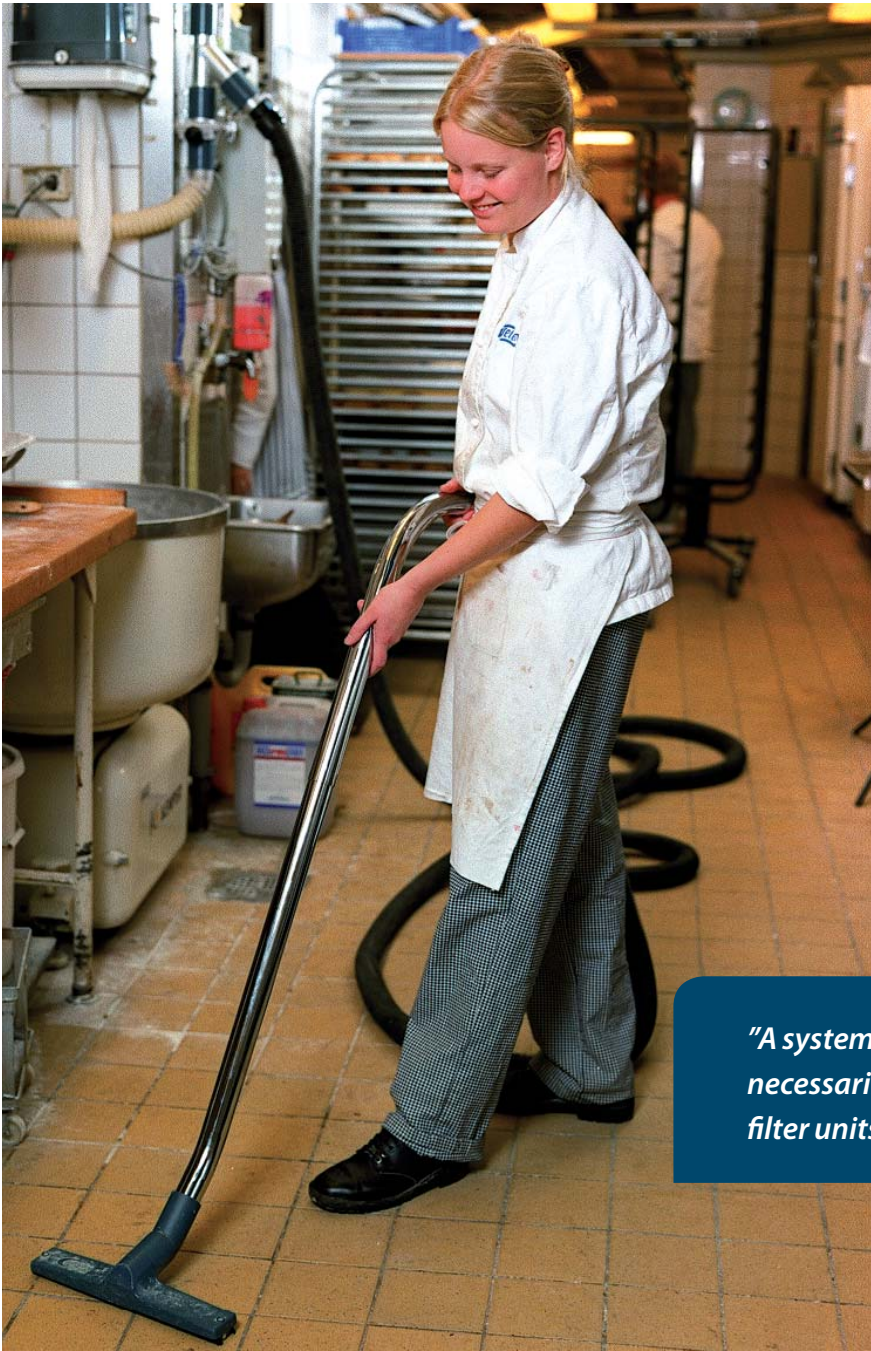
Kärntner Restmüllverwertung GmbH.

Flour is unhealthy for our Tracheas

You might think that flour is quite a harmless material in comparison with dust from asbestos or quartz. Recent research has shown however, that flour is unhealthy for our tracheas. Today we have airborne limits for many different types of dust created from materials in the working environment, including flour. Using our experience of dust extraction in dangerous environments, we also design systems for bakeries.

A suction casing is placed at each area where flour is used. In that way the pollution is captured directly at the source instead of going into the air. All equipment and fixtures are frequently cleaned from flour and dust with highly efficient vacuum cleaning accessories. The result is a cleaner and healthier working environment.

Investing in a system from Dustcontrol does not necessarily mean big fans and heavy filter units. The bakery shown here uses a central unit of 2.5 kW with a size of 76 x 40 cm's on the floor and height of 150 cm's. It's a small machine with high quality.



"A system from Dustcontrol does not necessarily mean big fans and heavy filter units"

Now the air is fresh and clean

Jan Delselius is manager at Delsilius Bakery and café in Gustavsberg, Sweden. They use a DC Aircube and a DC 3800c stationary package to combat the dust.

“It’s perfect, it works very well. You notice a big difference in the air. The

DC AirCube is timer operated. When you show up in the morning the air is clean and fresh, it is also easier to keep the work place clean. We had a lot of problems with flour dust before, now things are totally different. I think everyone notices that, especially those who suffer from allergies.”



Jan Delselius

4.1 How to Choose a Dust Extractor

Dust Extractor Selection Advice

1. Capacity/Weight

Check the capacity of the unit in relation to its weight and portability. The motor power does not determine capacity, but rather airflow and vacuum generation ($\text{m}^3/\text{h} \times \text{kPa}$) available to the operator (normally at 10–20 kPa). The lower the unit weight for comparable capacity, the easier the unit is to move and use.

2. Material Handling

Dust, bulky materials, chips and strips can be collected and transported with vacuum. When the material volume is large, rational handling saves time and money. Ergonomic handling of the unit and collected material is also important. Likewise the design should minimize the possibility of dust contamination during collection bag and filter changes. The dust collected in the system should not be released during these activities.

3. Sound Level

Even in environments where the sound level is not considered harmful, remember that each additional source increases the overall level. Compare the sound level rating of the unit with measurements from the subject environment. To have a zero net gain, the sound level of the unit should be at least 5 dB(A) below the ambient level.

4. Filtration

Choose the filtration system so the unit does not lose capacity after several minutes of use. A Dustcontrol dust extractors separate the dust in three inter-related steps:

- 1. Separation of coarse material in the cyclone** – A good quality cyclone has the right dimension relative to the effect of the motor. Generally, the longer the cyclone, the better.
- 2. Fine filtration** – The fine filter protects the HEPA filter and is cheaper to replace. To extend the life of the HEPA filter, Dustcontrol recommends that you replace the fine filter frequently. A conical and pleated filter cartridge achieves the biggest filter area/best airflow of any other filter designs on the market. The machine should also have a filter indicator warning light and an effective filter cleaning system. For some applications such as concrete floor grinding, you need a PTFE filter.
- 3. Micro filtration** – Do not compromise your health, it is possible to achieve close to 100 % filter efficiency. When the air is blown back into the working environment a HEPA H13 filter is strongly recommended. If elimination of hazardous dust is the target, then why blow it back into the working environment?

5. Applications

Concrete Dust

Tough applications, such as concrete grinding, demand a lot from your dust extractor and filter. Since there are high volumes of very fine particles, you may need a PTFE filter. The DC5800 with PTFE filter are the most suitable dust extractors for this type of work. A pre-separator is also recommended for big floor-grinding machines.

Liquids

All Dustcontrol's dust extractors can be used for vacuuming liquids in smaller quantities. However, Dustcontrol also offers a dedicated liquid extractor for e.g. concrete coring.

Metal Chips

A steel container is preferred when vacuuming sharp items such as metal chips. All dust extractors can be ordered with a steel container.

Hazardous Materials

Special precautions must be taken when dealing with hazardous materials such as silica dust and PCB (health hazardous chemicals). Firstly, a machine with at least a HEPA H13 filter is a must. Secondly, you need suction casings for your machines to avoid hazardous dust getting airborne. Thirdly, an additional air-cleaner is required to clean the air in your working environment. Lastly, protect yourself with mask, eye-wear, and protective clothing. Dustcontrol's DC 2800 H Asbestos is based on the DC 2800 but equipped with the right accessories for removing asbestos. Don't compromise your health!

Explosive Environments

Not only liquids or gases can be explosive. Also very fine dust particles mixed with air can be explosive. A tiny spark from a static charge or a spark from an electrical motor can set off an explosion inside a dust extractor. ATEX is a European directive that specifies how to deal with explosive environments. It classifies equipment groups and categories to present guidelines on how to identify risk areas and how to handle each area of a production line. Dustcontrol's EX product line achieves the requirements of the ATEX Zone 22 standard.

6. The Right Size

Two things determine the most suitable dust extractor required for a given application:

Firstly, the size of the suction casing/nozzle, combined with the type of operation, determines the required airflow. In turn this influences the choice of a suitable dust extractor, taking into account the filter area and the dimension of the inlet.

Secondly, the longer the hose and pipe-runs, the greater the pressure drop in the system will be. Greater pressure generation is required from the dust extractor when handling large quantities of material (heavy cleaning, suction lance etc.)

Type of work

- Hammering machine
- Tiger Saw
- Diamond saw
- Drilling
- Small die grinders
- Compass saw
- Depressed centre disc Ø125
- Cutting disc Ø125
- Wall grinder Ø125
- Sanding disc Ø125
- Orbital machine
- Cleaning Ø38
- General cleaning
- Welding, small extraction point

A

System

Ø38 5 m



Ø38 2 m
Ø50 5 m



Ø38 2 m
Ø50 5 m



- Depressed centre disc Ø230
- Cutting disc Ø230
- Chasing disc 2 x Ø150
- Chipping tool
- Floor grinding Ø400-500
- Descaling tool
- Straight grinder
- Circular saw
- Tiger saw
- Cleaning Ø50

B

Ø38 2 m
Ø50 5 m



Ø50 25 m



Ø50 30 m



DC 1800
DC 2800c
DC 2800c
Rental
DC 2800a
DC 2800 H
Asbestos

DC 3800c turbo
DC 3800i
DC 3800a
DC 3800c
DC 3800 TR S
DC 3800 Stationary
DC 3800c Twin
DC 3800c Twin turbo

DC 5800c/a 5 kW/PTFE
DC 5800i 5 kW
DC 5800i 7.5 kW 60 Hz
DC 5800 TR
DC 11-Module 5.5 kW

DC 3800c turbo
DC 3800i
DC 3800a
DC 3800c
DC 3800 TR S
DC 3800 Stationary
DC 3800c Twin
DC 3800c Twin turbo

DC 5800c/a 5 kW/PTFE
DC 5800i 5 kW
DC 5800i 7.5 kW 60 Hz
DC 5800 TR
DC 11-Module 5.5 kW

Dust Extractor



Up to 4 from section A
3 from section B

2 from section C
1 from section D

- Floor grinding more than Ø500
- Grinding disc Ø300
- Builder saw Ø400
- Depressed centre disc Ø300
- Suction lance Ø76
- Cutting disc Ø300
- Concrete milling tool
- Cleaning Ø50

C

Ø50 15 m
Ø76 50 m



DC 5800c/a 5 kW/PTFE
DC 5800i 5 kW
DC 5800i 7.5 kW 60 Hz
DC 5800 TR
DC 11-Module 5.5 kW

Ø50 7,5 m
+ Preseparator



DC 5800c 9.2 kW S
DC 5800i 9.2 kW S
DC 5800c 12 kW S 60 Hz

Ø76 50 m
+ Preseparator



DC 5800c 9.2 kW S P
DC 5800i 9.2 kW S P

Suction Lance Ø76

D

Ø76 7.5 m
+ Preseparator



DC 5800c 9.2 kW S
DC 5800i 9.2 kW S
DC 5800c 12 kW S 60 Hz

Wet vac

E

Ø38 5 m



DC 2800w

Type of work

System

Dust Extractor

Classification of dust extractors and HEPA filters

Dust extractors are used to improve the working environment and to reduce levels of hazardous dust to a minimum. For these reasons it is very critical to have an efficient separation of fine dust in the filter system. In our dust extractors we always operate with a fine filter that will separate the largest amount of dust. But to also capture almost 100% of the finest - and most dangerous - particles, we always finish off the design with a HEPA filter.

To guarantee that the filter complies with relevant environment regulations, some common standards are used. They are described in the following.

Test methods

The test methods of current standards for dust extractors and filters are always based on particle counting. By injecting particles before the filter and by monitoring the concentration before and after the filter, the penetration can be calculated (a penetration of 0,1% is equal to a degree of separation of 99,9%). The test is executed in several steps by individually examining the filter media, the complete filter cartridge and in some cases, also the complete unit.

HEPA filters

In the classification of HEPA filters, Dustcontrol uses the strict HEPA standard (EN 1822-1). It is divided into different levels (H10 to H14) depending on filtration efficiency. Dustcontrol applies level H13 which can separate up to 99,95 % of the particles, with a particle size between 0,15 to 0,30 μm . This particle size is used because it is the hardest to separate - both larger and smaller particles are easier to capture in a filter.

Dust extractors

In IEC-60335-2-69 (EN-60335-2-69) dust extractors are classified into three categories – L for low, M for medium and H for high– where the H category is the most severe (Note! do not confuse this “H” with that in HEPA H13). The category required for a specific application is decided on the basis of the permitted maximum concentration for working places (MAK) for that type of dust.

The test according to IEC.60335-2-69 consists of two parts.

1. Test of filter system (in our case a fine filter and a HEPA filter). To achieve category H at a separation degree of 99,995%, 90 % of the test particles must be smaller than 1,0 μm . Our fine filters comply with category M and our HEPA filters with category H.
2. Test of assembled unit - in our case this applies to a complete dust extractor. Here it also requires 99,995% efficiency, however 10% of the particles must be smaller than 1,0 μm , 22% smaller than 2,0 μm and 75% smaller than 5,0 μm .

The filter systems of Dustcontrol dust extractors are built to comply with the tough IEC machine classification H.

Comparing notes

- A strand of human hair is approx. 100 μm in diameter.
 - Particles smaller than 10 μm are not visible by the naked eye.
 - A particle of tobacco smoke is on average 0,01 to 1,00 μm .
 - Most bacteria are between 0,35 to 10,0 μm .
 - Almost all viruses are smaller than 0,03 μm .
- (μm = micron)





The filter mounting system makes it possible to place a containment bag over the unit during filter changes to minimise the potential for dust release.



Dustcontrol uses conical pleated filters in all new extraction units. A pleated filter has a very large area in relation to its physical size. The extraction units can therefore be compact in relation to the filter area they contain.

Only original Dustcontrol filters are tested and approved. Use of other than original spare parts will void the Dustcontrol warranty and dust leaks could occur which may be hazardous to health. The filters are certified according to current European requirements for dust extraction. This assures that with the correct handling, an optimum filtration is achieved. Please follow the instructions concerning the handling of filters so that they can be changed without leakage of hazardous dust.

Classification of our dust extractors

NAME	STANDARD DESIGNATION	CLASSIFICATION	EFFICIENCY	PARTICLE SIZE	EXAMPLE	MAK (Max. Concentration for Workplace)
IEC* standard	IEC 60335-2-69	L = 	> 99 %	0,1 - 5,0 µm**	H = 99,995 %	> 1,0 mg/m ³
		M = 	> 99,9 %			> 0,1 mg/m ³
		H = 	> 99,995 %			< 0,1 mg/m ³ and carcinogenic substances
		H asbestos = 	> 99,995 %			< 0,1 mg/m ³ and carcinogenic substances incl asbestos

* IEC: International Electrotechnical Commission ** Part 1: 90 % < 1,0 µm Part 2: 10 % < 1,0 µm
22 % < 2,0 µm
75 % < 5,0 µm

Classification of HEPA filters

NAME	STANDARD DESIGNATION	CLASSIFICATION	EFFICIENCY	PARTICLE SIZE	EXAMPLE
HEPA*	EN 1822-1	H10	85 %	MPPS**** between 0,15–0,30 µm	HEPA H13 = 99,95 %
		H11	95 %		
		H12	99,5 %		
		H13	99,95 %		
DOP**	US IAW MIL-STD 282, 1956)***	H14	99,995 %	0,30 µm	DOP 99,97 %
			99,97 %		

* High Efficiency Particle Air filter, ** DOP: Dioctyl Phthalate, *** IAW: The Indications, Analysis, and Warnings Program, **** Most Penetrating Particle Size

* IEC: International Electrotechnical Commission **Part 1: 90 % < 1,0 µm Part 2: 10 % < 1,0 µm
22 % < 2,0 µm
75 % < 5,0 µm



A- and C-line, single-phase dust extractors

All the one-phase dust extractors in this chapter are equipped with a fine filter and a HEPA filter (H 13). Filter cleaning is achieved with a reverse air pulse cleaning system which is both effective and done without mess or having to disassemble the machine. The filter system also allows for ergonomic and dust-free filter changes.



DC 1800 – Ten kilos of pure working joy

The DC 1800 is suitable for general cleaning and source extraction from handheld power tools (with up to 5" suction casings) and small table saws. The DC 1800 is small and lightweight and as such suitable for those that need a highly portable machine that is still powerful enough for source extraction. With its low weight, it is easy to carry onto the job site and it can be easily stored or rolled under a workbench. The sturdy construction is perfect for the demands of the construction and machine rental industry, but also for anyone that needs a light yet powerful dust extractor. The DC 1800 is equipped with a steel container and a plastic bag can be used inside the container.

- Part No 1343430C30* 230 V, 50 Hz
- Part No 1343450C30* 230 V, 50 Hz, UK
- Part No 1343310C30* 115 V, 50 Hz, UK
- Part No 1343320CF0* 115 V, 60 Hz, US/CAN
- Part No 1343430C31* 230 V, 50 Hz Auto start
- Part No 1343350C31* 230 V, 50 Hz Auto start, UK
- Part No 1343310C31* 115 V, 50 Hz Auto start, UK
- Part No 1343320CF1* 115 V, 60 Hz Auto start, US/CAN
- Part No 1343440C30* 230 V, 50 Hz, DK
- Part No 1343440C31* 230 V, 50 Hz Auto start, DK

A highly portable machine, powerful enough for source extraction

DC 1800

The DC 1800 is delivered with the following:

- Suction hose (Ø 38) 5 m (Part No 2105)
- Floor nozzle B 370/38 (Part No 7235)
- Suction pipe Ø 38 (Part No 7257)
- Plastic sacks (Part No 42291)
- Fine filter, cellulose (Part No 42029)
- HEPA filter (Part No 42027)

TECHNICAL DATA – DC 1800

Weight	10 kg
Flow at open inlet, max	190 m ³ /h
Neg pressure 115/230 V	21/24 kPa
Power consumption 115/230 V	1 200/1 400 W
Noise level	68 dB(A)



DC 2800 – The professionals favourite

The DC 2800 is our most popular dust extractor. It is suitable for vacuum cleaning and source extraction from handheld power tools (with up to 5” suction casings) and small table saws. The DC 2800 has a sturdy steel chassis with big wheels, but is still lightweight and portable. The DC 2800 can be ordered with a plastic bag (DC 2800c) or with a steel container (DC 2800a). Collection in a steel container makes the DC 2800a ideal for use with sharp items such as metal chips.

- DC 2800a, Part No **1344430GF0** 230 V, 50 Hz
- DC 2800a, Part No **1344450GF0** 230 V, 50 Hz, UK
- DC 2800a, Part No **1344310GF0** 115 V, 50 Hz, UK
- DC 2800a, Part No **1344320GF0** 115 V, 60 Hz, US/CAN
- DC 2800a, Part No **134440GF0** 230 V, 50 Hz, DK
- DC 2800c, Part No **1314430230** 230 V, 50 Hz
- DC 2800c, Part No **1314450230** 230 V, 50 Hz, UK
- DC 2800c, Part No **1314310230** 115 V, 50 Hz, UK
- DC 2800c, Part No **13143202F0** 115 V, 60 Hz, US/CAN
- DC 2800c, Part No **1314430231** 230 V, 50 Hz, Auto start
- DC 2800c, Part No **1314450231** 230 V, 50 Hz, Auto start, UK
- DC 2800c, Part No **1314310231** 115 V, 50 Hz, Auto start, UK
- DC 2800c, Part No **13143202F1** 115 V, 60 Hz, Auto start, US/CAN
- DC 2800c, Part No **1314440230** 230 V, 50 Hz, DK
- DC 2800c, Part No **1314440231** 230 V, 50 Hz, Auto start, DK

DC 2800a/c

The DC 2800a is delivered with the following:

- Antistatic suction hose Ø 38, 5 m (Part No 2012+2108+2114)
- Floor nozzle W 370 aluminium (Part No 7235)
- Suction pipe Ø 38 (Part No 7257)
- Container 40 l (Part No 40070)
- Fine filter, polyester (Part No 42028)
- HEPA filter (Part No 42027)

The DC 2800c is delivered with the following:

- Suction hose (Ø 38) 5 m (Part No 2105). For part no 13143202F0: suction hose (Ø 38) 5 m, antistatic (Part No 2012)
- Floor nozzle B 370/38 (Part No 7235)
- Suction pipe Ø 38 (Part No 7257)
- Plastic sacks (4814, 5 pcs)
- Fine filter, cellulose (Part No 42029)
- HEPA filter (Part No 42027)

TECHNICAL DATA – DC 2800a

Weight	19 kg
Flow at open inlet	190 m ³ /h
Neg pressure, 115/230 V	21/24 kPa
Power consumption 115/230 V	1200/1400 W
Noise level	68 dB(A)

TECHNICAL DATA – DC 2800c

Weight	14 kg
Flow at open inlet	190 m ³ /h
Neg pressure, 115/230 V	21/24 kPa
Power consumption 115/230 V	1200/1400 W
Noise level	68 dB(A)



DC2800a

DC2800c

DC 2800c Rental

– Perfect for the hire industry

The DC 2800c Rental is basically a DC 2800c equipped with an operation timer and inlet plug for the negative pressure gauge (Part no. 8260). Therefore, construction rental companies can record the total usage of their machines and change filters at the right time.

Part No **13244K0230** 230V 50 Hz Auto start

Part No **1324350231** 230 V, 50 Hz Auto start, UK

Part No **1324310231** 115 V, 50 Hz Auto start, UK

Part No **13243202F1** 115 V, 60 Hz Auto start, US/CAN



DC 2800c Rental

The DC 2800c Rental is delivered with the following:

- Suction hose (Ø 38) 5 m (Part No 2105)
- Floor nozzle B 370/38 (Part No 7235)
- Suction pipe Ø 38 (Part No 7257)
- 5 pcs plastic sacks (Part No 4814)
- Fine filter, cellulose (Part No 42029)
- HEPA filter (Part No 42027)

TECHNICAL DATA-DC2800cRental

Weight	14 kg
Flow at open inlet	190 m ³ /h
Neg pressure max, 115/230 V	21/24 kPa
Power consumption, 115/230 V	1 200/1 400 W
Noise level	68 dB(A)

DC 2800 H Asbestos

– Safe asbestos removal

The DC 2800 H Asbestos meets the highest demands in some countries and is certified by BIA. Asbestos is a hazardous material that should be removed with caution. The dust extractor is equipped with antistatic hose, a plug for the cyclone inlet, orange plastic bags and other safety precautions. Don't compromise your health when removing Asbestos!

DC 3800 H Asbestos and DC 5800 H Asbestos are available on special order. Please contact Dustcontrol for more information.

Part No **117900** 230 V, 50 Hz

Part No **1334451G40** 230 V, 50 Hz, UK

Part No **1334311G40** 115 V, 50 Hz, UK

Part No **1334321G40** 115 V, 60 Hz, US/CAN



DC 2800 H Asbestos

The DC 2800 H Asbestos is delivered with the following:

- Suction hose (Ø 38), antistatic, 5 m (Part No 2012)
- Floor nozzle B 370/38 (Part No 7235)
- Suction pipe Ø 38 (Part No 7257)
- 5 pcs plastic sacks (Part No 42285)
- Combi filter (Part No 40479)

TECHNICAL DATA-DC2800HAsb.

Weight	19 kg
Flow at open inlet	190 m ³ /h
Neg pressure max, 115/230 V	21 kPa
Power consumption, 115/230 V	1 200 W
Noise level	70 dB(A)



DC 3800 – Medium sized dust extractor with two motors

The DC 3800 is a medium sized dust extractor that has a high cyclone and twin single-phase motors. The dust extractor is suitable for cleaning and for source extraction from small and medium sized power tools such as wall grinders, hammering machines and saws. Thanks to the high cyclone, big filters and powerful motor package it can handle large amounts of particles. Suitable casings are: sanding, grinding and diamond disc casings up to 9" (230 mm) as well as rubber suction bellows for chisel hammers, drilling machines and descaling hammer (part nos. 6078 & 6130). The DC 3800 can be ordered with a plastic bag (DC 3800c) or a steel container (DC 3800a). Collection in a steel container is ideal for sharp materials such as metal chips.

- DC 3800a, Part No 1345GK0GB0 230 V, 50 Hz
- DC 3800a, Part No 1345GM0GB0 230 V, 50 Hz, UK
- DC 3800a, Part No 13453100B0 115 V, 50 Hz, UK
- DC 3800a, Part No 13453200B0 115 V, 60 Hz, US/CAN
- DC 3800a, Part No 1345GL0GB0 230 V, 50 Hz, DK
- DC 3800c, Part No 1315GK06A0 230 V, 50 Hz
- DC 3800c, Part No 1315GM06A0 230 V, 50 Hz, UK
- DC 3800c, Part No 13155106A0 115 V, 50 Hz, UK
- DC 3800c, Part No 13155206B0 115 V, 60 Hz, US/CAN
- DC 3800c, Part No 1315G106A0 230 V, 50 Hz, DK



DC3800a



DC3800c

DC 3800a/c

The DC 3800a is delivered with the following:

- Antistatic suction hose Ø 50, 5 m (Part No 2013+2107+2129)
- Floor nozzle W 500 aluminium (Part No 7238)
- Suction pipe Ø 50 (Part No 7265)
- Container 40 l (Part No 40070)
- Fine filter, polyester (Part No 42025)
- HEPA filter (Part No 42024)

The DC 3800c is delivered as standard with the following:

- Suction hose 5 m, Ø 50 (Part No 2401+2129+2107)
- Floor nozzle B500 (Part No 7238)
- Suction pipe Ø 50 (Part No 7265)
- 5 plastic sacks (Part No 4110)
- Fine filter, polyester (Part No 42025),
- HEPA filter (Part No 42024)

TECHNICAL DATA – DC 3800a

Weight	38 kg
Flow at open inlet	320 m ³ /h
Negative pressure, max (115/230 V)	21/24 kPa
Power consumption (115/230 V)	2 300 W/2 800 W
Noise level (115/230 V)	75/70 dB(A)

TECHNICAL DATA – DC 3800c

Weight	35 kg
Flow at open inlet	320 m ³ /h
Negative pressure, max (115/230 V)	21/24 kPa
Power consumption (115/230 V)	2 300 W/2 800 W
Noise level (115/230 V)	75/70 dB(A)

DC 3800c Twin – With integrated pre-separator

The DC 3800c Twin is a portable but very powerful dust extractor suitable for large quantities of dust due to its integrated pre-separator. It is particularly suitable for concrete grinding since 80–90% of the coarse materials are separated in the pre-separator. The remaining dust goes into the filter cyclone. The 3800c Twin is a popular machine since it is powerful enough for most applications yet it can be easily moved and transported. The air flow capacity is suitable for concrete floor grinding machines with a diamond disc diameter of up to 20" (approx. 500 mm).

- Part No 13D5GK06G0 230 V, 50 Hz
- Part No 13D5GM06G0 230 V, 50 Hz, UK
- Part No 13D55106G0 115 V, 50 Hz, UK
- Part No 13D55206G0 115 V, 60 Hz, US/CAN
- Part No 13D5GL06G0 230 V, 50 Hz, DK



DC 3800c Twin

The DC 3800c Twin is delivered as standard with the following:

- Suction hose 7,5 m Ø 50 (Part No 2013, 2129, 2107)
- Floor nozzle B500 (Part No 7238)
- Suction pipe Ø 50 (Part No 7265)
- Plastic sacks (Part No 4110)
- Fine filter, polyester (Part No 42025)
- HEPA filter (Part No 42024)

TECHNICAL DATA-DC3800cTwin

Weight	54 kg
Flow at open inlet	320 m³/h
Negative pressure, max (115/230 V)	21/24 kPa
Power consumption (115/230 V)	2 300 W / 2 800 W
Noise level (115/230 V)	75/70 dB(A)



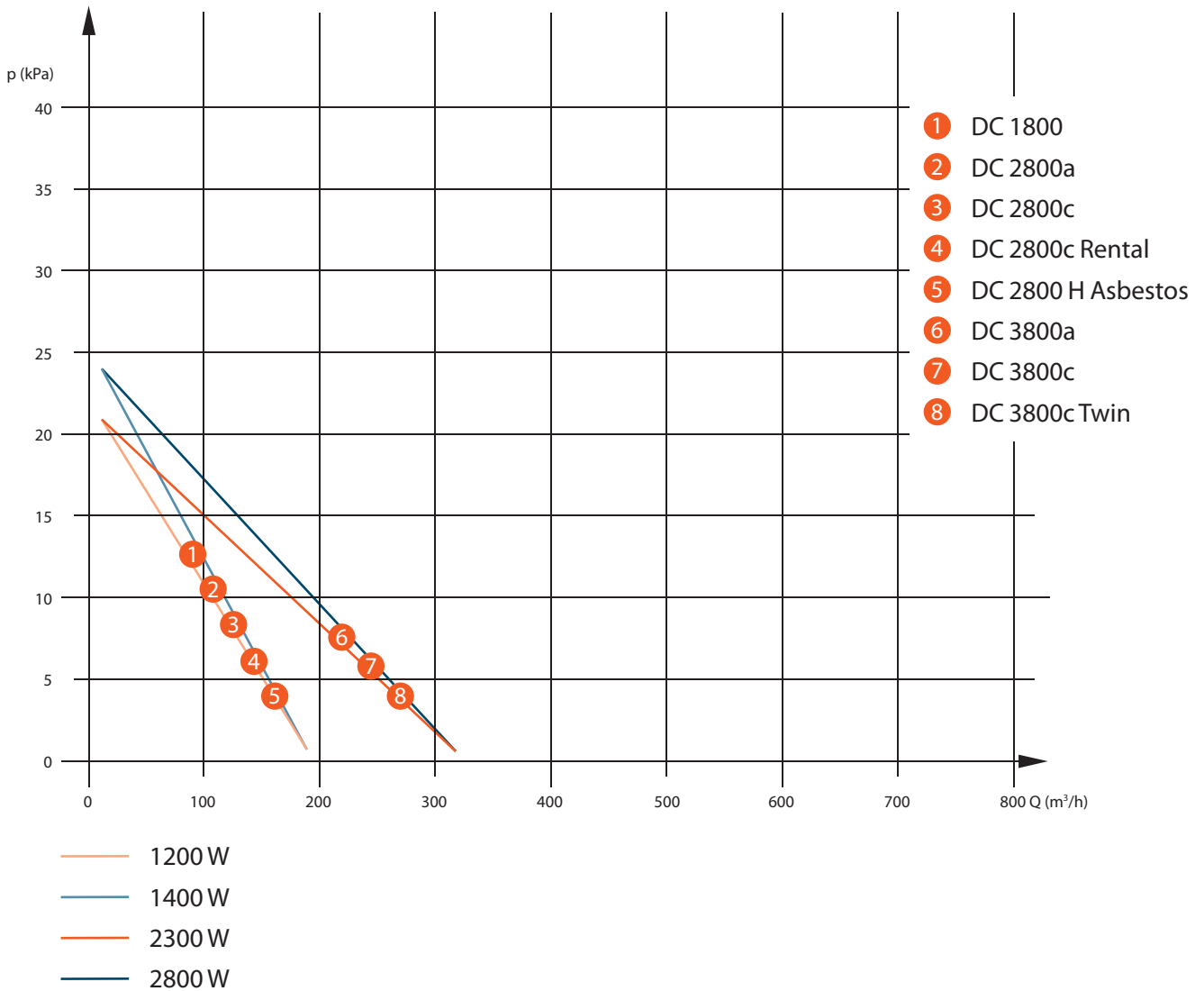
Two cyclones. One to take care of the coarse material. The other takes care of the fine dust.

DC 3800c Twin.



DC 3800c.

Capacity



TECHNICAL DATA	DC 1800	DC 2800a/c	DC 2800c Rental	DC 2800 H Asbestos	DC 3800a/c
H x W x L mm	740 x 380 x 380	1110 x 440 x 550 1070 x 420 x 510	1070 x 420 x 400	1060 x 440 x 550	1446 x 600 x 700 1375 x 600 x 700
Weight	10 kg	19 kg/14 kg	14 kg	19 kg	38 kg/35 kg 54 kg
Inlet	X 50 mm	Ø 50 mm	Ø 50 mm	Ø 50 mm	Ø 50 mm Ø 50 mm
Hose length (Ø 50)	5 m (Ø 38)	5 m (Ø 38)	5 m (Ø 38)	5 m (Ø 38)	5–10 m (Ø 50) 5–20 m
Flow at open inlet	190 m³/h	190 m³/h	190 m³/h	190 m³/h	320 m³/h 320 m³/h
Negative pressure, max (115/230 V)	21/24 kPa	21/24 kPa	21/24 kPa	21 kPa	21/24 kPa 21/24 kPa
Power consumption (115/230 V)	1 200/1 400 W	1 200/1 400 W	1 200/1 400 W	1 200 W	2 300 W/2 800 W 2 300 W/2 800 W
Filter area, fine filter	1.5 m²	1.5 m²	1.5 m²	1.5 m²	1.8 m² 1.8 m²
Degree of separation fine filter					
EN 60335-2-69, Class M	99.9 %	99.9 %	99.9 %	99.9 %	99.9 % 99.9 %
Micro filter area	0.85 m²	0.85 m²	0.85 m²	0.85 m²	1.5 m² 1.5 m²
Degree of separation					
microfilter EN 1822-1	HEPA H13	HEPA H13	HEPA H13	HEPA H13	HEPA H13 HEPA H13
EN 60335-2-69, Class H	99.995 %	99.995 %	99.995 %	99.995 %	99.995 % 99.995 %
Collection container/sack	15 l	40 l/20 l	20 l	40 l	40 l/40 l 2 x 40 l
Noise level (115/230 V)	68 dB(A)	68 dB(A)	68 dB(A)	70 dB(A)	75/70 dB(A) 75/70 dB(A)

A-line and C-line three-phase dust extractors

Our three-phase machines are used for heavy materials where high pressure is required. The vacuum producer is a turbo pump, directly driven by a three-phase motor. Our dependable turbo machines have minimal service requirements and a long life. The characteristic performance of the turbo pump is well suited for heavy cleaning and material transport. The turbo motor generates more vacuum when the resistance increases.



DC 3800c Turbo – The professional dust extractor for continuous operation

The DC 3800c Turbo is a medium sized dust extractor that has a high cyclone and a three-phase motor. The dust extractor is suitable for long hoses (up to 20 metres), heavy cleaning (38mm accessories) and for source extraction from power tools such as wall grinders, hammering machines, and saws. Thanks to the high cyclone, big filters and powerful motor package, it can handle large amounts of particles. Suitable casings are: sanding, grinding and diamond disc casings up to 9" (230 mm) as well as rubber suction bellows for chisel hammers, drilling machines and de-scaling hammers (Part Nos. 6078 & 6130).

Part No **13156A06K0** 400 V, 50 Hz, 2.5 kW
 Part No **13156P06J0** 230/460 V, 60 Hz, 4 HP US/CAN
 Part No **13156G06J0** 575 V, 60 Hz, 4 HP CAN



A well balanced machine for very easy handling

DC 3800c Turbo

The DC 3800c Turbo is delivered as standard with the following:

- Hose set total 7 m (5 m Ø 50 and 2 m Ø 38) (Part No 2125)
- Floor nozzle 450, Ø38, aluminium (Part No 7236)
- Suction pipe Ø38 (Part No 7257)
- 5 plastic sacks (Part No 4110)
- Fine filter, polyester (Part No 42025)
- HEPA filter (Part Nr 42024)

TECHNICAL DATA-DC3800cTurbo

Weight	62 kg
Flow at open inlet	260 m ³ /h
Negative pressure, max (115/230 V)	28 kPa
Power consumption (115/230 V)	2,5 kW
Noise level (115/230 V)	75/70 dB(A)

DC 3800c Twin Turbo – 3-phase dependability in a portable package

The DC 3800c Twin Turbo is a portable but very powerful dust extractor suitable for large quantities of dust due to its integrated pre-separator. It is particularly suitable for long hoses (up to 20 metres) and heavy concrete grinding. 80-90% of the coarse materials are separated in the pre-separator and the remaining dust enters the filter cyclone.

Part No **13D56A06G0** 400 V, 50 Hz, 2,5 kW

Part No **13D5BC06G0** 230/460 V, 60 Hz, 4 HP US/CAN

Part No **13D5BG06G0** 575 V, 60 Hz, 4 HP CAN



DC3800cTwinTurbo

The DC 3800c Twin and the DC 3800c Twin Turbo is delivered as standard with the following:

- Suction hose 7,5 m Ø 50 (Part No 2013, 2129, 2107)
- Floor nozzle B500 (Part No 7238)
- Suction pipe Ø 50 (Part No 7265)
- Plastic sacks (Part No 4110)
- Fine filter, polyester (Part No 42025)
- HEPA filter (Part No 42024)

TECHNICALDATA-DC3800cTurbo

Weight	81 kg
Flow at open inlet	260 m³/h
Negative pressure, max (115/230 V)	28 kPa
Power consumption (115/230 V)	2.5 kW
Noise level (115/230 V)	75 dB(A)

DC 5800 – powerful dust extractors

All DC 5800's are very powerful and dependable mobile dust extractors. These units are built on a robust and sturdy steel chassis for maximum durability on e.g. construction sites. With a direct driven three-phase turbo pump, the DC 5800 is suitable for continuous operation and heavy material transport, source extraction and cleaning. The DC 5800 will give sufficient airflow for several users at the same time and it can also be used as a central unit in a tubing system. It is suitable for source extraction with grinding discs up to 500 mm in diameter.

DC 5800a/c 5 kW – Get rid of large quantities of dust

The standard DC 5800c 5kW/10 HP is used for big hand held power tools and heavy duty cleaning on construction sites. The dust extractor is suitable for two smaller handheld power tools or one bigger tool, such as a floor grinding machine, with a disc of up to 500mm. The DC 5800a 5 kW/10 HP is similar to the DC 5800c except that it is equipped with a steel container.

DC 5800a

Part No **114401** 400 V, 50 Hz

DC 5800c

Part No **115801** 400 V 50 Hz, 5 kW

Part No **115832** 460 V 60 Hz, 10 HP USA/CAN

Part No **115831** 575 V 60 Hz, 10 HP CAN



DC 5800a

The DC 5800a 5 kW is delivered as standard with the following:

- 7,5 m antistatic hose Ø 50 (Part No 2013)
- Floor nozzle B500/50 (Part No 7238)
- Suction pipe Ø 50 (Part No 7265)
- HEPA filter (Part No 4422)
- Fine filter polyester (Part No 429203)

DC 5800c

The DC 5800c 5 kW is delivered as standard with the following:

- 7,5 m suction hose Ø 50 (Part No 2401 + 2008 + 2129)
- Floor nozzle B500/50 (Part No 7238)
- Suction pipe Ø 50 (Part No 7265)
- 5 plastic bags (Part no 4614)
- HEPA filter (Part No 4422)
- Fine filter polyester (Part No 429204)

TECHNICALDATA-DC5800a/c

Weight	ca 170 kg
Flow at open inlet	470 m³/h
Negative pressure, max	28 kPa
Power consumption	5 kW
Noise level	75 dB(A)

DC 5800c 9,2 kW S – Suitable for material transport

The DC 5800c 9.2 kW/15/18.5 HP S has an extremely strong vacuum effect and is therefore optimised for very long hose lengths. It is generally used in different types of material transport systems and for heavy cleaning where the coarse material is separated in a pre-separator.

Part No **115847** 400 V, 50 Hz, 9,2 kW

Part No **115872** 460 V, 60 Hz, 15 HP US/CAN

Part No **115871** 575 V, 60 Hz, 15 HP CAN

DC 5800c 9,2 kW P – Ideal for semi-mobile systems with many extraction points

The DC 5800c 9.2 kW/15 HP P generates an extremely large air flow and is therefore optimised for many extraction points. It is generally used in semi-mobile extraction systems, where the machine is conveniently placed in a central location and connected to a hose or tubing system. Maximum efficiency is maintained with up to four simultaneous users.

Part No **115851** 400/690 V, 50 Hz, 9,2 kW

DC 5800a/c PTFE – Perfect for concrete grinding

The DC 5800a/c PTFE is a joint development project together with a market leading concrete floor grinding machine manufacturer. It is especially suited to managing the large volumes of concrete dust generated during floor grinding. The machine is equipped with a pleated PTFE filter cartridge (Teflon filter) with a big filter area (5 m²) to maximise airflow). The PTFE filter reduces the tendency of fine dust to adhere to things. As a result, it allows continuous operation of today's highly efficient concrete floor grinders. Floor grinding is definitely one of the toughest applications for a construction dust extractor. This means that high demands are made on the filters and the equipment used to collect the dust.

The DC 5800a PTFE and DC 5800c PTFE models provide optimal performance with concrete grinding discs of up to 1000 mm. The DC 5800a is equipped with a 75 litre steel container, while the DC 5800c PTFE has a plastic sack. Dustcontrol strongly recommend the use of a pre-separator for maximum efficiency in floor grinding applications.

Part No **116701** DC 5800a PTFE 400 V, 50 Hz, 5 kW*

Part No **116601** DC 5800c PTFE 400 V, 50 Hz, 5 kW**

Part No **116735** DC 5800c PTFE 230/460 V, 60 Hz, 10 HP US/CAN

Art nr **115853** DC 5800c PTFE 400 V, 50 Hz, 9,2 kW P

* 75 l container, Part No 7368

** 60 l sack



DC 5800c 9,2 kW S

The DC 5800c 9.2 kW/15 HP S is delivered as standard with the following:

- 5 plastic sacks (Part No 4614)
- HEPA filter (Part No 4422)
- Fine filter, polyester (Part No 429204)

DC 5800c 9,2 kW P

The DC 5800c 9.2 kW P is delivered as standard with the following:

- 5 plastic sacks
- 2 HEPA filters (Part No 4017)
- Fine filter, polyester (Part No 4292)

DC 5800a/c PTFE

The DC 5800a/c PTFE 5 kW is delivered as standard with the following:

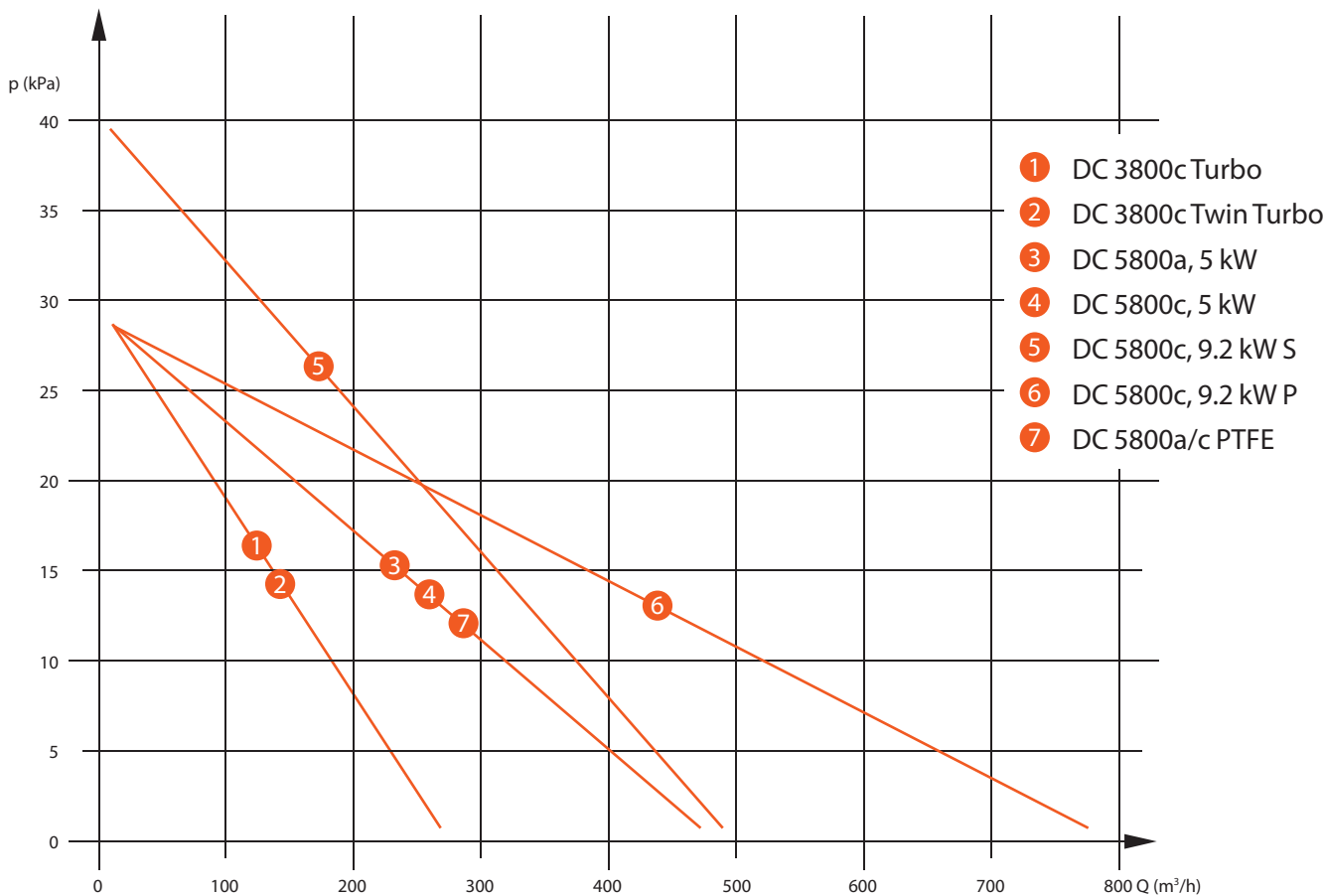
- 7,5 m antistatic hose Ø 50 (Part No 2013)
- Coupling socket 76/50 (Part No 2008) and 50/50 (Part No 2107)
- Floor nozzle B500/50 (Part No 7238)
- Suction pipe Ø 50 (Part No 7265)
- For DC 5800c: 5 plastic sacks (Part No 4614)
- HEPA filter (Part No 4422)
- Fine filter polyester PTFE teflon (Part No 429203)



DC 5800a/c PTFE is available with plastic sacks

TECHNICAL DATA	DC 5800c 9,2 kW S		DC 5800c 9,2 kW P
H x W x L (mm)	1800 x 760 x 1150	1800 x 760 x 1150	1920 x 760 x 1050
Weight	ca 200 kg	210 kg	ca 180 kg
Flow at open inlet	500 m ³ /h	800 m ³ /h	470 m ³ /h
Negative pressure, max	40 kPa	28 kPa	28 kPa
Power consumption	9,2 kW	9,2 kW	5 kW
Noise level	75 dB(A)	75 dB(A)	75 dB(A)

Capacity

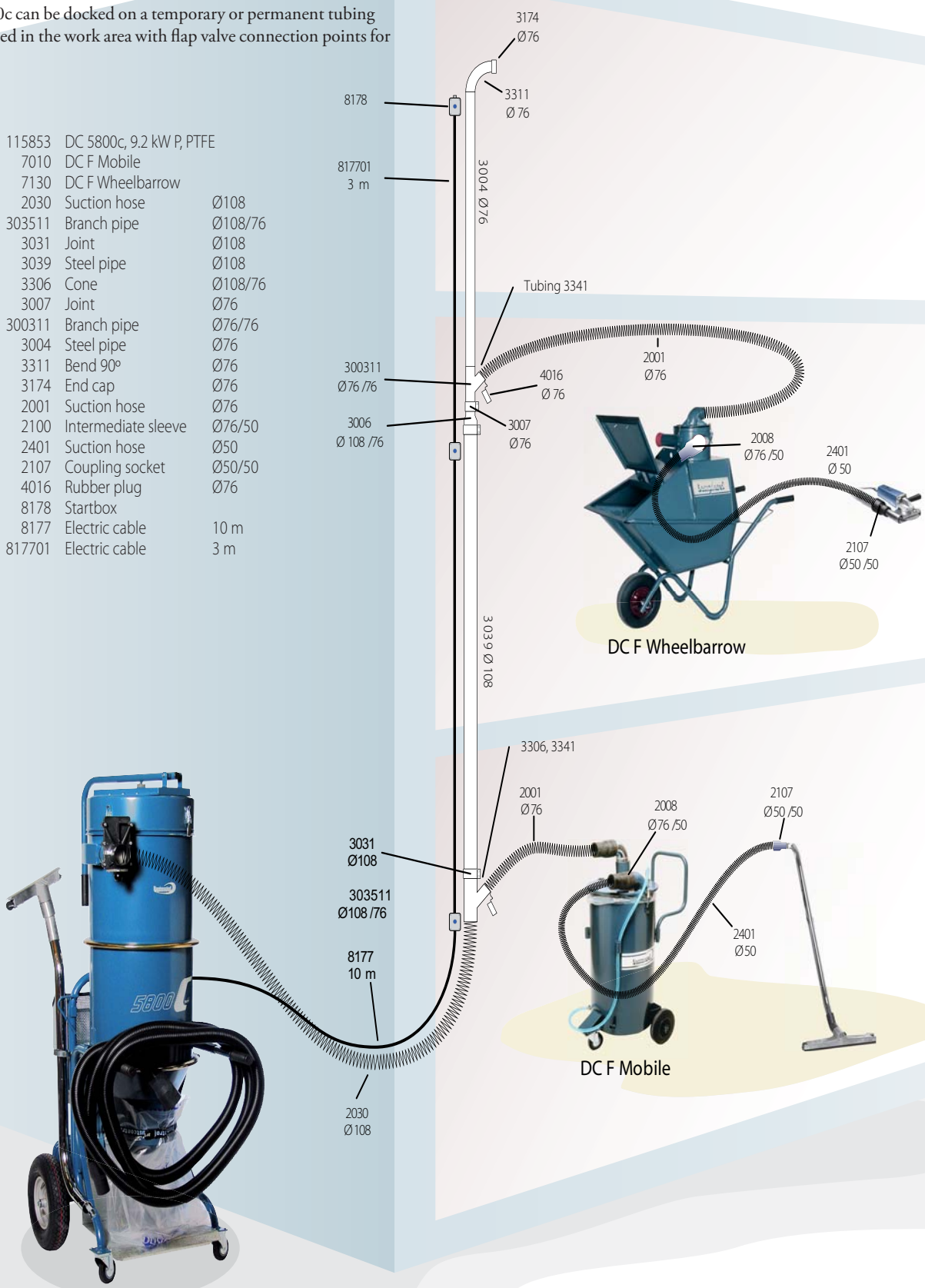


TECHNICAL DATA	DC 3800c Turbo		DC 3800 Twin Turbo		DC 5800a 5 kW	DC 5800c 5 kW	DC 5800c 9,2kW P
H x W x L (mm)	1400 x 600 x 970	1400 x 650 x 970	1920 x 760 x 1000	1920 x 760 x 1000	1800 x 760 x 1150	1800 x 760 x 1150	1920 x 760 x 1050
Weight	62 kg	81 kg	170 kg	ca 170 kg	ca 200 kg	210 kg	ca 180 kg
Inlet	X 50 mm	X 50 mm	Ø 76 mm	Ø 76 mm	Ø 76 mm	Ø 108 mm	Ø 76 mm
Hose length (Ø 50)	5–15 m	(Ø 50) 5–20 m	5–30 m	5–30 m	5–50 m	5–30 m	5–30 m
Flow at open inlet	260 m³/h	260 m³/h	470 m³/h	470 m³/h	500 m³/h	800 m³/h	470 m³/h
Negative pressure, max (115/230 V)	28 kPa	28 kPa	28 kPa	28 kPa	40 kPa	28 kPa	28 kPa
Power consumption (115/230 V)	2,5 kW	2,5 kW	5 kW	5 kW	9,2 kW	9,2 kW	5 kW
Filter area, fine filter	1,8 m²	1,8 m²	8,4 m²	8,4 m²	8,4 m²	8,4 m²	5,0 m²
Degree of separation fine filter	99,9 %	99,9 %	99,9 %	99,9 %	99,9 %	99,9 %	99,9 %
EN 60335-2-69, Class M							
Filter area micro filter	1,5 m²	1,5 m²	2,5 m²	2,5 m²	2,5 m²	5,0 m²	2,5 m²
Degree of separation micro filter							
EN 1822-1							
Filter	HEPA H13	HEPA H13	HEPA H13	HEPA H13	HEPA H13	HEPA H13	HEPA H13
EN 60335-2-69, Class H	99,995 %	99,995 %	99,995 %	99,995 %	99,995 %	99,995 %	99,995 %
Collecting sack	40 l	2 x 40 l	75 l	60 l	60 l	60 l	60 l/75 l
Noise level (115/230 V)	75/70 dB(A)	75 dB(A)	75 dB(A)	75 dB(A)	75 dB(A)	75 dB(A)	75 dB(A)

DC 5800 Semi mobile system

The DC 5800c can be docked on a temporary or permanent tubing system installed in the work area with flap valve connection points for the users.

- 115853 DC 5800c, 9.2 kW P, PTFE
- 7010 DC F Mobile
- 7130 DC F Wheelbarrow
- 2030 Suction hose Ø108
- 303511 Branch pipe Ø108/76
- 3031 Joint Ø108
- 3039 Steel pipe Ø108
- 3306 Cone Ø108/76
- 3007 Joint Ø76
- 300311 Branch pipe Ø76/76
- 3004 Steel pipe Ø76
- 3311 Bend 90° Ø76
- 3174 End cap Ø76
- 2001 Suction hose Ø76
- 2100 Intermediate sleeve Ø76/50
- 2401 Suction hose Ø50
- 2107 Coupling socket Ø50/50
- 4016 Rubber plug Ø76
- 8178 Startbox
- 8177 Electric cable 10 m
- 817701 Electric cable 3 m



DC 5800 c 9.2 kW PTFE



I-line – very low noise emissions

In some industries a mobile dust extractor is preferred over a stationary system. Noise pollution is a health hazard. Therefore, if the machine is to be used indoors, for example in a workshop or production facility, it has to be quiet. Dustcontrol's I-line is most suitable as a flexible indoor vacuum producer, since the vacuum producer is insulated.

The I-line dust extractors can be docked to a permanent or temporary tubing system or one dust extractor can be used at each workstation. Ideally it is used for source extraction from handheld

power tools, but it can also be used for heavy cleaning of e.g. metal chips. The vacuum producer is a turbo pump driven direct by a three-phase motor, providing reliability, long life and minimal service requirements. The characteristic capacity of the turbo pump is well suited for cleaning and material transport - the greater the resistance, the more vacuum generated.

DC 3800i – Silent dust extractor for continuous operation

The DC 3800i combines central system performance with the flexibility of a mobile machine. It is used with Ø 38 mm accessories for heavier applications such as lathes and milling machines with large volumes of particles and chips. It is suitable for welding, woodchips, metal, aluminium chips, swarf, material transport and cleaning.

Part No **13556A05K0** 230/400 V, 50 Hz, 2,5 kW
Part No **117206** 230/460 V, 60 Hz, 4,0 HP USA/CAN



DC 3800i

The DC 3800i is delivered with:

- Suction hose 7 m (5 m Ø50 and 2 m Ø38, standard) (Part No 2125)
- Floor nozzle 450, Ø38, aluminium (Part No 7236)
- Suction pipe Ø38, steel (Part No 7257)
- Flat nozzle Ø38 L=400, steel (Part No 7213)
- Suction brush Ø38 (Part No 7278)
- Hand pipe Ø38 (Part No 7035)
- Container 40 l (Part No 40070)
- Fine filter, polyester (Part No 42025)

DC 5800i 5 kW – The quiet choice for large quantities of dust

The unit is used for source extraction from big power tools, for welding and for heavy cleaning. It is used with Ø 50 mm accessories for heavier applications. It is suitable for welding, woodchips, metal, aluminium chips, swarf, material transport, and cleaning.

Part No **117300** 5 kW 400/690 V, 50 Hz

DC 5800i 9.2 kW S – Silent material transport

The DC 5800i 9.2 kW S generates very high negative pressure over its working range and is well suited to use with extra long hoses. Its perfect for transport of large amounts of material and for collection in a pre-separator.

Part No **117340** 9,2 kW S 400/690 V, 50 Hz

DC 5800i 9,2 kW P – A quiet dust extractor ideal for many extraction points

The DC 5800i 9.2 kW P will give sufficient airflow for several users at the same time and can be "docked" on a permanent or temporary tubing system.

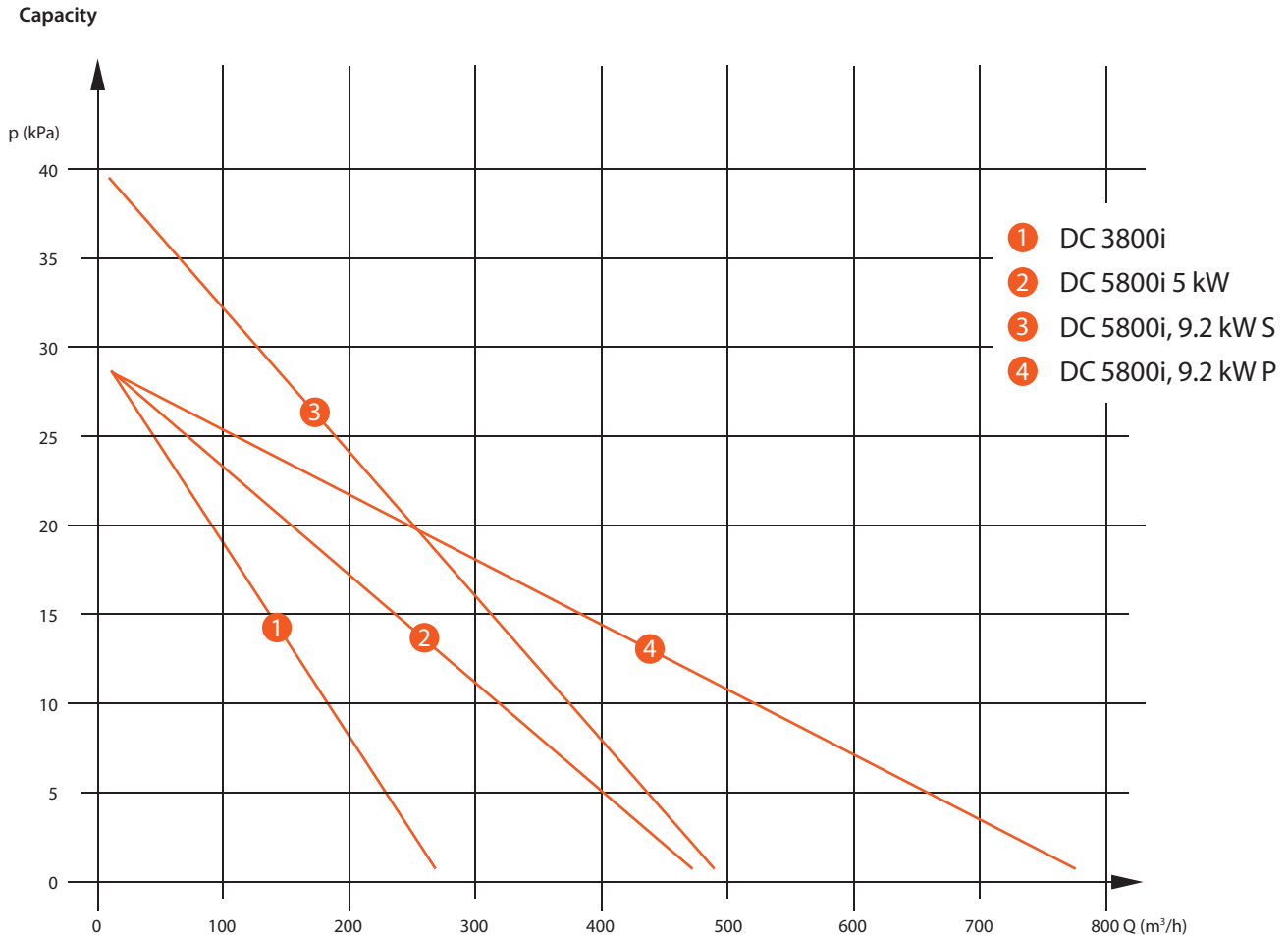
Part No **117350** 9,2 kW P 400/690 V, 50 Hz



DC 5800i

The DC 5800i is delivered with the following:

- Suction hose Ø 50, 7,5 m (Part No 2401+2008+2129)
- Floor nozzle B500 (Part No 7238)
- Suction pipe Ø 50 (Part No 7265)
- Suction brush (Part No 7279)
- Flat nozzle (Part No 7212)
- Hand pipe Ø 50 (Part No 7033)
- Fine filter, polyester (Part No 4292)



TECHNICAL DATA	DC 3800i	DC 5800i 5 kW	DC 5800i 9.2 kW S	DC 5800i 9.2 kW P
H x W x L mm	1470 x 660 x 1100	1810 x 790 x 1400	1810 x 790 x 1400	1810 x 790 x 1400
Weight	ca 85 kg	205 kg	230 kg	240 kg
Inlet	Ø 50 mm	Ø 76 mm	Ø 76 mm	Ø 108 mm
Hose length	5–30 m (Ø 50)	5–30 m	5–50 m	5–50 m
Negative pressure, max	28 kPa	28 kPa	40 kPa	28 kPa
Flow at open inlet	260 m ³ /h	470 m ³ /h	500 m ³ /h	800 m ³ /h
Power consumption	2.5 kW	5 kW	9.2 kW	9.2 kW
Fine filter area	1.8 m ²	8.4 m ²	8.4 m ²	8.4 m ²
Degree of separation (EN 60335-2-69, Class M)	99.9 %	99.9 %	99.9 %	99.9 %
Collection in container	40 l	40 l	40 l	40 l
Noise level	60 dB(A)	59 dB(A)	<70 dB(A)	<70 dB(A)

Machines designed for industries where there is a risk of explosions

The EX-line is specially designed for industries where there is a risk of explosion and also high demands for clean production, such as the wood, food production and electronics industries.

The machines fulfil the requirements of the ATEX Zone 22 directive 1999/92 ATEX 137. Cleaning accessories from Dustcontrol are also available to meet this standard. Zone 22 is an area where an explosive environment, created by a combustible airborne substances, does not occur in normal operation or only occurs short-term.

These machines are equipped with steel containers, earth-bonded parts and antistatic accessories. The machines for non-conducting material are enclosed to IP5X standard. For conductive material, IP6X standard is valid. The machines are virtually maintenance free, and can extract dust in a vast range of applications, such as source extraction when using power tools for grinding, cutting and drilling applications as well as general cleaning. The machines can be used in environments between 0 and +50 degrees Celsius.



DC 1800 EX – Ten kilos of pure working joy in ATEX zone 22

The DC 1800 EX is suitable for general cleaning and source extraction. The DC 1800 is small and lightweight and as such suitable for those that need a highly portable machine that still is powerful enough for source extraction. With its low weight it is easy to carry onto the job site and it can be easily stored or rolled under a workbench. The DC 1800 is equipped with a steel container and a plastic bag can be used inside the container. It is equipped with a brushless motor (for spark-free operation) and is certified to IP5X standard.

Part No **13C3330C60** 230 V

Part No **13C3350C60** 230 V, UK

Part No **13C3310C60** 115 V, UK

Part No **13C3320C60** 115 V, US/CAN



DC 1800 EX

The DC 1800 is delivered with the following:

- Suction hose (Ø 38) 5 m (Part No 2012)
- Floor nozzle (Part No 7235E)
- Suction pipe Ø 38 (Part No 7257)
- Plastic sacks (Part No 42111)
- Fine filter, polyester (Part No 42028)
- HEPA filter (Part No 42027)

TECHNICAL DATA – DC 1800 EX

Weight	10 kg
Flow at open inlet, max	190 m ³ /h
Neg pressure 115/230 V	21 kPa
Power consumption 115/230 V	1100 W
Noise level	68 dB(A)

DC 2800 EX – The professionals choice in ATEX zone 22

The DC 2800 EX is suitable for vacuum cleaning and source extraction from handheld power tools (with up to 5" suction casings) and small table saws. The DC 2800 has a sturdy steel chassis with big wheels but is still light and portable. The chassis is designed in a manner that allows the unit to be led by the hose without tipping. Compared to DC 1800 EX, it has a slightly longer cyclone, which improves the suction power. The steel container is also bigger. The DC 2800 EX is equipped with a brushless motor (for spark-free operation) and enclosed to IP5X standard.

Part No **13C4330G60** 230 V

Part No **13C4350G60** 230 V, UK

Part No **13C4310G60** 115 V, UK

Part No **13C4320G60** 115 V, US/CAN



DC 2800 EX

The DC 2800 EX is delivered with the following:

- Suction hose (Ø 38) 5 m (Part No 2012)
- Floor nozzle (Part No 7235E)
- Suction pipe Ø 38 (Part No 7257)
- Plastic sacks (Part No 42111)
- Fine filter, polyester (Part No 42028)
- HEPA filter (Part No 42027)

TECHNICAL DATA – DC 2800 EX

Weight	19 kg
Flow at open inlet	190 m ³ /h
Neg pressure, 115/230 V	21 kPa
Power consumption 115/230 V	1100 W
Noise level	68 dB(A)

DC 3800 EX – Medium sized dust extractor with two motors for ATEX zone 22

The DC 3800 EX is a medium sized dust extractor with a high cyclone and twin single-phase motors. The dust extractor is suitable for cleaning and for source extraction. Thanks to the high cyclone, big filters and powerful motor package, it can handle large amounts of particles. The DC 3800 EX is equipped with a brushless motor (for spark-free operation) and certified to IP5X standard.

Part No **13C5530GD0** 230 V

Part No **13C5550GD0** 230 V, UK

Part No **13C5510GD0** 115 V, UK

Part No **13C5520GD0** 115 V, US/CAN



DC 3800 EX

The DC 3800 EX is delivered as standard with the following:

- Suction hose Ø 50 (Part No 2013)
- Floor nozzle (Part No 7238)
- Suction pipe Ø 50 (Part No 7265)
- Fine filter, polyester (Part No 42025),
- HEPA filter (Part No 42024)

TECHNICAL DATA – DC 3800 EX

Weight	35 kg
Flow at open inlet	320 m ³ /h
Negative pressure, max (115/230 V)	21 kPa
Power consumption (115/230 V)	2 200 W
Noise level (115/230 V)	75 dB(A)

DC 3800 Turbo EX – The dust extractor for continuous operation in ATEX zone 22

The DC 3800c Turbo EX is a medium sized dust extractor with a high cyclone and a three-phase turbo motor. Thanks to the high cyclone, big filters and powerful motor package, it can handle large amounts of particles. Since it is equipped with a powerful three-phase turbo pump it is suitable for long hoses (up to 20 metres) and heavy cleaning (38mm accessories). It is certified to IP6X standard (conductive dust).

Part No 13C56A0GDO 400 V, Non Conductive dust

Part No 13C56C0GDO 230/460 V, US/CAN,
Non Conductive dust

Part No 13756A0GDO 400 V, Conductive dust

Part No 13756C0GDO 230/460 V, US/CAN, Conductive dust



DC 3800 Turbo EX

The DC 3800c Turbo is delivered as standard with the following:

- Suction hose Ø 50 (Part No 2012, 2013)
- Floor nozzle (Part No 7236)
- Suction pipe Ø 50 (Part No 7265)
- Fine filter, cellulose (Part No 4025)
- HEPA filter (art nr 42024)

TECHNICAL DATA-DC3800TurboEX

Weight	62 kg
Flow at open inlet	260 m ³ /h
Negative pressure, max (115/230 V)	28 kPa
Power consumption (115/230 V)	2,5 kW
Noise level (115/230 V)	75/70 dB(A)

DC 5800 EX – Get rid of large quantities of dust in ATEX zone 22

The DC 5800 EX is designed for big hand held power tools and heavy cleaning. The unit is of robust and sturdy design for maximum dependability, coupled with a direct driven turbo pump for continuous operation. It is certified to IP6X standard (conductive dust).

Part No 13C67A0VDO 400 V, Non Conductive dust

Part No 13768A0VDO 400 V, Conductive dust



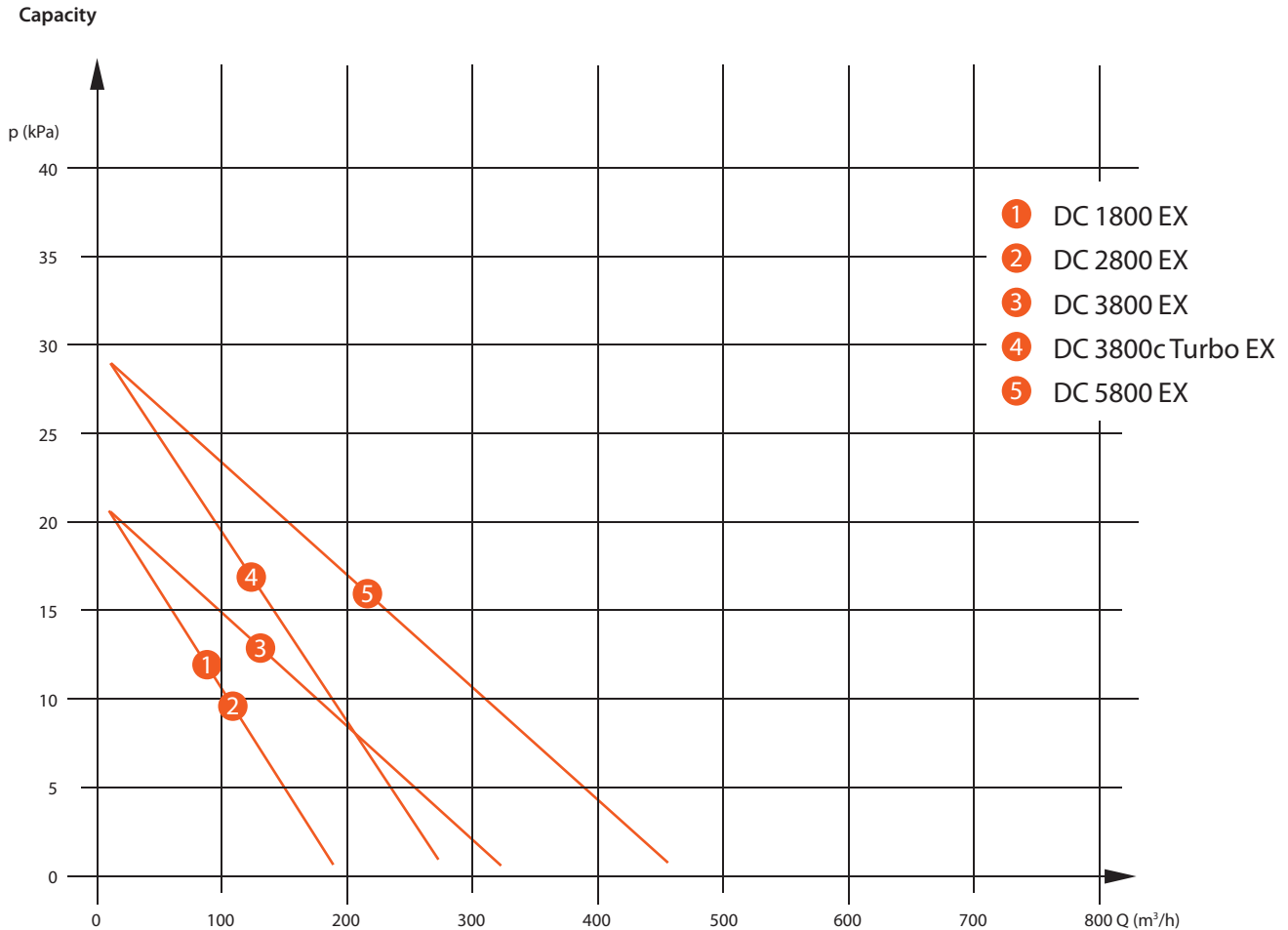
DC 5800 EX

The DC 5800a/c PTFE 5 kW is delivered as standard with the following:

- Suction hose Ø 50 (Part No 2013)
- Floor nozzle (Part No 7238)
- Suction pipe Ø 50 (Part No 7265)
- Filter (Part No 429204)

TECHNICAL DATA-DC5800EX

Weight	ca 180 kg
Flow at open inlet	470 m ³ /h
Negative pressure, max	28 kPa
Power consumption	5 kW
Noise level	75 dB(A)



TECHNICAL DATA	DC 1800 EX	DC 2800 EX	DC 3800 EX	DC 3800 Turbo EX	DC5800EX
H x W x L (mm)	740 x 380 x 380	1110 x 440 x 550	1446 x 600 x 700	1400 x 600 x 970	1920 x 760 x 1000
Weight	10 kg	19 kg	35 kg	62 kg	ca 170 kg
Inlet	X 50 mm	Ø 50 mm	X 50 mm	X 50 mm	X 50 mm
Hose length (Ø 50)	5 m (Ø 38)	5 m (Ø 38)	5–10 m	5–15 m	5–30 m
Flow at open inlet	190 m³/h	190 m³/h	320 m³/h	260 m³/h	470 m³/h
Negative pressure, max (115/230 V)	21 kPa	21 kPa	21 kPa	28 kPa	28 kPa
Power consumption (115/230 V)	1100 W	1100 W	2 200 W	2.5 kW	5 kW
Filter area, fine filter	1.5 m²	1.5 m²	1.8 m²	1.8 m²	8.4 m²
Degree of separation fine filter					
EN 60335-2-69, Class M	99.9 %	99.9 %	99.9 %	99.9 %	99.9 %
Filter area microfilter	0.85 m²	0.85 m²	1.5 m²	1.5 m²	2.5 m²
Degree of separation					
microfilter N 1822-1	HEPA H13	HEPA H13	HEPA H13	HEPA H13	HEPA H13
EN 60335-2-69, Class H	99.995 %	99.995 %	99.995 %	99.995 %	99.995 %
Collecting sack	15 l	40 l	40 l	40 l	60 l
Noise level (115/230 V)	68 dB(A)	68 dB(A)	75 dB(A)	75 dB(A)	75 dB(A)

Compressed Air Dust Extractors

DC 3800 TR S – Air driven dust extractor for cleaning and source extraction

The DC 3800 TR S is a compressed air driven extractor for use in areas where electrical power is not available or practical. The ejector is manually operated. The DC 3800 TR S can be used for source extraction from grinding, drilling and sawing tools as well as for cleaning. The DC 3800 TR S is constructed from the same components as the DC 3800c Turbo with the turbo pump and tool basket being replaced by a silenced ejector. The DC 3800 TR S is provided with a HEPA filter.

Part No 1365FJ0600

DC 5800 TR – Air driven dust extractor for heavier applications

The DC 5800 TR is a machine driven by compressed air for use in areas where electricity is not available or not permitted. DC 5800 TR has a very robust design and extra high extraction power, which makes it ideal for source extraction on bigger machinery and in mines. It is also ideal for source extraction from most types of hand held power tools.

Part No 1366FJ0800
1365fj0600



DC 3800 TR S

- The DC 3800 TR S is delivered with:
- Fine filter polyester (Part No 42025)
 - 5 plastic sacks, (Part No 4110)
 - HEPA filter (Part No 42024)

TECHNICAL DATA – DC3800TR S

H x W x L mm	1390 x 600 x 920
Weight	38 kg
Inlet	X 50 mm
Hose length	5-15 m
Flow at open inlet	300 m ³ /h
Compressed air consumption at 6 bar	1.8 m ³ /min
Neg pressure, max (6 bar)	20 kPa
Fine filter area	1.8 m ²
Degree of separation	
EN 60335-2-69, Class M	99.9 %
Micro filter area	1.5 m ²
Degree of separation micro filter	
EN 60335-2-69, Class H	99.995 %
EN 1822-1	HEPA H13
Collection sack	40 l
Noise level	75 dB(A)

DC 5800 TR

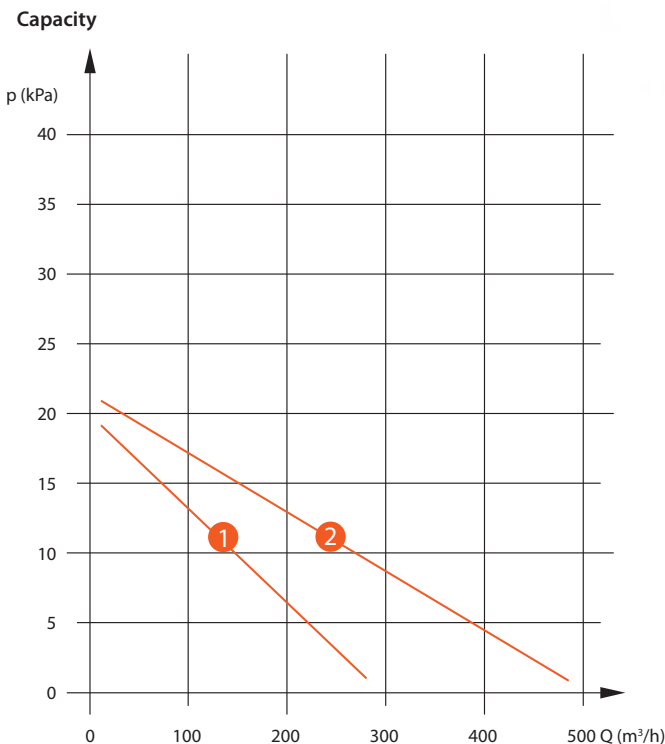
- The DC 5800 TR is delivered with:
- 5 plastic sacks (Part No 4614)
 - Fine filter (Part No 429204)
 - Filter (Part No 4422)

TECHNICAL DATA – DC5800TR

HxWxL (mm)	1800x760x1000
Weight	150 kg
Inlet	X 76 mm
Hose length	5-15 m
Flow at open inlet	500 m ³ /h
Compressed air consumption at 6 bar	2.5 m ³ /min
Neg pressure, max (6 bar)	21 kPa
Fine filter area	8.4 m ²
Degree of separation	
EN 60335-2-69, Class M	99.9 %
Micro filter area	2.5 m ²
Degree of separation micro filter	
EN 60335-2-69, Class H	99.995 %
EN 1822-1	HEPA H13
Collection sack	60 l
Noise level	75 dB(A)

DC 3800 TR S AND DC 5800 TR can be ordererd with antistatic accessories to fulfil the requirements of the ATEX Zone 22 directive 1999/92 ATEX 137.

- 1 DC 3800 TR S
- 2 DC 5800 TR



Wet-Vac

- Robust chassis
- Stainless steel container
- Powerful 1400 W motor
- 175 l/min discharge pump
- Easy disassembly and easy to clean
- Re-useable nylon filtration sack
- Standard coupling to drain hose



DC 2800w – Picks up slurry from wet cutting operations

The slurry is collected in the unit for positive containment and de-watering in the internal filter bag. An internal submersible pump drains the unit continuously in demanding applications. Separate pump switching allows the unit to be used without the pump for smaller water volumes. All standard cleaning accessories can be used with the unit. Simple disassembly allows for thorough cleaning.

Part No 1394430NJ0, 230 V

Part No 1394450NJ0, 230 V, UK

Part No 13943130NJ0, 115 V, UK

Part No 1394320NJ0, 115 V, US/CAN



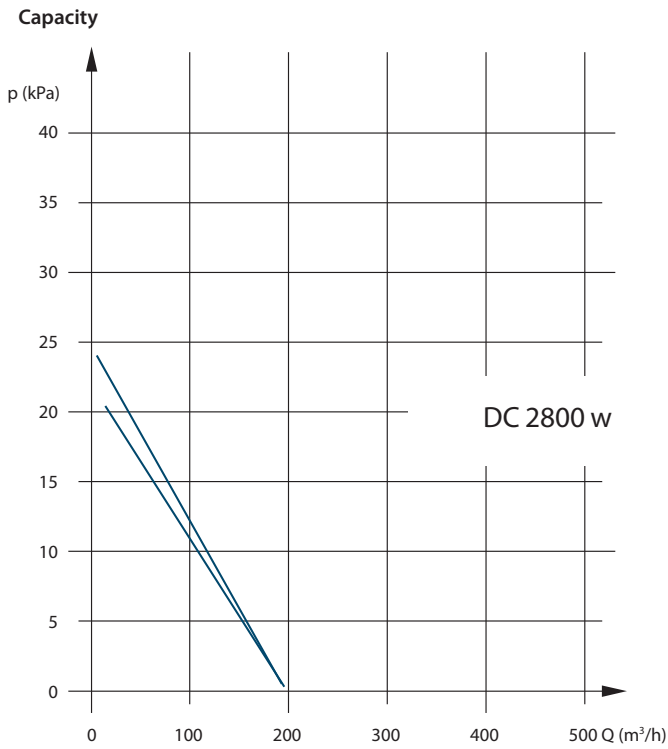
DC 2800w

The DC 2800w is delivered as standard with the following:

- Suction hose Ø 38, 5 m (Part No 2012+2108+2115)
- Floor nozzle B 370 (Part No 7236)
- Suction pipe Ø 38 (Part No 7258)
- Filter sack (Part No 42174)

TECHNICAL DATA – DC 2800w

Weight	37 kg
Negative pressure, max 110/230 V	21/24 kPa
Air-flow at open inlet	190 m ³ /h
Vacuum motor, 1 phase 110/230 V	1 200/1400 W
Noise Level	75/68 dB(A)



TECHNICAL DATA

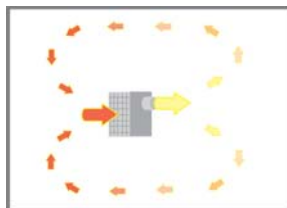
H x W x L (mm)	950 x 540 x 605
Weight	37 kg
Outlet/Inlet	Ø 50 mm
Hose length (extra accessories)	5 m (Ø 50)
Negative pressure, max 110/230 V	21/24 kPa
Flow at open outlet	190 m ³ /h
Vacuum motor, 1 phase 110/230 V	1200/1400 W
Pump, 1 phase	420 W
Container volume	75 liter
Pump lift height	7 meter
Water hose connection	1" hose barb
Pump capacity	175 liter/min
Particle capacity	max 10 min
Noise level	75/68 dB (a)



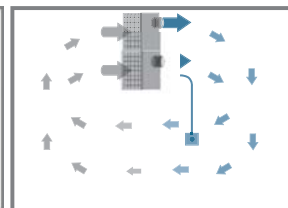
Fitted with an H13 classed HEPA filter

The DC AirCube is an air cleaner suitable for many applications. By circulating the air through a highly efficient HEPA filter, the air in the room is cleaned by removing the hazardous airborne dust that is harmful to health. The most dangerous particles are those that are so small that they are invisible to the eye.

The DC AirCube is designed to separate fine and hazardous dusts down to 0.3 microns. An example of such particulate could be quartz dust, which is found in concrete, brick, grout and mortar. When hammering, wall grinding, concrete grinding, or during demolition work, kitchen and bathroom renovations, and general construction, the AirCube is an ideal solution. It is also a popular choice in bakeries and carpentry workshops since it purifies the air and filters health hazardous flour or wood dust.



By circulating the air through a highly efficient HEPA filter, the air in the room is cleaned from airborne dust.



One or several DC AirCubes can be mounted in the ceiling in e.g. a bakery or in a wood-work factory.



DC AirCube – Remove airborne dust in small areas

The DC AirCube has been developed for ease of use and high durability. It is built from stainless alu-zinc coated sheet metal to be extra damage resistant. The fan unit is a radial blower with a purpose built casing to build up a high pressure across its complete flow range. This means that the unit works with a large airflow during the entire lifetime of the filter. An exhaust hose can be used to create negative pressure in a sealed room. The fan has two speed settings that allows for economical running, for example during the night.

Part No 111700, 230 V

Part No 111702, 230 V, UK

Part No 13A1110000, 115 V, UK

Part No 111605, 115 V, US/CAN

DC AirCube Rental – An AirCube for the hire industry

The DC AirCube Rental has been primarily developed to meet the requirements of the hire industry. All models are equipped with an operation timer and a indicator light that record filter usage. These two features help to optimise filter changes so filters are only replaced when necessary.

Part No 13A1130003, 230 V

Part No 13A1150003, 230 V, UK

Part No 13A1110003, 115 V, UK

Part No 13A1120003, 115 V, US/CAN



TECHNICAL DATA – DC AirCube

Weight	13 kg
Flow at open outlet	400 m ³ /h
Negative pressure	max 400 Pa
Power consumption	230 V, 170 W/115 V, 190 W
Noise level	48 dB(A) speed 1 67 dB(A) speed 2

Technical Data – DC AirCube Rental

Weight	13 kg
Flow at open outlet	400 m ³ /h
Negative pressure	max 400 Pa
Power consumption	230 V, 170 W/115 V, 190 W
Noise level	48 dB(A) speed 1 67 dB(A) speed 2

DC AirCube x2 – Double AirCubes for very dusty environments

The DC AirCube X2 is basically two DC AirCubes stacked together for increased efficiency in particularly dusty environments such as construction sites.

Part No 113400, 230 V

Part No 113402, 230 V, UK

Part No 113403, 115 V, UK

Part No 113405, 115 V, US/CAN



Technical Data – DC AirCube X2

Weight	30 kg
Flow at open outlet	800 m ³ /h
Negative pressure	max 400 Pa
Power consumption	230 V, 2x170 W/115 V, 2x190 W
Noise level	48 dB(A) speed 1 67 dB(A) speed 2

Technical Data DC AirCube DC AirCube Rental DC AirCube X2

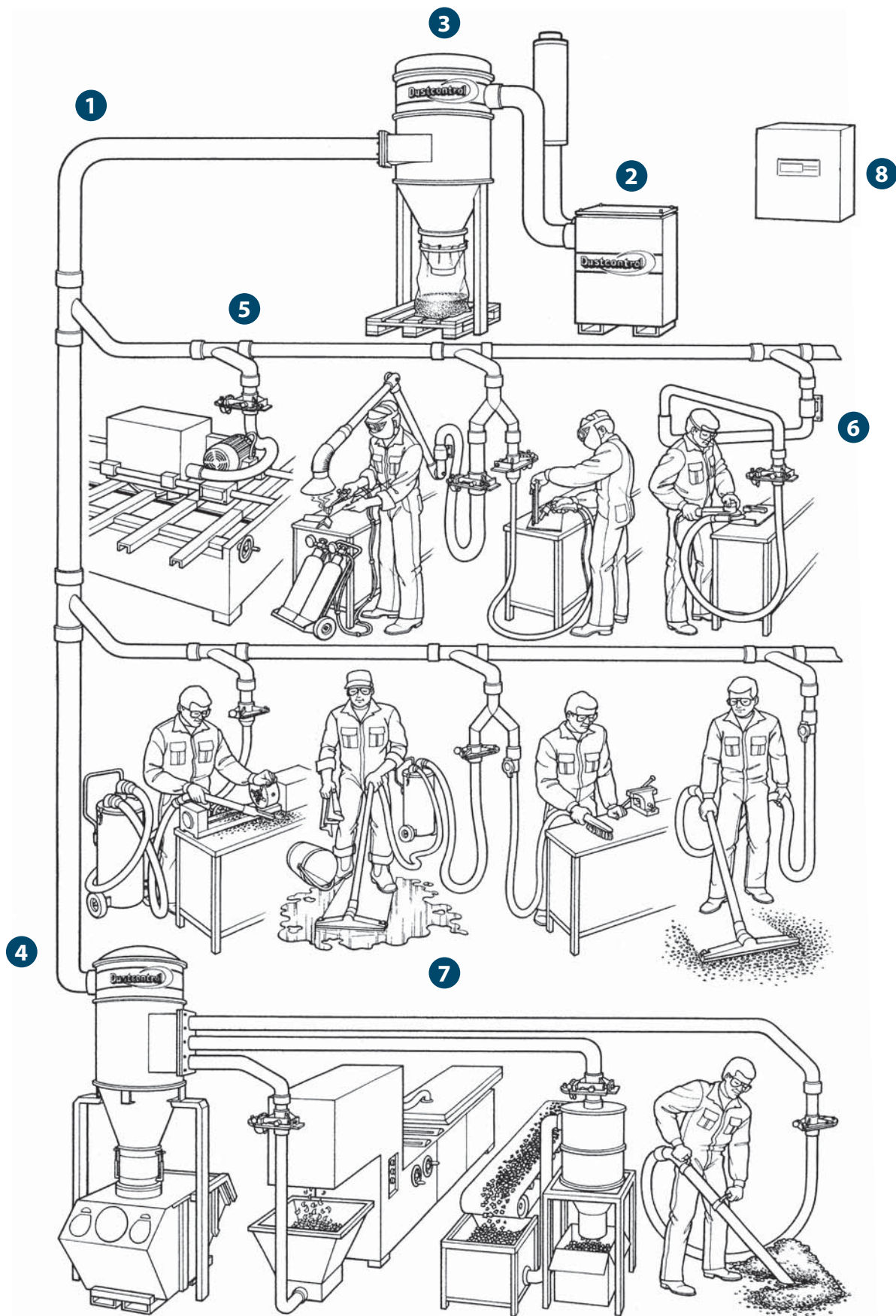
Technical Data	DC AirCube	DC AirCube Rental	DC AirCube X2
H x W x L (mm)	380 x 380 x 340	380 x 380 x 340	850 x 485 x 365
Weight	13 kg	13 kg	30 kg
Outlet/Inlet	Ø 125 mm	Ø 125 mm	2 x Ø 125 mm
Hose length (extra accessories)	5–10 m (Ø 125)	5–10 m (Ø 125)	5–10 m (Ø 125)
Flow at open outlet	400 m ³ /h	400 m ³ /h	800 m ³ /h
Negative pressure	max 400 Pa	max 400 Pa	max 400 Pa
Power consumption	230 V, 170 W/115 V, 190 W	230 V, 170 W/115 V, 190 W	230 V, 2x170 W/115 V, 2x190 W
Degree of separation micro filter			
EN 60335-2-69, Class H	99.995 %	99.995 %	99.995 %
EN 1822-1	HEPA H13	HEPA H13	HEPA H13
Noise level	48 dB(A) speed 1 67 dB(A) speed 2	48 dB(A) speed 1 67 dB(A) speed 2	50 dB(A) speed 1 70 dB(A) speed 2

Dustcontrol at your service!

Large savings can be made when an extraction system from Dustcontrol is installed. Some example situations could be:

- Suction casings mounted on grinding machines in the fibreglass industry: By capturing the dust where it is created improves the working environment, resulting in less cleaning and better product quality.
- Cleaning of saws, turning equipment and other machinery with a centralised vacuum system. Large savings can be made by working faster, lubrication can be recycled, material chips can be handled more efficiently and machines have fewer problems when they are clean.
- Source extraction of chips and oil/lubrication directly at the point of their production: Cleaner parts throughout the operation of the process resulting in quality improvements. At the same time, parts and machinery need less cleaning.
- Smoke extraction, integrated on torch, when welding: Health risks are reduced by eliminating welding fumes. Integrated extraction guarantees that the extraction is close to where the smoke is generated, thereby preventing airborne pollution.
- Extraction systems and cleaning equipment in bakeries reduces the airborne flour dust that is dangerous to health and can cause asthma: The health and safety regulations are met and at the same time the workplace environment and overall efficiency is improved. Less health problems from employees will also save money in this industry.
- Extraction systems in the pharmaceutical industry for extraction directly from production machines and for cleaning of equipment. To eliminate toxic substances being emitted from pharmaceutical production is a must from a health perspective as well as a product quality issue.





1. Complete system
2. Vacuum producer
3. Filter unit

4. Pre-Separators
5. Tubing System
6. Work Place Equipment

7. Accessories
8. Control system

The Complete System

1 Introduction

To attain the desired benefits with an extraction system, the system must be complete, from the suction casing to the vacuum producer. All the components of the system are equally important in implementing its' functionality.

2 Vacuum Producers

The vacuum producer is the heart of the system. Here the negative pressure is created that drives the system. In Dustcontrol extraction systems, the vacuum level is generally from 6–40 kPa.

Our normal source extraction and vacuum cleaning systems use turbopumps. This device has an ideally suited characteristic capacity for this type of system. Vacuum level increases as more resistance is presented, an important quality in minimizing the possibility of blockages in the tubing system.

For applications involving fume and light dust, such as paper, radial blowers are used. These have larger air-flows and operate at a lower, relatively constant vacuum level.

Our turbopumps and radial blowers have very high quality silencing, see technical specifications.

3 Filter Units

An extraction system should always be equipped with a filter unit. The filter unit separates coarse material in the cyclone body of the unit and fine dust in an internal arrangement of conical pleated cartridge filters. Pleated filters have very high filter areas in relation to their physical size. The filter units therefore have high capacity while maintaining compact overall dimensions.

Filters are cleaned with reverse pulse which results in very effective cleaning, long filter life and low maintenance.

Normally the filter units are equipped with a plastic sack for collection of the extracted material but other types of discharge arrangements can also be installed.

4 Pre-Separators

Pre-separators can be used in all applications where the extracted material is coarse or voluminous. These can be placed in the actual workplace for separate handling or recovery of the extracted material, or centrally.

Pre-separators separate material from the air flow using the action of a cyclone or with inertial separation. Inertial separators are generally configured as containers with the inlet and outlet in the same wall of the container. When the air flow changes direction abruptly, separation occurs for the particles with higher relative mass.

When pre-separation is used to accommodate higher material volumes it is also important to consider the type of material discharge to be used. Dustcontrol offers a range of different standard options including; screw compaction, airlocks or container collection.

5 Tubing System

The tubing system transports the material from the point of collection to the central unit. Dust is generally abrasive, some more than others,

therefore the standard material thickness of the tubing system is 1.5 mm. Applications with fume and light dust use reinforced spiral duct. Stainless tubing systems and extra abrasion resistant fittings are available.

Dustcontrol has a very comprehensive assortment of tubing fittings and installation hardware. This gives greater flexibility in design and installation of our tubing systems. Our mechanical jointing system makes alterations and additions very easy to carry out. Cones, branch pipes and bends are manufactured in EPDM- and NBR- rubber. The components are hard-wearing and sound absorbing.

6 Work Place Equipment

An extraction system is sized for only those outlets which are to be used simultaneously. This is in order to maximise efficiency and minimise the size of the central unit. All outlets must have some type of closure, either a valve or shutter. These can be manually actuated, such as flap valves or manual shutter valves, or automatically controlled for actuation only when extraction is required.

The Flexpipe can be used for fume extraction, high flexibility and small diameter allow it to be placed very close to the fume source. Overhead suspension arrangements such as swing-arms and hose reels can increase the usefulness of the system, increase ergonomics and minimize potential trip hazards from hose left on the floor.

When large volumes of material are to be introduced into the system, stainless floor funnels can be used from which the material is then extracted.

7 Accessories

A hose must have many qualities, the foremost for the operator however is flexibility. It should also be tough enough to withstand the abrasion created when transporting the extracted material. Hose selection should include consideration of abrasion, chemical and heat resistance as well as conductivity to static electricity. Dustcontrol has a comprehensive assortment of hose types, diameters and hose connections.

Cleaning tools, suction casings and special nozzles are those components that are actually used to capture the dust. The design and effectiveness of these will determine the efficiency and acceptance of the entire system. This demands a varied and complete assortment of specially designed products. Dustcontrol has that. If a standard product does not exist, we have the capacity to design and manufacture it.

8 Control Systems

Motor starters and System Control Panels control the operation of the system, both operation of the vacuum producers and cleaning of the filter. A variety of other control functions can be installed as required. Even with a rather basic control system, intelligent features can be included to clear coarse material in the main tubing runs or control vacuum production and therefore energy consumption according to actual requirements.

Planning and Design of Extraction Systems

Considerations

The following points must be considered and a clear definition must be developed before design of the system can be undertaken.

- Determine the function of the system – source extraction, cleaning or pneumatic transportation. In many cases it can be wise to equip the system for different functions apart from the main function of the system, e.g: cleaning.
- Choose the outlet configuration. Determine for each outlet the type of extraction equipment required as well as the type of closure (automatic or manual). To determine this, a detailed study of the types of activities in each work place must be undertaken. Determine the number of outlets in simultaneous use. The system will be designed for a maximum number of users at any point in time. In larger systems, the number of simultaneous users in different parts of the system should be determined.
- Decide the routing of the tubing runs and location of the central unit. Consider the degree of difficulty for installation; ceiling height, wall and roof perforations, moving equipment into place, etc.
- Consider the type of material to be extracted, the degree of abrasion, risk for explosion and risk for clogging, etc.
- Determine the volume of material to be collected per unit time. Select the type of pre-separator and type of material handling for collected material. Material discharge etc, must be determined according to the customers wishes.
- Select the type of control system to be used, for example; programmable start – stop or intermittent running.
- Determine electrical and compressed air supply requirements for the system. Indicate location of the requirement and assign responsibility for the supply and installation.

Tube Sizing

The tube dimensions are selected on the basis of maintaining the correct transportation velocity in all parts of the tubing system. It is necessary not only to consider the velocity in the main runs but also in all the branches of the tubing system. The tube diameter should be selected so that a velocity of > 20 m/s is maintained for particle transportation – for fume, a lower velocity of > 12 m/s is used.

As an exception in normal systems, we recommend that the smallest tube diameter be 76 mm, even if the minimum transportation velocity recommended is not maintained.

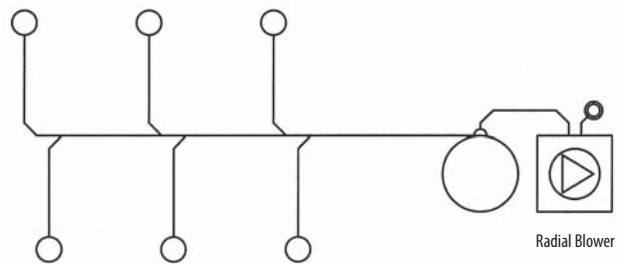
System Design

Always try to maintain a star configuration for the tubing system where the main runs are of more or less equal length leading to the central unit in the middle.

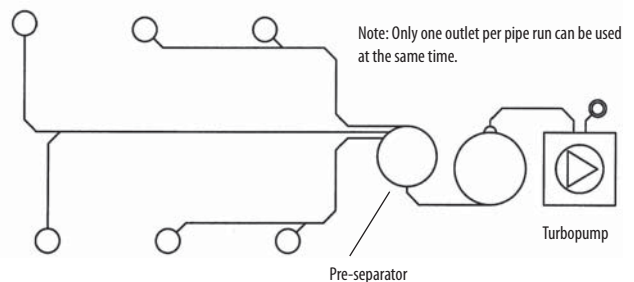
A balancing of the system must be done to ensure that air-flows are sufficient for proper extraction at all points in the system and that transportation velocities are maintained.

In a system for fume extraction, a large main duct can distribute the system's capacity. Any combination of outlets can be used. Conversely, in a system for the pneumatic transportation of heavy material, the transportation velocity must be maintained. In these systems, one open outlet per tubing run is the norm (usually 76 mm).

Typical tubing configuration for light dust and fume



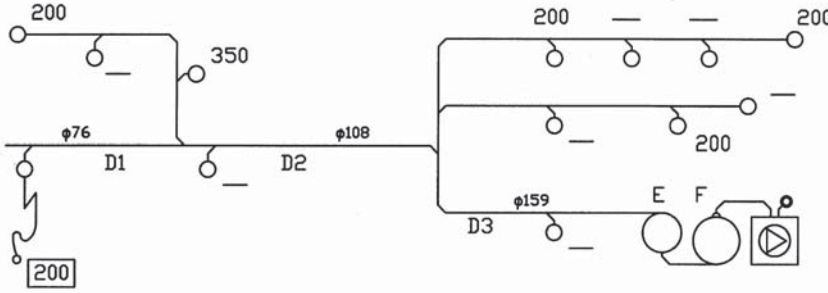
Typical tubing configuration for heavy cleaning and material transportation



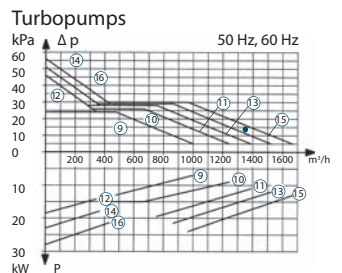
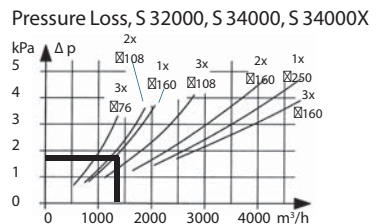
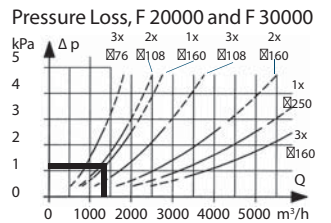
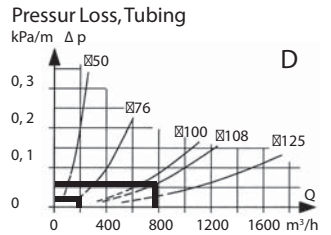
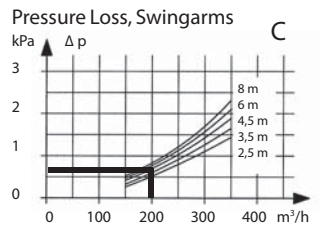
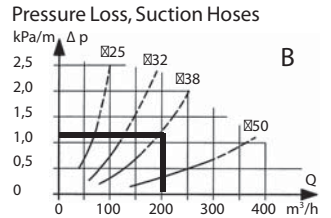
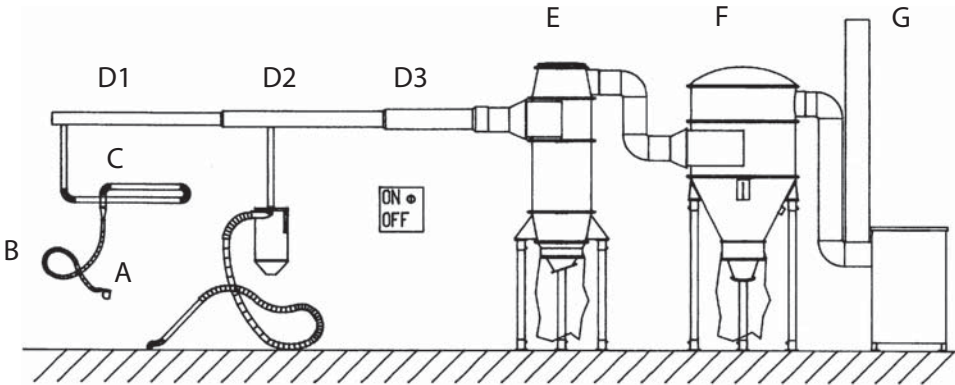
Design

The system's capacity is determined by the worst case – usually the maximum number of users with the highest air-flow collectively. If you

are unable to determine which scenario gives the highest pressure loss, several calculations may need to be performed.



Design flows in m³/h given for outlets in use simultaneously. Pressure loss is calculated from the outlet at the lower left.



System Part	Q	Calculation	Δ p
A Suction Casing, hand-held Tool	200 m³/h	Table page 61 Δp = 3.5 kPa	3.5 kPa
B Hose Ø 38x3m	200 m³/h	Δp = 1.2 kPa/m x 3 m = 3.6 kPa	3.6 kPa
C Swingarm 4.5 m	200 m³/h	Δp = 0.7 kPa	0.7 kPa
D1 Tubing Ø 76 x 10 m + bends (bend is counted as 2 m)	200 m³/h	Δp = 0.02 kPa/m x (10 + 4)m	0.28 kPa
D2 Tubing Ø 108x15 m	750 m³/h	Δp = 0.06 kPa/m x 15m	0.9 kPa
D3 Tubing Ø 159x25 m + 4 bends	1350 m³/h	Δp = 0.02 kPa/m x (25 + 8)m	0.7 kPa
E Pre Separator, F 20000	1350 m³/h	inlet Ø 160: Δp = 1.1 kPa	1.1 kPa
F Filter Unit, S 32000	1350 m³/h	inlet Ø 160: Δp = 1.8 kPa	1.8 kPa
	Total pressure loss	12.6 kPa	
	With safety factor 10%	Δp = 12.6 kPa x 1.1 = 13.9	13.9 kPa

Design capacity: 1350 m³/h @ 13.9 kPa
 Vacuum Producer Selection: TPR 50, 30 kW

Material Transport

To transport larger volumes of coarse dust or other material requires a series of special considerations to minimise the possibility of clogs in the tubing system or problems discharging collected material. Analyse both the type and volume of material according to the following considerations:

1. Material Volume

- Average volume litre/hour
- Max. volume litre/hour

2. Material Characteristics

- Description of material
- Material created by
- Particle size distribution
- Bulk density
- Max. moisture content
- Hygroscopic material?

- Chemically aggressive material?
- Explosible material

3. Abrasion and Clogging

- Abrasive material
- Bridging°

Test with a paper cone for the included angle that facilitates free flowing of the material.

4. Operating Conditions

- System in operation hours/day
- Filter cleaning
 - a) after shut down
 - b) during operation
- material to be introduced into system with
(suction lance, floor funnel, etc.)
- transport distance m
- number of bends pcs

Configuration of Extraction Systems for Material Transportation

- The system should be designed for transportation velocities from 20 – 25 m/s. Higher velocities result in increased wear. Ensure minimum transportation velocity is maintained in the tubing system (only one outlet in use per run).
- Select tools and accessories which allow sufficient transport air into the system.
- Minimize the number of 90° bends. Never install two 90° bends closer together than 25 times the tube diameter.
- Select horizontal or vertical tubing runs. Avoid sloping runs where material "cornering" may occur. In sloping runs material will have a tendency to precipitate and run down against the direction of flow in the bottom of the tube.
- Select, hose, tubing and separator with consideration to abrasion.
- Select material discharge with consideration to the consistency and volume of material to be discharged.
- Plan emptying intervals and routines (plastic bag or container).

Pressure Loss Calculation in a Material Transport System

Pressure loss calculations for this type of system are influenced by a number of different factors and exact calculations can be very complex. In general, the following calculation can be used. With material loadings greater than 1:1 (= 1,2 kg material per m³ air), a practical test should always be done.

Calculate the pressure loss for clean air from the extraction point to the pre-separator according to the calculation on the previous page. Calculate the added pressure loss that the transported material will result in according to the following:

$$\Delta p_{\text{material}} = \Delta p_0 \times m_1 / (Q \times 1,2) \text{ (kPa)}$$

where Q is air-flow in m³/hm₁ is material flow in kg/h

Calculate then the pressure loss for the remaining system (pre-separator to vacuum producer). Add this value together with the pressure loss value from the previous calculation. Add the safety factor to the sum of these.

Example:

Suction Lance	2 kPa
Hose	8 kPa
Tubing	3 kPa
Sum	13 kPa

Air-flow	350 m ³ /h
Material flow	100 kg/h

Added pressure loss from material $\Delta p = 13 \times 100 / (350 \times 1.2) = 3 \text{ kPa}$

Pre-separator	2 kPa
Filter unit	2 kPa
Sum	4 kPa

Sum tot 13+3+4=20 kPa

Safety factor 10% =>

Required negative pressure = 22 kPa

We solve your dust problem

The DC 11-module is a complete central unit for source extraction and industrial cleaning. The unit can manage everything from highly effective extraction on grinding machines to cleaning of lath and milling machines, separation of emulsion fluid and oil.

With the DC 11-module, we deliver a complete central unit from the factory. We build it exactly to your specific needs. This is possible due to an options based selection process. The DC 11-Module has been designed to produce more vacuum/kW. It can have 1-6 extraction points working at the same time. It has sound level of 65 dB(A) and can be equipped with a HEPA filter as an optional extra. The discharge system can be chosen in accordance with the material to be handled; this can have a big effect on ease of use of the system.

The DC 11-Module is also suitable for source extraction and general cleaning in smaller production units. Note that the unit can connect to many extraction points, as long as the number of users does not exceed the maximum capacity.

Optimised local solution

The design of a source extraction system is always based on the specific need at each work place. It is then possible to build a central unit designed for several extraction points, or local solutions at each work place. The advantage with local solutions is that you can build one unit at a time and optimise the equipment for the actual need.

The DC 11-module is developed to fulfill the demands of a local solution.



HEPA filter

The fine filter separates a large quantity of the fine dust, but has a limited separation of the smallest particles. In order to separate almost all the small particles the unit should be equipped with a HEPA filter. We recommend that the HEPA filter is always used when the air is returned into the working environment. With hazardous dust we recommend the use of a HEPA filter even if the air is vented outside.

Safechange

When dealing with unhealthy and hazardous dust, the filters (fine and HEPA filter), should be able to be changed without exposure to the personnel or surroundings. The same applies for changing the bags. By choosing the safechange solution, which includes the HEPA filter, a system is designed that keeps negative pressure in the cyclone during this operation. By putting plastic bags over the filters before they are changed, protection against dust can be maintained.

Control panel

The electrical function is built into the machine. The unit is started manually with a start button, automatically when any of the extraction points are opened and micro-switches are used or by clock control. Filter cleaning is automatic after shutdown of the vacuum. More complex controls can be delivered, such as frequency converter or automatic functions e.g. for airlock discharge, but are not presented here. You can also choose if the unit should be a fixed installation or delivered with a Euro connection (5.5/7.5 kW/10 HP).

Vacuum producer

The vacuum producer is a direct driven turbo pump with high durability and low service requirements. The performance curve for the pump has excellent characteristics for the typical applications. The 7.5kW unit has a frequency converter where the motor can be adjusted to three different speeds and maximise efficiency.



Filter unit

The filter unit separates the larger particles in the cyclone and the finer dust in the pleated conical filter. The filter is cleaned very effectively with air pulse. Normally, compressed air is used for filter cleaning, but manual filter cleaning that does not require compressed air can be chosen as alternative. The filter unit separates everything from fine dust to chips and fluids.

Outlet/Exhaust

For fixed installed extraction systems it is always recommended to exhaust the air out of the building. In doing that, all particles, even gas, are lead out of the building. With the help of a HEPA filter, almost all the particles can be eliminated. In a big industrial building, exhausting to atmosphere can be quite difficult sometimes. In these cases an alternative is to exhaust the air directly under the lid of the capsule (5.5/7.5 kW/10 HP). Note however there might be local restrictions.

Discharge of material

Discharge of dust, fluids and heavy material is done under the cyclone. A number of different solutions can be chosen. The most common is plastic bag or container. There are containers in different sizes. They can also be equipped with wheels, internal plastic bag, level glass and a drain tap for lubricants. It is also possible to discharge into an open container or onto a conveyor belt. It is also possible to discharge continuously with a peristaltic airlock, but this requires extra electrical controls.

Mobile unit

The DC 11-Module is designed so it will always be possible to move with a fork lift. By choosing to equip the unit with wheels and handle, a mobile unit is created that even with its large size and weight, is possible to move on an industrial floor. It can be used as a very powerful mobile unit. There is also the possibility to create a semi-mobile unit where it is docked to a pipe system, but can also be moved to other parts of the building when necessary.

DC 11Module

The DC 11-module is always built complete from the factory with:

- Direct driven three phase turbopump – long lifetime.
- Sound absorbent around vacuum producer.
- Filter unit with separation of particles in cyclone and fine fraction particles in pleated filter.
- Filter cleaning with air pulse.
- Collecting equipment for the separated material e.g. steel container.

Accessories

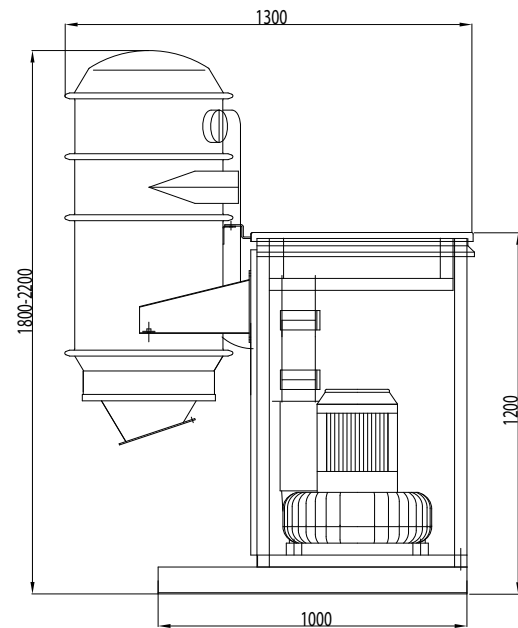
Part No **42409** Plastic sack for SafeChange

With motor controller soft start (14123Gx, 14136Gx, 14146Gx)

- Main switch
- Soft start for turbo pump
- Manual start and stop
- Equipped with programmable clock start/stop
- Prepared for remote start with micro switches
- Switch for manual filter cleaning
- Prepared for filter cleaning during operation
- Alarm indicator
- Timers adjusted from display panel

With frequency converter (14134Lx)

- Main switch
- Frequency converter. The speed can be set at one of three different



- levels.
- Switch for selecting RPM
- Manual start and stop
- Prepared for remote start with micro switches

TECHNICAL DATA 5.5 kW 7.5 kW 10 HP 12 kW 15 HP 12 kW 15 HP

Motor	50 Hz	50–70 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
RPM	3000 rpm	3000–4200 rpm	3600 rpm	3000 rpm	3600 rpm	3000 rpm	3600 rpm
Inlet	Ø108	Ø108	Ø108	Ø108	Ø108	Ø108	Ø108
Max dp	23 kPa	23–18 kPa	24 kPa	21 kPa	20 kPa	40 kPa	43 kPa
Nominal pressure	18 kPa	18–17 kPa	18 kPa	18 kPa	18 kPa	30 kPa	32 kPa
Max Q	450 m ³ /h	450–650 m ³ /h	600 m ³ /h	900 m ³ /h	1050 m ³ /h	450 m ³ /h	560 m ³ /h
Weight	200 kg	225 kg	225 kg	260 kg	260 kg	250 kg	250 kg
Noise level 1 m	62 dB(A)*	62–67 dB(A)*	65 dB(A)*	65 dB(A)	66 dB(A)	65 dB(A)	66 dB(A)

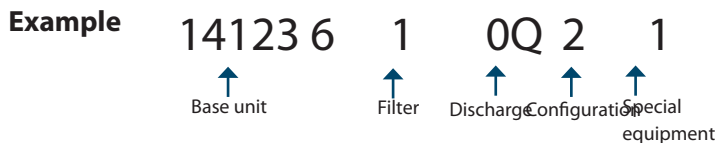
* With outlet and in-line silencer. With diffuser outlet the noise level is 5 dB(A) higher than the given figure.

Air pulse filter cleaning	all models
Air consumption	4 l/s, 4 bar
Hose connection	6 mm

Filter material in pleated polyester	all models
Part No	4292
Total filter surface	8.4 m ²
Degree of separation EN 60335-2-69 part 1	> 99.9 %
HEPA filter (optional)	
Part No	42136
Total filter surface	5.2 m ²
Degree of separation EN 1822-1 HEPA H13	99.95%
Max temp filter	80 °C

Electric connection for units without control panel 24 VAC, 19 A.
Note! Units with integrated control panel use 24 VDC, 19 A.

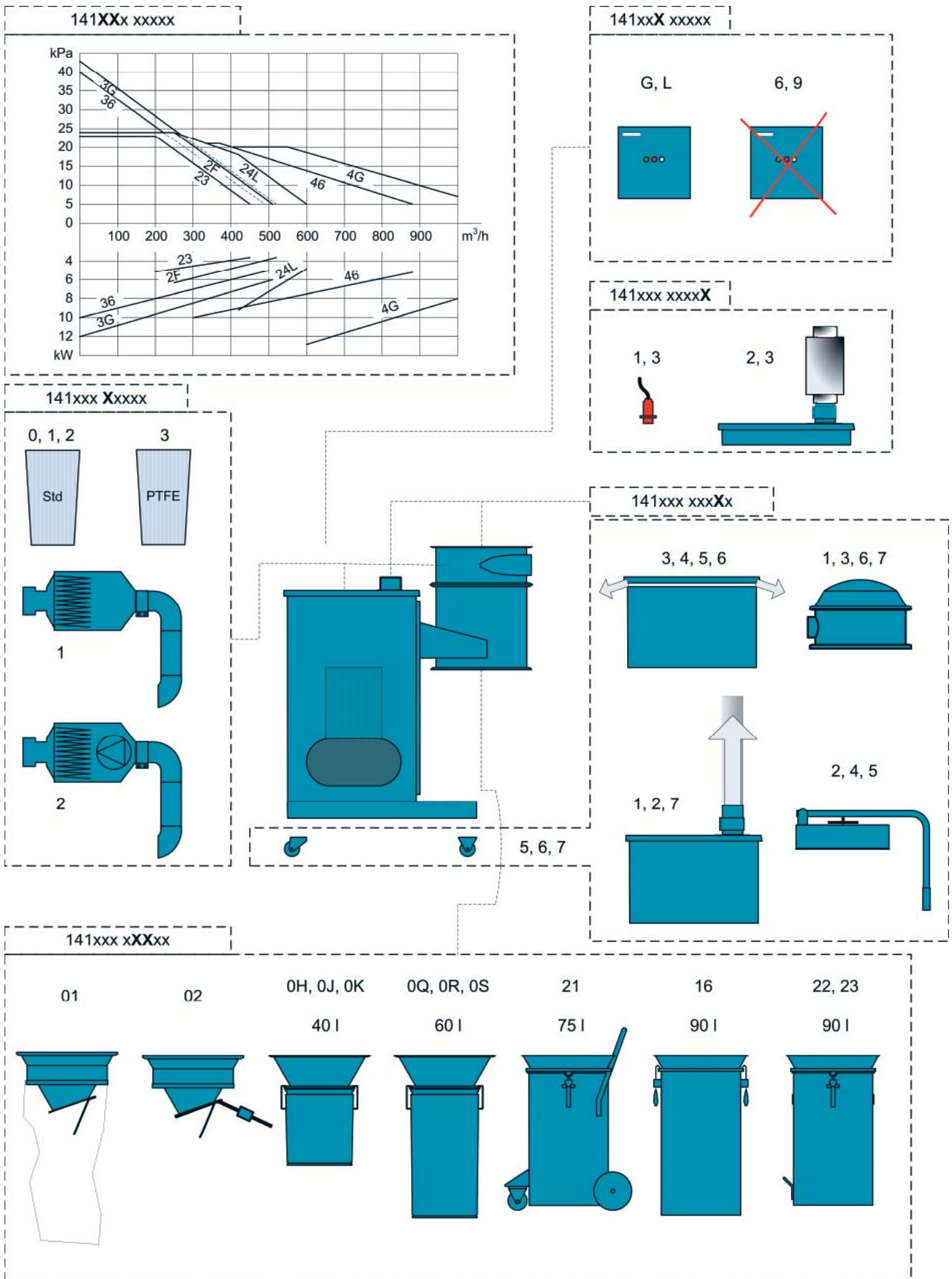
Choose an optimised solution

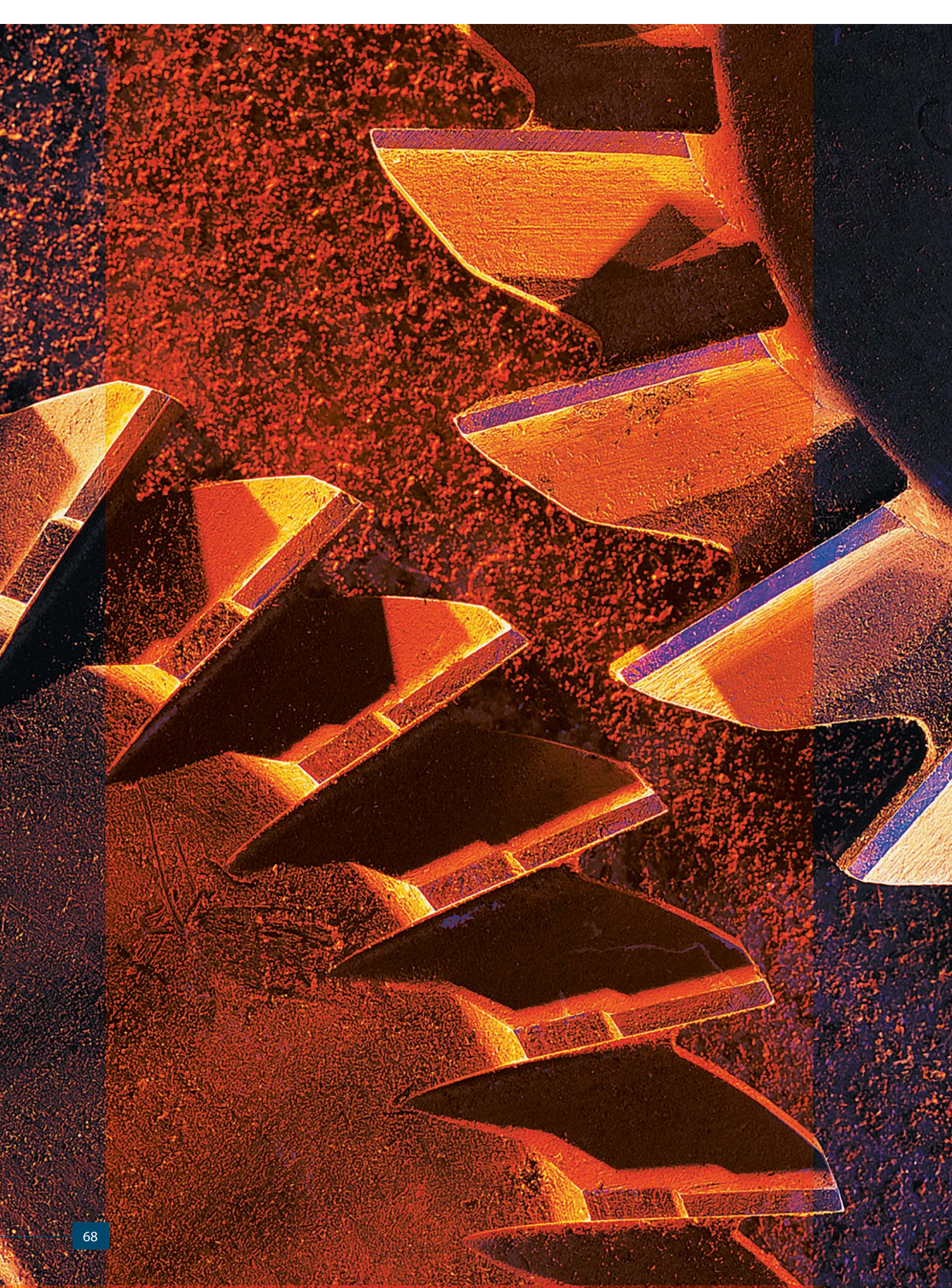


Part Numbers

DC 11- module	Base Unit	Filter	Discharge	Configuration	Special equipment
5.5 kW 400 V 50 Hz	14123 6				
5.5 kW 400 V 50 Hz with soft starter	14123 G				
7.5 kW 400 V 50 Hz	14124 6				
10 HP 460 V 60 Hz	1412F 9				
7.5 kW 380-480 V with frequency converter 3 speed	14124 L				
12 kW P 400 V 50 Hz	14146 6				
15 HP P 460 V 60 Hz	1414G 9				
12 kW P 400 V 50 Hz with soft starter	14146 G				
12 kW S 400 V 50 Hz	14136 6				
15 HP S 460 V 60 Hz	1413G 9				
12 kW S 400 V 50 Hz with soft starter	14136 G				
Filter Options					
Standard		0			
With HEPA		1			
Safe change		2			
PTFE		3			
Discharge					
Output in plastic sack (discharge cone 4706)			01		
Balance valve (4706 + 7131)			02		
Container 90 litre, steel, blue			16		
Container 40 litre; steel, blue			0H		
Container 40 litre; steel, blue with sight glass			0J		
Container 40 litre; steel, blue with sight glass and drain tap			0K		
Container 40 litre; steel, blue with sight glass, drain tap and bottom screen			0L		
Container 40 litre; stainless steel			0M		
Container 40 litre; stainless steel with bottom screen			0N		
Container 75 litre; stainless steel			0P		
Container 60 litre			0Q		
Container 60 litre; steel, blue with drain tap			0R		
Container 60 litre; steel, blue with drain tap and bottom screen			0S		
Container 75 litre; with plastic sack and wheel			21		
Container 90 litre; steel, blue with sight glass and travers ears			22		
Design					
Outlet, compressed air filter cleaning				1	
Outlet, manual filter cleaning				2	
Diffused silenced outlet, compressed air filter cleaning*				3	
Diffused silenced outlet, manual filter cleaning*				4	
Diffused silenced exhaust, manual filter cleaning, Mobile version*				5	
Diffused silenced exhaust, compressed air filter cleaning, Mobile version*				6	
Outlet pipe, compressed air filter cleaning, Mobile version				7	
Outlet pipe, manual filter cleaning, Mobile version				8	
Options					
Standard					0
Euro connection*					1
In-line outlet with sound silencer					2
Euro connection 32A with outlet silencer*					3

*Not for 12 kW/15 HP





DC 3800 Stationary package

The DC 3800 Stationary package is intended for installations in (for example) industrial premises, garage workshops and schools. The dust-separator and turbo pump are mounted on a common chassis.

The DC 3800 Stationary package has flow capacity for one work place at a time, for example a 6" cup stone or cleaning with 38 mm attachments. The filter is cleaned manually with a patented reverse pulse mechanism. The unit can be equipped with a vacuum relief valve to allow cooling air to the pump if all outlets are closed. The package is complete with tubing in three metre lengths, bends, branch pipes and connection joints.

Installation is simple and the tubing system is easily adaptable to most sites.

Starting and stopping of the central unit occurs automatically. Starting occurs when any of the outlets are opened. The central unit will shut down when all the outlets are closed.

Part No 114700 400 V 50 Hz 2.5 kW

Accessories

Description

Vacuum valve Ø 50

Part No

8253

Central unit

Central unit	Part No	Qty
DC 3800 Stationary 230/400 V 50 Hz 2.5 kW	117400	1
DC 3800 Stationary 230/460 V 60 Hz 4 HP	117408	1

Control systems

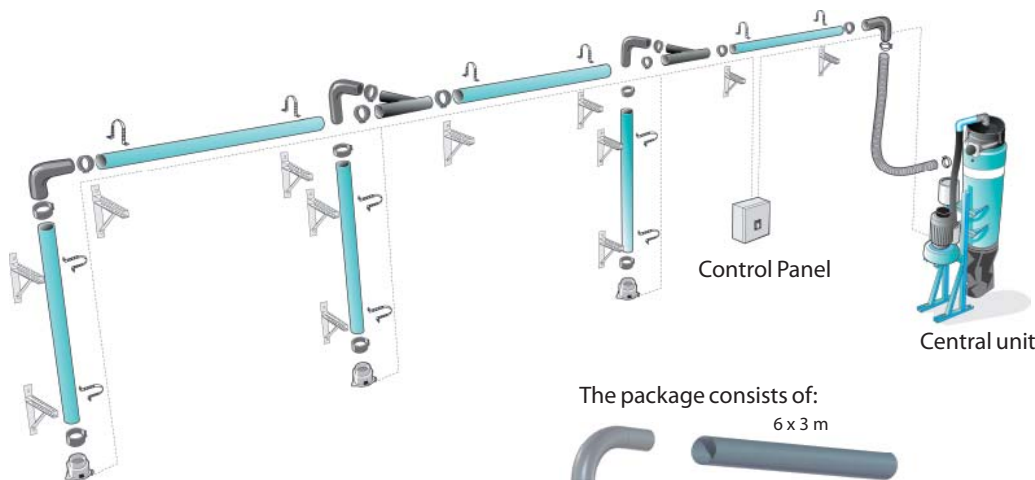
Control Panel 400 V 50 Hz 2.5 kW	8117	1
Control Panel 230 V 50 Hz 2.5 kW	8119	1

Connection Point

Flap Valve Ø 50 with micro switch	8433	3
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Tubing system

Pipe Ø 50 (L=3 m)	3071	6
Bend Ø 50,90°	3310	4
Bend Ø 50,45°	307311	2
Joint Ø 50	3077	8
Branch pipe 50/50	307411	2
Coupling socket 50/50	2107	2
Hose Ø 50 (L=5 m)	2401	1
Hose clamp 50-65	4219	2
Bracket 300	3008	12
Clamping band Ø 50	3107	12
Ceiling attachment (L=2 m)	9622	1



The two conductor cable for 24 V is not included in the package (electrical and connection schematic are included with the panel).

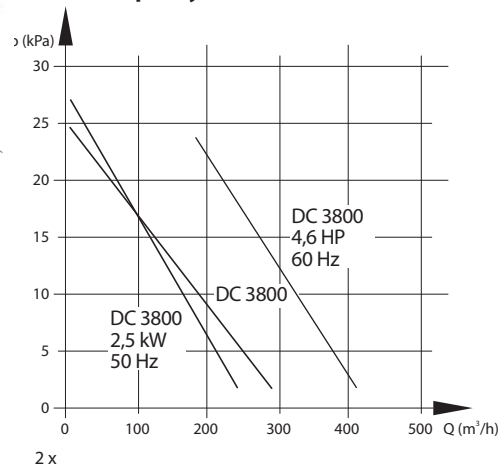
The package consists of:



TECHNICAL DATA

H x W x L mm floor mounting	1400 x 400 x 860
H x W x L mm wall mounting	1440 x 400 x 790
Weight	50 kg
Inlet/Outlet	Ø 50 mm
Flow at open inlet	260 m ³ /h
Neg. pressure	max 28 kPa
Power consumption	2.5 kW
Filter area, fine filter	1.8 m ²
Degree of separation	> 99.9%
A fine filter, polyester (Part No 42025), is fitted in this model.	
A HEPA filter is available as optional equipment.	
Collection sack	30 l
Noise level	< 75 dB (A)

Capacity





DC 3800 Stationary package

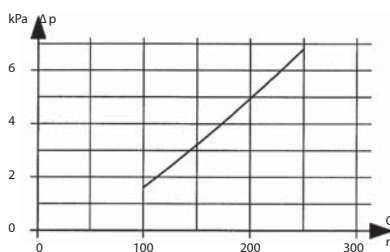
DC 3800 Stationary package is intended for installations in (for example) industrial premises, garage workshops and schools. The dust-separator and turbopump are mounted on a common chassis. The DC 3800 Stationary package has flow capacity for one work place at a time, for example a 6" cup stone or cleaning with 38 mm attachments. The filter is cleaned manually with a patented reverse pulse mechanism. The unit can be equipped with a vacuum relief valve for cooling air to the pump if all outlets are closed.

- Part No 117400 220-240/380-420V, 50 Hz, 2.5 kW
- Part No 117408 4 HP, 230/460 V, 60 Hz, 3.0 kW USA/CAN
- Part No 118500 220-240/380-420 V, 50 Hz,
2.5 kW Auto filter cleaning
- Part No 118504 4 HP, 460 V, 60 Hz,
3.0 kW USA/CAN Auto filter cleaning
- Part No 4314 Plastic Sack 30 litre, 50 pack

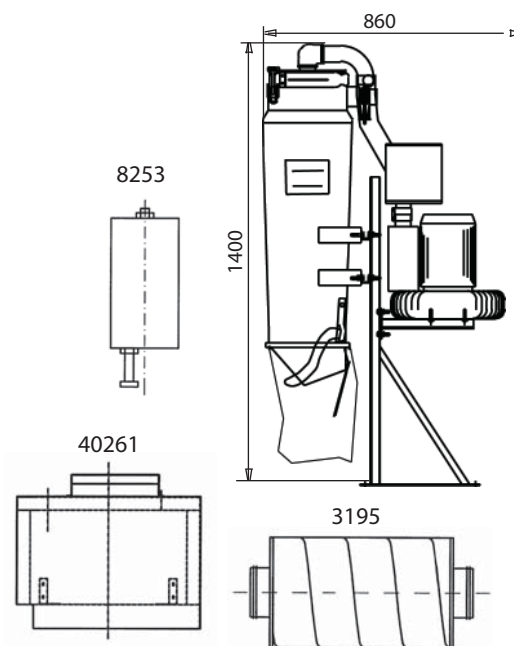
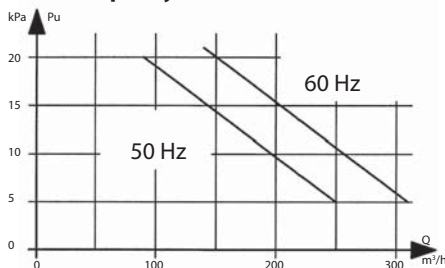
Accessories

- Part No 8253 Vacuum Relief Valve 50 mm
The vacuum relief valve is installed on the tubing system (inlet side) on a branch tube. This delivers cooling air to the turbopump and can be adjusted for the desired vacuum level in the system.
- Part No 3195 Silencer 80 mm 300/180
Used for exhaust silencing and also silencing of 50 mm vacuum valve.
- Part No 40261 Silencing Cover
The silencing cover will reduce the sound level 4 dB.

Pressure Loss Filter Unit



Capacity



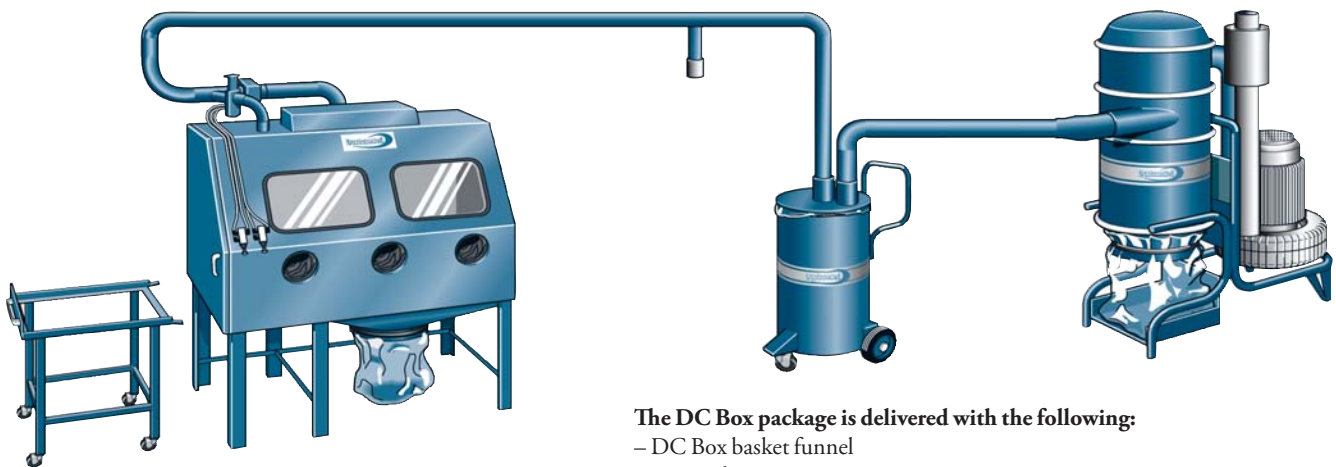
TECHNICAL DATA	50 Hz	60 Hz
H mm	1400	1400
W mm	400	400
L mm	860	860
Weight	50 kg	50 kg
Inlet/Outlet	Ø50 mm	Ø50 mm
Flow at open inlet	260 m³/h	320 m³/h
Neg. pressure	20 kPa	21 kPa
Power Motor	2.5 kW	3.0 kW
Filter area, fine filter	1.8 m²	1.8 m²
Degree of separation	>99.9%	>99.9%
Collection sack	30 l	30 l
Sound level	<75 dB (A)	<75 dB(A)

DC Box package

The DC Box has been specially designed for cleaning smaller dust extractors and hand held tools. In the DC Box, dust is extracted by a DC 11-Module extraction system. The objects are loaded through the end covers of the funnel and on the front there are three holes where the operator can put his hands into, e.g. to clean the machine with compressed air. There is also a source extraction point for vacuum cleaning. The DC Box is easy to work with and fits any machine and tool up to approximately 1 metre in size. The DC Box is a complete solution including pipes and central extraction unit.

Part No 114801

TECHNICAL DATA	DC Box	DC 11-Module 12 kW
H x W x L	2 000 x 800 x 1 600 mm	1 800 x 1000x 1 300 mm
Weight	160 kg	260 kg
Inlet/Outlet	Ø 76 mm	Ø 108 mm
Hose length	2 m	
Reverse Pulse		4 l/s, 4 bar
Flow	600 m ³ /h	800 m ³ /h
Neg. pressure max		21 kPa
Filter area		8.4 m ²
Degree of separation		> 99.9%
Noise level		65 dB(A)



The DC Box package is delivered with the following:

- DC Box basket funnel
- External conveyor
- DCF Mobile pre-separator
- DC 11 Module 12 kW P central unit
- 400 V 50 Hz motor control panel



The heart of the system

The vacuum producer is the heart of the system. Here the negative pressure is created that drives the system. In Dustcontrol extraction systems, the vacuum level is generally from 6 – 40 kPa.

Our normal source extraction and vacuum cleaning systems use turbopumps. This device has an ideally suited characteristic capacity for this type of system. Vacuum level increases as more resistance is presented, an important quality in minimizing the possibility of blockages in the tubing system. For applications involving fume and light dust, such as paper, radial blowers are used. These have larger air-flows and operate at a lower, relatively constant, vacuum level. Our turbopumps and radial blowers have very high quality silencing, see technical specifications.

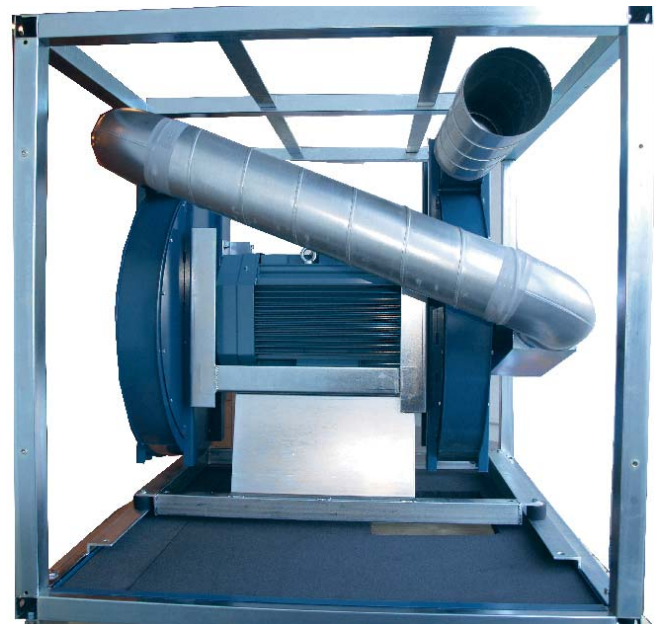
Turbopumps

Dustcontrol's turbopumps are regenerative blowers, both the direct and belt driven models. As the impeller rotates, centrifugal force moves the air from the root of the blade to the tip. Leaving the tip, air flows around the contour of the housing and is picked up at the root of the succeeding blade. The "closed" area of the housing between the outlet and inlet, forces the air to atmosphere. The many blades on the impeller create increasing stages of pressure generation and result in a very stable

pressure differential capability. This pressure generation causes heat to be generated naturally which dissipates in the air flow and through the blower housing. Silencing, particularly on the larger units is very effective. When two or more units are installed in parallel, they can be operated on demand for maximum efficiency and minimum energy consumption.

Radial Blowers

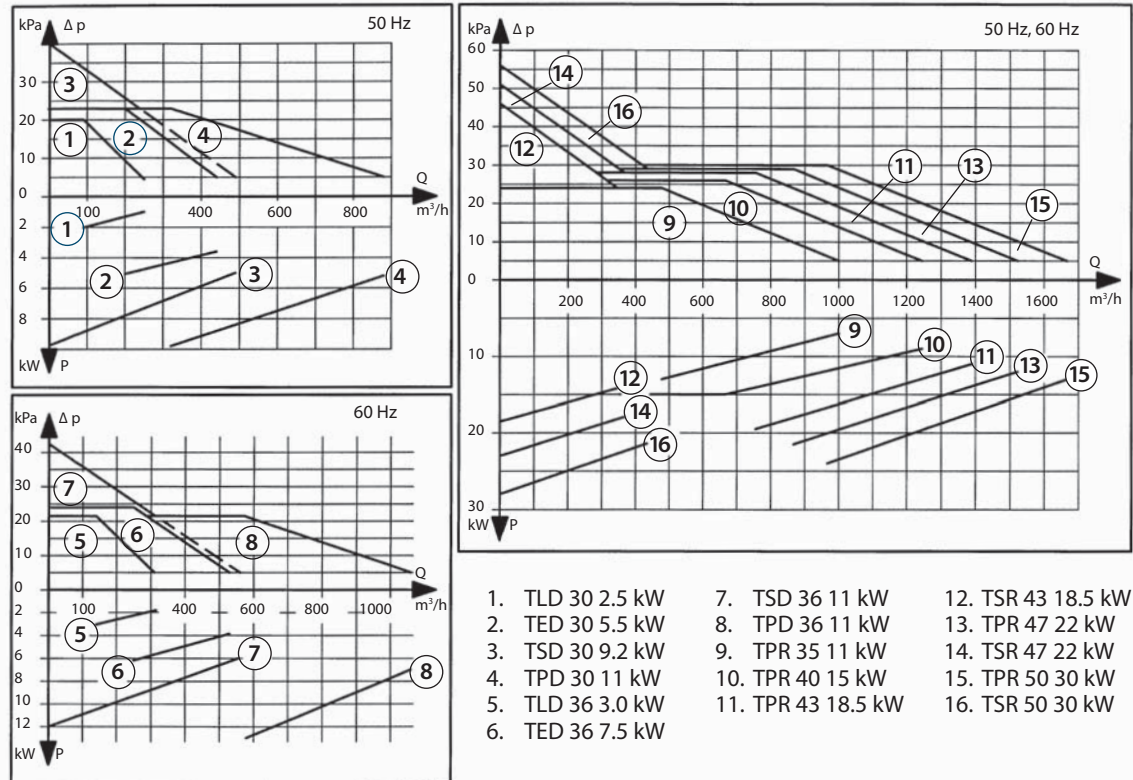
Dustcontrol fans are radial blowers, air is introduced at the center of the fan wheel and forced outward with centrifugal force toward the fan housing. These fans can be operated fully restricted in a "free-wheeling" condition without adverse effect and can therefore be operated without vacuum relief valves. The fans are designed for pressure and are overloading type units. They cannot be operated without being connected to the restriction of a tubing system. Operation above their maximum rated flow will result in overloading and the motor protection will trip out. To limit the power surge at start-up, install a shutter valve on the inlet which should be closed when the fan starts.



Vacuum Producers

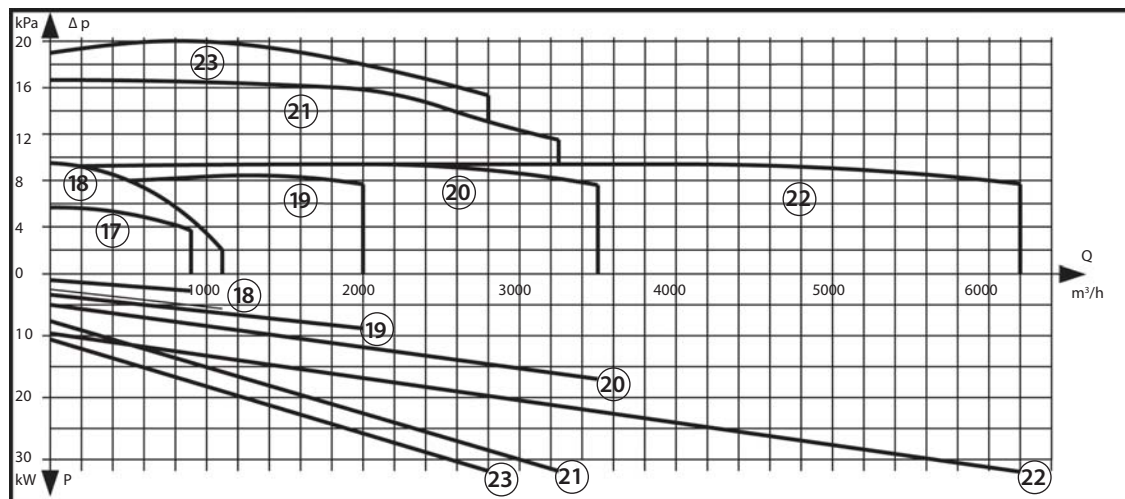
Turbopumps

Source Extraction, Cleaning, Pneumatic Transportation.



Radial Blowers

Fume extraction of fine dust from light material, ie: wood and paper.



The capacity curves for DustControl vacuum producers have been measured and are stated empirically. Outlet pressure losses from a normal outlet (silencer, back-flow valve/bend) have been accounted for in the curve. Additional equipment such as a diffuser can result in increased pressure loss and must be taken into consideration.

Stated air-flows are for standard air (101.3 kPa @ 20° C).

The stated curves are for negative application, all pressures stated are assumed to be below relative atmospheric pressure at sea level. These devices can also be used for positive pressure application and will generate a greater pressure differential.

TLD/TED 30/36

Turbopump TLD 30/36 and TED 30/36 are direct driven single stage units. To ensure constant pressure and that cooling air is available to the pump when all outlets are closed, the tubing system should be equipped with a vacuum relief valve.

TPD 30/36

Turbopump TPD 30/36 9.2/11 kW is a direct driven twin impeller parallel connected unit. To ensure constant pressure and that cooling

air is available to the pump when all outlets are closed, the tubing system should be equipped with a vacuum relief valve.

TSD 30/36

Turbopumps TSD 30/36 are direct driven twin impeller series connected units. This is used in demanding applications where high vacuum levels are required. To ensure that cooling air is available to the pump when all outlets are closed, the turbo-pump can be equipped with a cooling air inlet.

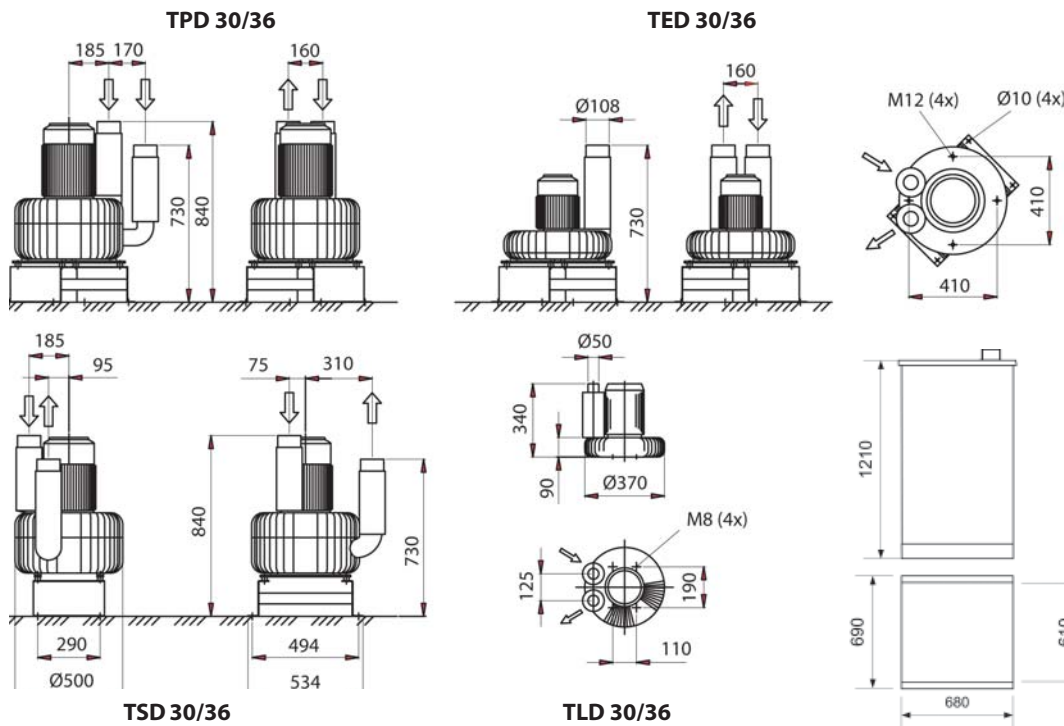
PART NO	Hz	TLD 30 2.5 kW	TLD 36 4 HP	TED 30 5.5 kW	TED 36 7.5 kW	TED 36 10 HP	TPD 30 9.2 kW	TPD 30 12 kW	TSD 30 9,2 kW	TSD 30 12 kW	TSD 36 15 HP S
230/400 V	50	4322									
230 V	50			4326/14153600*			4910		4907		
400 V	50			4126	14154600*		4911	14166600*	4908	14176600*	
230/460 V	60		419006			1415F900*					
460 V US/CAN	60					419306				479700 / 1417G900*	4881000 / 1416G900*
575 V CAN	60		419004			419101				4615	

* With silencer and vacuum relief valve.

Choose between outlet pipe or diffused silenced outlet under lid.

Outlet pipe – put 10 after the part no.

Diffused silenced outlet – put 30 after the part no (not available for 12 kW/15 HP).



Silenced TED/TPD is delivered with built in vacuum relief valve and with a silenced cover. Silenced TSD is delivered with built in cooling air Inlet and silenced cover.

LUBRICATION INTERVAL	TLD 30 2.5 kW	TLD 36 4 HP	TED 30 5.5 kW	TED 36 7.5 kW	TPD 30 9.2/12 kW	TSD 30 9,2/12 kW	TSD 36 15 HP
	10000 h	10000 h	10000 h	10000 h	1500 h	1500 h	1500 h

These direct driven units are extremely reliable and have low service requirements (lubrication interval is 10000 hours).

Grease for Dustcontrol Turbopumps, Part No 9928

TECHNICAL DATA, description TLD 30 TLD 36 TED 30 TED 36 TPD 30 TSD 30 TSD 36

Power Supply	Hz	50	60	50	60	50	50	60	60
Pump	RPM	3000	3600	3000	3600	3000	3000	3600	3600
Weight	kg	30	30	65	65	90	90	110	110
Max dP	kPa	20	22	23	24	21	40	43	20
Nominal Pressure	kPa	18	20	18	20	18	30	32	17
Max Q	m ³ /h	260	300	450	600	900	450	560	1050
Sound Level of									
Unit 1m	dB(A)	75	75	75/62*	75/65*	75/65*	75/66*	75/66*	75
* With silencer									
Inlet/Outlet	Ømm	50/50	50/50	108/108	108/108	108/108	108/108	108/108	108/108

Accessories

Part No 3037 Console 500 mm (2 req'd)

For wall installation of TLD 30/36.

Part No 4477 Pump Chassis

For separate mounting of TED 30/36, TPD 30/36 and TSD 30/36.

Part No 4942 Silencer 100 300/200

Used for silencing of 76 mm vacuum valve and also exhaust silencing on 2.5–11 kW / 4–18,5 HP turbopump. For accompanying tubing details, see installation example.

Part No 3195 Silencer 80 300/180

Used for silencing of 50 mm vacuum valve.

Part No 8253 Vacuum Relief Valve 50 mm

Used with TLD 30/36. The vacuum relief valve is installed on the tubing system (inlet side) on a branch tube. This delivers cooling air to the turbopump and can be adjusted for the desired vacuum level in the system.

Part No 8001 Vacuum Relief Valve 76 mm

Used with TED 30/36 and TPD 30/36. The vacuum relief valve is installed on the tubing system (inlet side) on a branch tube. This delivers cooling air to the turbopump and can be adjusted for the desired vacuum level in the system.

Part No 40595 Cooling air inlet with silencer for TSD 30/36

Cooling air is introduced to the turbopump between stages so the unit can be driven with all outlets closed without the risk of overheating

Part No 42297 Back Flow Valve Ø108

Installed on the inlet side of the turbopump when two or more units are parallel installed.

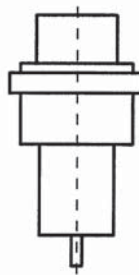
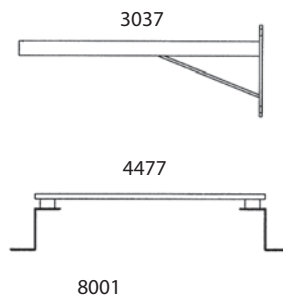
Silencing Covers. The silencing covers will reduce the sound level by 4 dB.

Part No 40261 Silencing Cover for TLD 30

Part No 40697 Silencing Cover for TED 30 5.5 kW

Part No 40698 Silencing Cover for TED 30 9.2 kW

Part No 4659 Intermediate piece Ø108



Capacity and Power Consumption

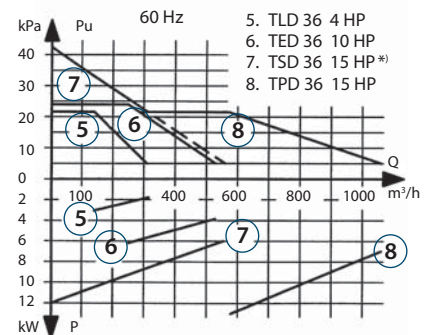
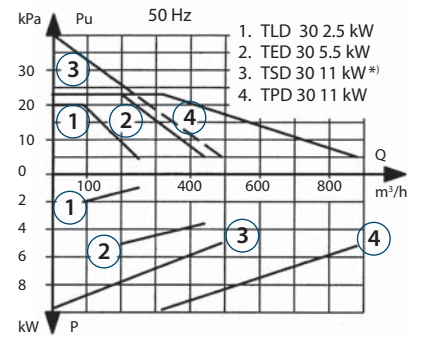
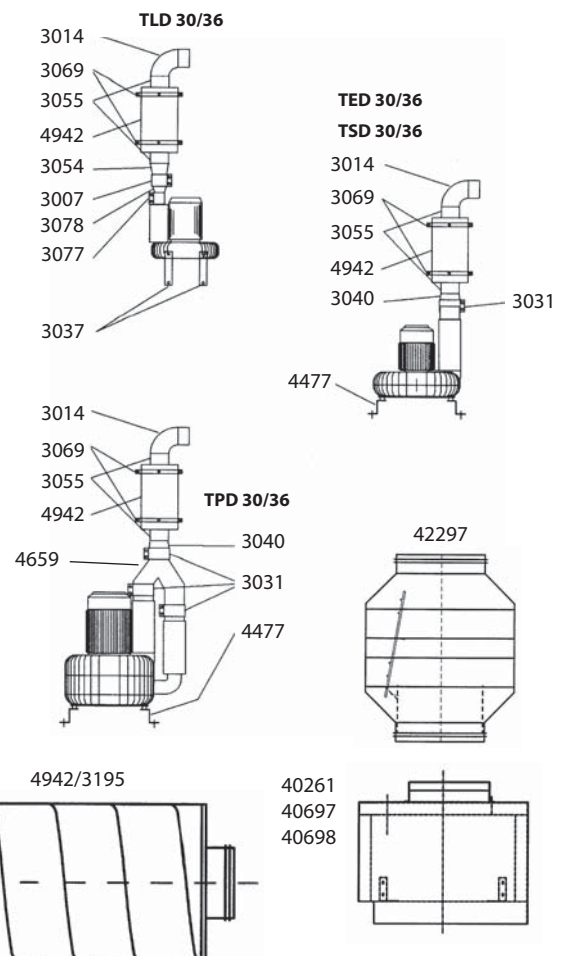


Figure shows available capacity in an extraction system.

*) Turbopump with cooling air inlet.

Installation Example, Silencers



TPR

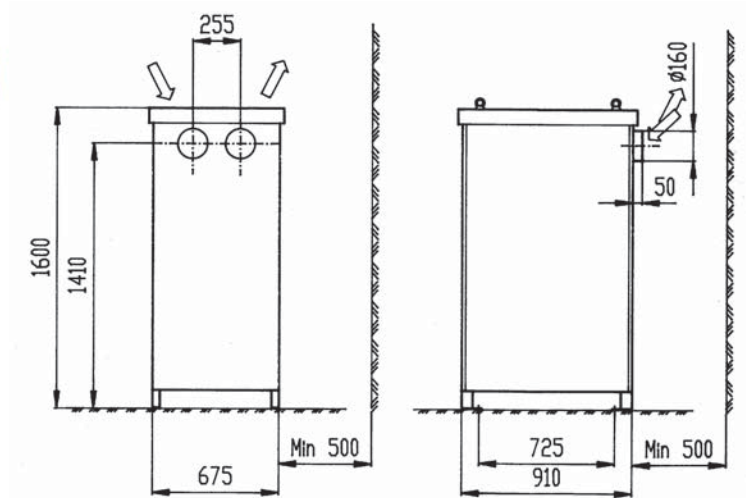
Turbopumps with TPR designation are parallel connected twin impeller belt driven units. Cooling air is introduced into the unit through an adjustable vacuum relief valve. The vacuum pressure in the system can be held constant when different outlets are opened. The turbopumps are equipped with thermal overload protection on the outboard bearing which will trip out when bearing temperature becomes excessive. A back flow valve is built into the unit on the inlet side.

TSR

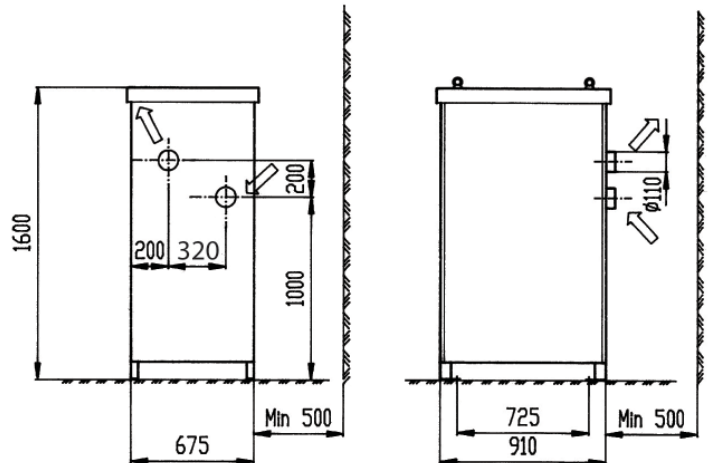
Turbopumps with TSR designation are series connected two stage belt driven units. Cooling air is introduced into the pump through a slot between the two stages. In this way the second stage cools the first stage indirectly, allowing the pump to run at extremely high vacuum and low airflow without overheating. The turbopumps are equipped with thermal overload protection on the outboard bearing which will trip out when bearing temperature becomes excessive. A back flow valve must be optionally installed on the inlet side of the unit when several units are to be installed in parallel.

Dimensions, Installation Example

TPR



TSR



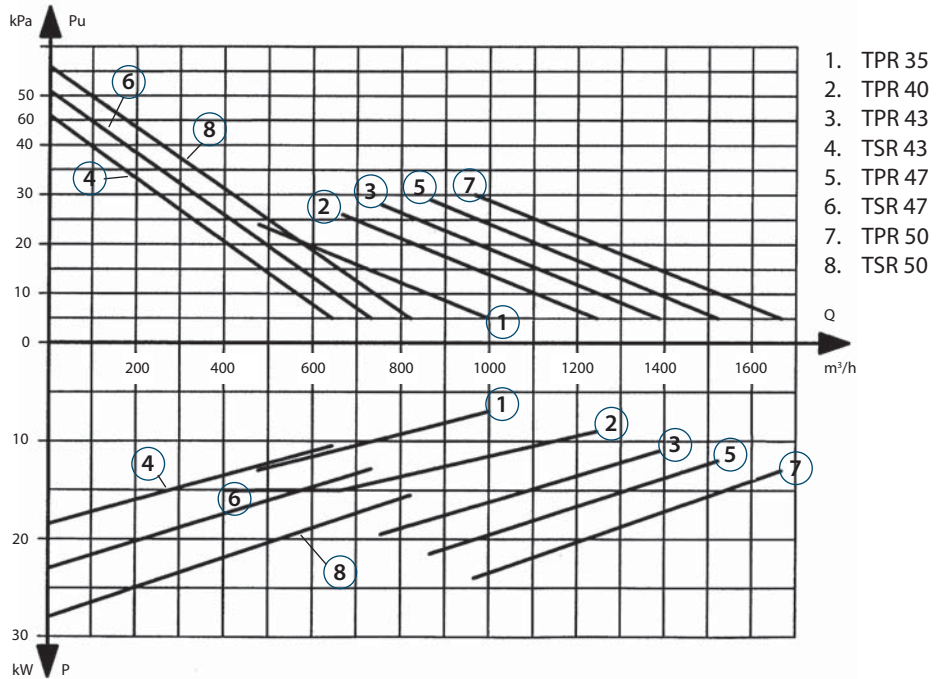
PART NO/MOTOR	Hz	TPR 35	TPR 40	TPR 43	TSR 43	TPR 47	TSR47	TPR 50
230 V	50	106802/15 kW	107202/18.5 kW	107252/18.5 kW	107702/22 kW	107752/22 kW	109202/30 kW	109252/30 kW
400 V	50	106600/11 kW	106800/15 kW	107200/18.5 kW	107250/18.5 kW	107700/22 kW	107750/22 kW	109200/30 kW
460 V USA/CAN	60	106805/20 HP	107207/25 HP	107257/25 HP	107707/30 HP	107757/30 HP	109207/40 HP	109257/40 HP
575 V CAN	60	106806/20 HP	107206/25 HP	107256/25 HP	107706/30 HP	107756/30 HP	109206/40 HP	109256/40 HP

TECHNICAL DATA, description TPR 35 TPR 40 TPR 43 TSR 43 TPR 47 TSR 47 TPR 50 TSR 50

Pump RPM	rpm	3500	4000	4300	4300	4700	4700	5000	5000
Weight	kg	400	400	430	430	450	450	530	530
Max dP	kPa	22	26	28	46	29	50	30	54
Nominal Pressure	kPa	20	20	20	35	21	37	23	40
Max Q	m ³ /h	1000	1200	1400	650	1500	700	1600	800
Sound Level of Unit 1 m	dB(A)	66	66	66	66	66	66	66	66
Inlet/Outlet	Ømm	160/160	160/160	160/160	108/108	160/160	108/108	160/160	108/108

Capacity and Power Consumption

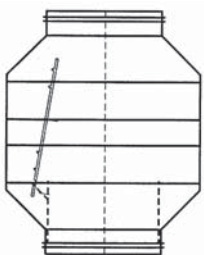
The diagram shows available capacity for an extraction system.



Lubrication Interval

Δp	TPR 35	TPR 40	TPR 43	TSR 43	TPR 47	TSR 47	TPR 50	TSR 50
22 kPa	1500 h	1500 h	1500 h	-	1500 h	-	1500 h	-
25 kPa	750 h	750 h	1500 h	-	1500 h	-	1500 h	-
28 kPa	-	-	1000 h	-	1000 h	-	1000 h	-
30 kPa	-	-	-	1500 h	-	1500 h	750 h	1500 h
40 kPa	-	-	-	1000 h	-	1000 h	-	1000 h

Grease for Dustcontrol Turbopumps, Part No. 9928

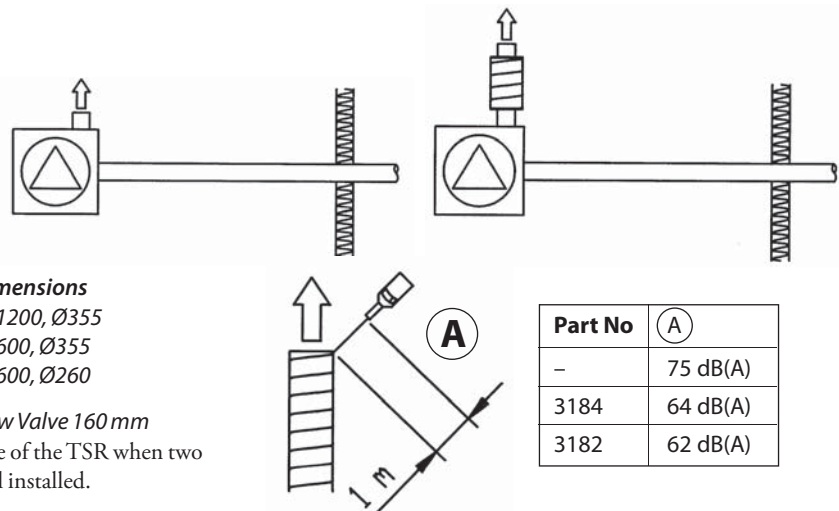


Accessories

Silencer

Part No	Conn.	Dimensions
3182	Ø160	L=1200, Ø355
3183	Ø160	L=600, Ø355
3184	Ø160	L=600, Ø260

Part No. 8051 Back Flow Valve 160 mm
Installed on the inlet side of the TSR when two or more units are parallel installed.



Part No	(A)
-	75 dB(A)
3184	64 dB(A)
3182	62 dB(A)

RAF 500

2.5 kW 220–240/380–420V, 50 Hz Part No

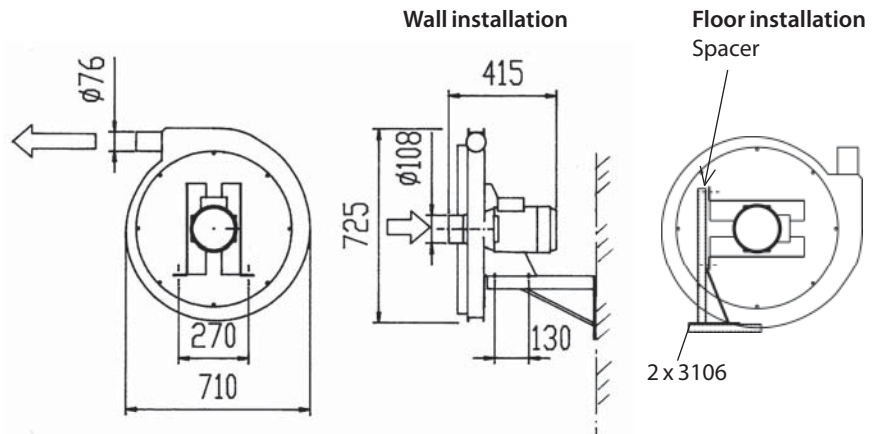
Without Silencing Enclosure	111900
With Silencing Enclosure	111910

4 HP 460V, 60 Hz Can/US Part No

Without Silencing Enclosure	111904
With Silencing Enclosure	111916

The RAF 500 is ideal for small fume extraction systems, for example with Flexpipes. Spiral tubing is generally used. The blower is a direct driven unit with minimal service requirements. (Lubrication interval 10000 hours).

Dimensions RAF 500 without Silencing Enclosure



RAF 500S

5.5 kW 220–240/380–420V, 50 Hz Part No

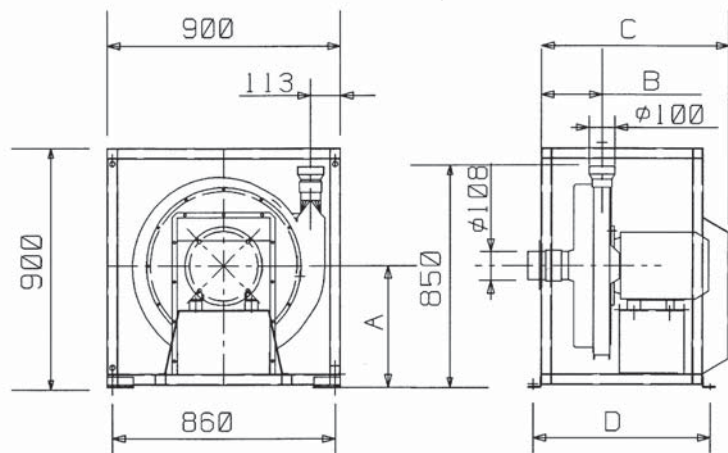
Without Silencing Enclosure	111800
With Silencing Enclosure	111810

10 HP 460V, 60 Hz Can/USA Part No

Without Silencing Enclosure	111804
With Silencing Enclosure	111816

The RAF 500S is for application in extraction systems for lighter dust, ie: wood dust. It is a twin wheel, series connected unit. The unit is direct drive and has minimal service requirements. (Lubrication interval 10000 hours)

Dimensions RAF 500 with Silencing Enclosure and RAF 500 S



Accessories RAF 500 and RAF 500S

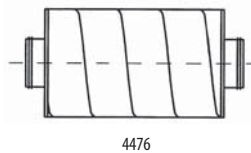
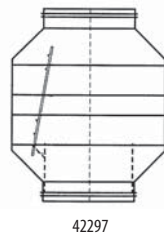
Part No **4476** Silencer 100, 600/200 mm
Used for silencing exhaust and inlet.

Part No **42297** Back Flow Valve 108 mm
Installed on the inlet side of the fan when two or more units are parallel installed.

Part No **808404** Shutter valve auto 108 mm

Part No **8088** Solenoid valve 24 VAC

A closed shutter valve on the inlet at start-up decreases the power surge.



	A	B	C	D
RAF 500	450	157	550	510
RAF 500S	460	325	725	685

Capacity and Power Consumption

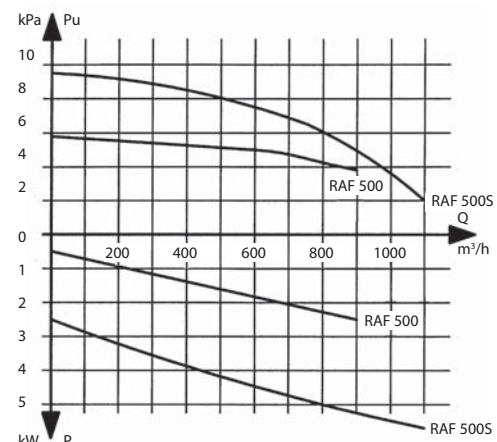


Figure shows available capacity in an extraction system.

TECHNICAL DATA

		RAF 500	RAF 500S
Motor	kW	2.5 kW/4 HP	5.5 kW/10 HP
Pump RPM	rpm	3000	3000
Weight	kg	39	180
Max dp	kPa	5.6	9.5
Max Q	m ³ /h	900	1100
Sound Level ^{*)}	dB(A)		
		79	79
		66	66
Inlet/Outlet	mm	108/76	108/100

^{*)} with exhaust silencer, 1 m

RAF 1600/2500

PART NO.Hz		RAF 1600		RAF 2500	
400 V	50	112000	7,5 kW	112100	15 kW
230 V	50	112002	7,5 kW	112102	15 kW
460 V UUS/CAN	60	112007	10 HP	112107	20 HP

RAF 1600/2500 are single stage direct driven radial blowers for less demanding pressure applications such as fume extraction. The blowers are equipped with vibration isolators and silenced enclosure. They should always be equipped with an exhaust silencer (inlet also if required). These units have minimal service requirements (lubrication interval 10000 hours).

Accessories

Part No 8051 Back Flow Valve 160 mm

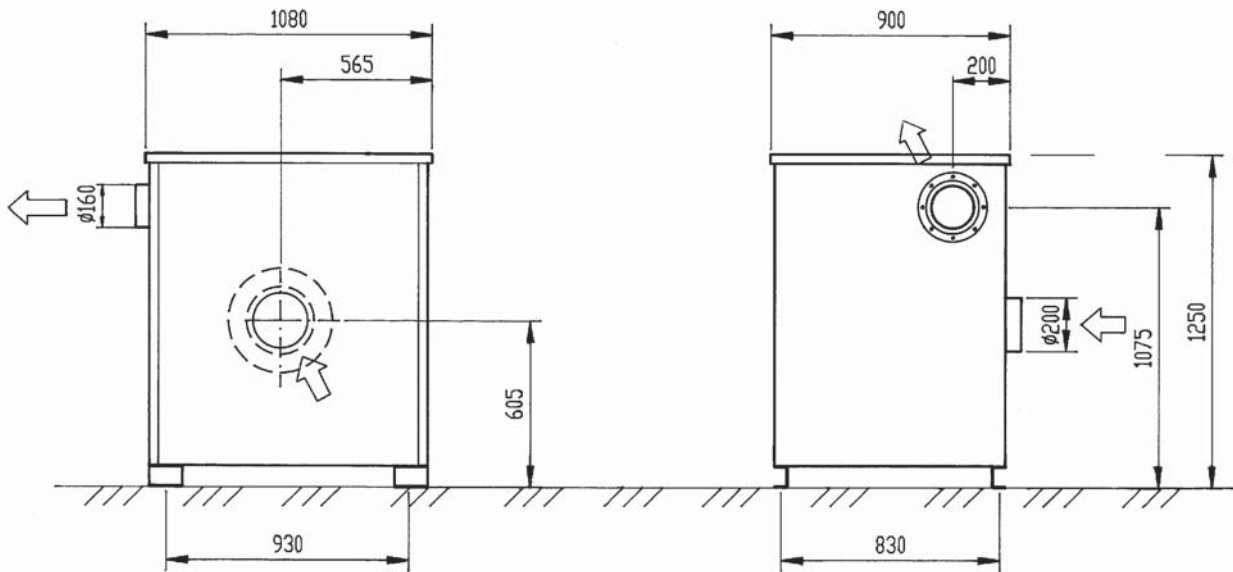
Installed on the inlet side of the fan when two or more units are parallel installed.

Part No 807500 Shutter valve auto 200 mm

Part No 8088 Solenoid valve 24 VAC

A closed shutter valve on the inlet at start-up decreases the power surge.

Dimensions, Installation Example



TECHNICAL DATA		RAF 1600		RAF2500	
		50Hz	60Hz	50Hz	60Hz
Pump RPM	rpm	3000	3600	3000	3600
Weight ca	kg	290		330	
Max dp	kPa	7.7		9.3	
Max Q	m ³ /h	2000		3500	
Sound Level*	dB(A)	68		70	
Inlet/Outlet	mm	200/160		200/160	

* with exhaust silencer, 1 m.

Capacity and Power Consumption

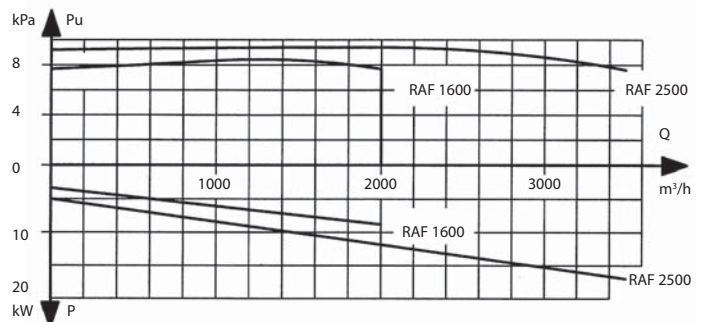


Figure shows available capacity in an extraction system.

RAF 2501

V	Hz	Motor	Part No
400	50	30 kW	112200
230	50	30 kW	112202
460 USA/CAN	60	40 HP	112204
575	60	40 HP	112206

The RAF 2501 is applied in extraction systems requiring large air-flows for lighter types of dust and cleaning. Pressure generation is achieved through two series connected stages. The unit is equipped with vibration isolation and a silenced enclosure. The unit should always be equipped with an exhaust silencer (inlet also if required). The unit is direct driven and has minimal service requirements (lubrication interval 10000 hours).

Accessories

Part No 8051 Back Flow Valve 160 mm

Installed on the inlet side of the fan when two or more units are parallel installed.

Part No 807500 Shutter valve auto 200 mm

Part No 8088 Solenoid valve 24 VAC

A closed shutter valve on the inlet at start-up decreases the power surge.

RAF 2502

V	Hz	Motor	Part No.
400	50	30 kW	112300
230	50	30 kW	112302
460 USA/CAN	60	40 HP	112304
575	60	40 HP	112306

The RAF 2502 is applied in extraction systems requiring large air-flows such as systems for fume extraction. RAF 2502 work with two parallel impellers. The unit is equipped with vibration isolation and a silenced enclosure. The unit should always be equipped with an exhaust silencer (inlet also if required).

The unit is direct driven and has minimal service requirements (lubrication interval 10000 hours).

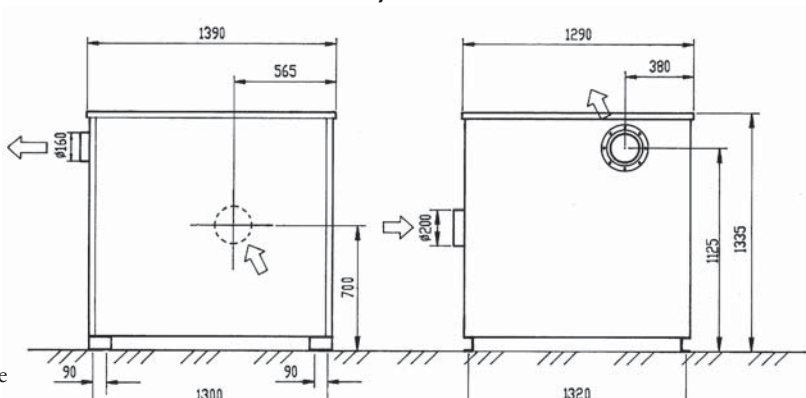
RAF 2503

V	Hz	kW	Part No.
400	50	30	112400

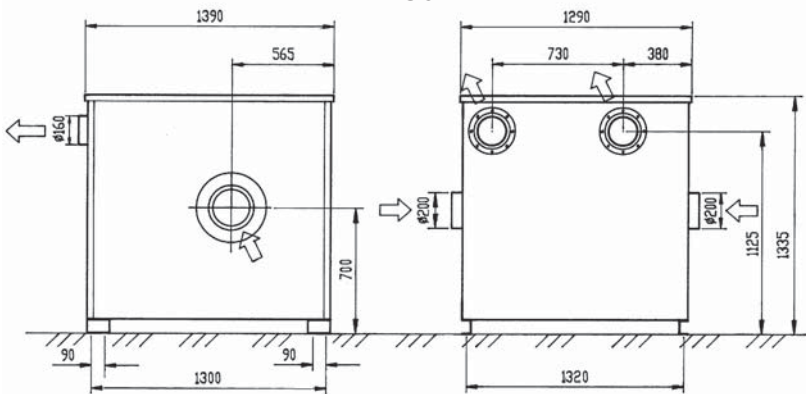
Pressure generation is achieved through two series connected stages. The unit is equipped with vibration isolation and a silenced enclosure. The unit should always be equipped with an exhaust silencer (inlet also if required). The unit is direct driven and has minimal service requirements (lubrication interval 10000 hours).

RAF 2503 develops a maximum negative pressure of 20 kPa. Note though that the maximum airflow is 2800 m³/h. Above this, the power consumption would be too large for the 30 kW motor, so the design of the system must throttle to this level for all cases.

RAF 2501, RAF 2503



RAF 2502



Accessories – Please see RAF 2501.

TECHNICAL DATA		RAF 2501		RAF 2502		RAF 2503
		50Hz	60Hz	50Hz	60Hz	50 Hz
Pump RPM	rpm	3000	3600	3000	3600	3000
Weight ca	kg	440		430		450
Max dp	kPa	17		9.4		20
Max Q	m ³ /h	3300		6200		2800
Sound Level*	dB(A)	74		74		74
Inlet/Outlet	mm	200/160		2x200/2x160		200/160

* with exhaust silencer, 1 m.



Capacity and Power Consumption

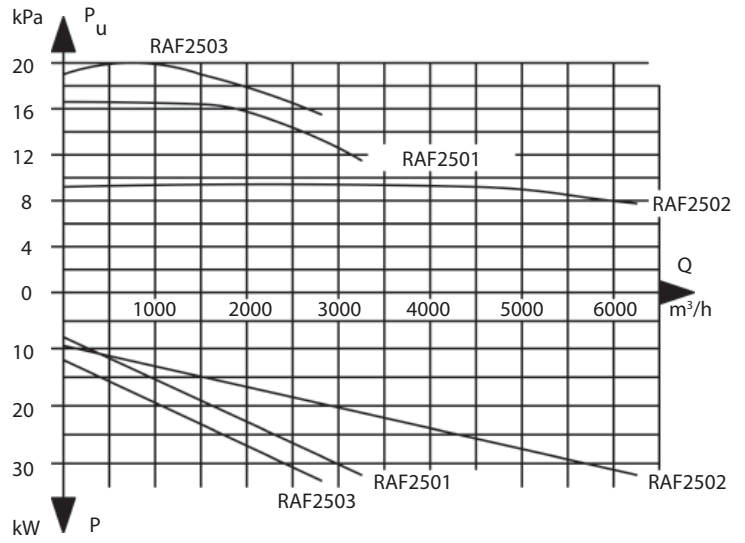
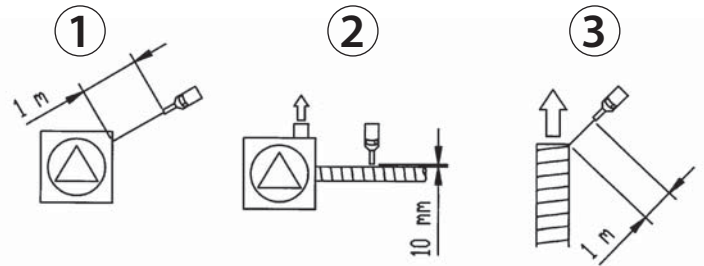


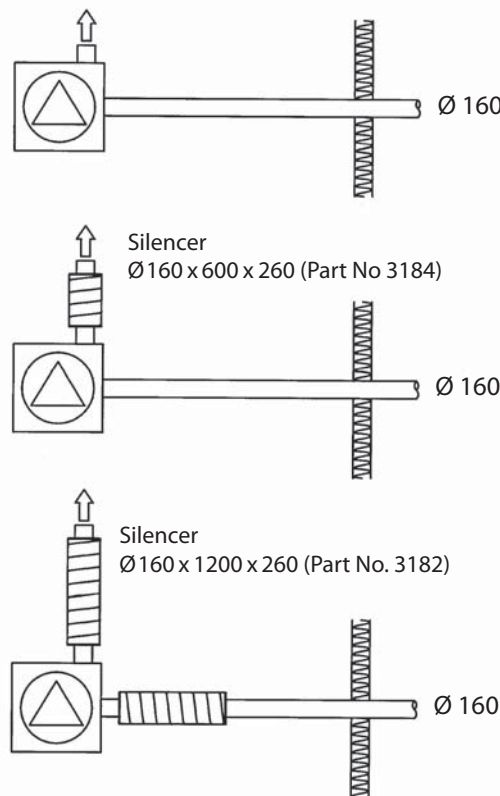
Figure shows available capacity in an extraction system.



Fan Silencers

In order to decrease the noise level of our fans, RAF 1600 – 2503, an in-line silencer must be installed on the exhaust duct. Several examples are illustrated of how noise level measurements can be affected. It is not unusual to obtain measurements of up to 110–120 dB(A) in completely non-silenced installations.

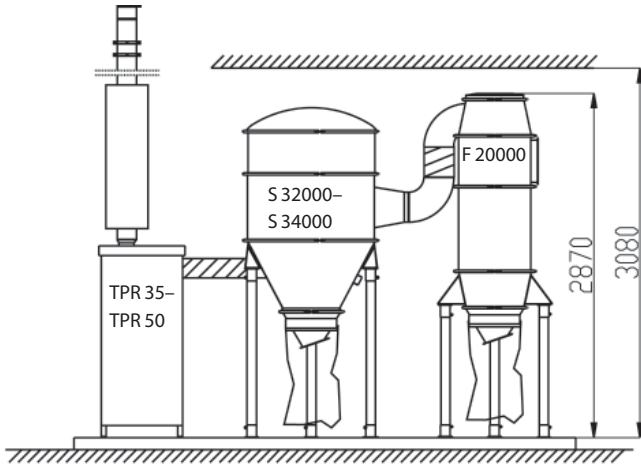
Part No	Conn.	Dimensions
3182	Ø160	L=1200, Ø355 mm
3183	Ø160	L=600, Ø355 mm
3184	Ø160	L=600, Ø260 mm



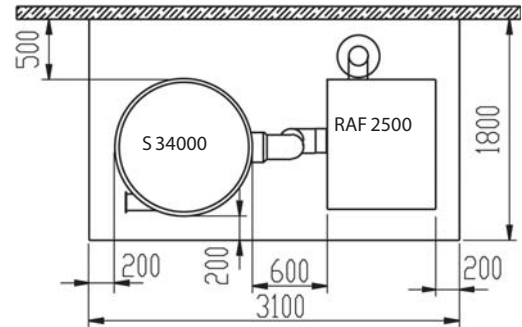
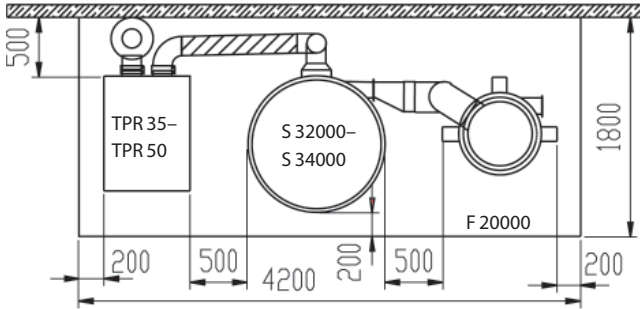
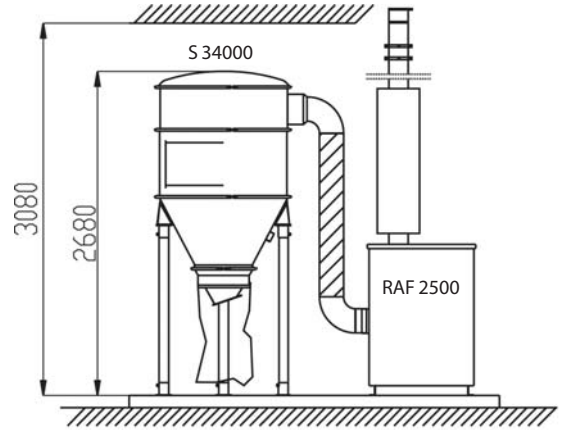
	①	②	③
	96	100	102
	75	78	81
	68	72	71

Installation Examples

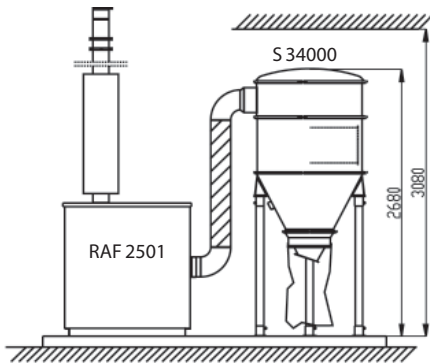
TPR 35-TPR 50, S 32000-S 34000, F 20000



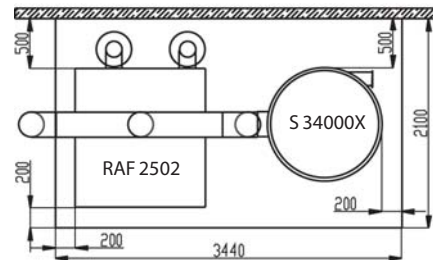
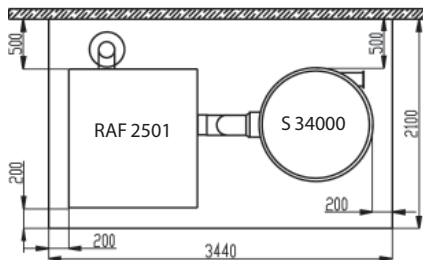
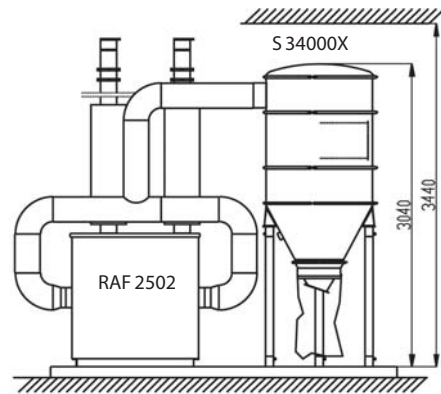
S 34000, RAF 2500



RAF 2501, S 34000



RAF 2502, S 34000X



Always Use a Filter Unit

An extraction system should always be equipped with a filter unit. The filter unit separates coarse material in the cyclone body of the unit and fine dust in an internal arrangement of conical pleated cartridge filters. Pleated filters have very high filter areas in relation to their physical size. The filter units therefore have high capacity while maintaining compact overall dimensions.

Filters are cleaned with reverse pulse which results in very effective cleaning, long filter life and low maintenance.

Normally the filter units are equipped with a plastic sack for collection of the extracted material but other types of discharge arrangements can also be installed.

General

In the filter unit, dust is separated from the air in several steps.

- the cyclone will separate particles down to a size of 1/100 mm.

- the filter will separate particles which go through the cyclone.

The dust laden air is introduced into the cyclone at a high velocity.

Through centrifugal force the dust particles, with higher relative mass than the air molecules, are forced outward toward the wall of the cyclone and fall toward the bottom. The air flows toward the centre of the cyclone and through the filter.

Filter Loading

Permissible air-flow determines the air velocity through the filter material, known as filter loading. Consider also inlet/outlet velocities. Permissible filter loading varies with dust type.

Dust Type Permissible filter loading (m³/h)m²

Dust Type	Permissible filter loading (m ³ /h)m ²
Stone	120
Concrete	120
Wood	160
Cement	120
Plastic	120
Graphite	60
Carbon black	60
Welding fume	60
Fibreglass	60

Example:

For the extraction of welding fume, the maximum permissible flow in the S 34000 will be:

$$60(\text{m}^3/\text{h})/\text{m}^2 \times 34 \text{ m}^2 \text{ filter area} = 2040 \text{ m}^3/\text{h}$$

The velocity of the air through the inlet and outlet should not exceed 30 m/s. When one filter unit does not have sufficient capacity, several units can be connected in parallel.



Choose right Filter Unit

Dust Type	Air Flow	Select Filter Unit
Stone, concrete, cement, wood, plastic, metal	$\leq 1000 \text{ m}^3/\text{h}^{*)}$	S 11000
	1000–1500 m^3/h	S 21000
	1000–2000 $\text{m}^3/\text{h}^{*)}$	S 32000/2 x S 11000
	2000–4000 $\text{m}^3/\text{h}^{*)}$	S 34000
	4000–5000 $\text{m}^3/\text{h}^{*)}$	S 34000X
Graphite, carbon black, welding fume, fiberglass	$\leq 700 \text{ m}^3/\text{h}$	S 11000X
	700–1400 m^3/h	2 x S 11000X
	700–2000 m^3/h	S 34000
	2000–2900 m^3/h	S 34000x

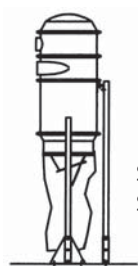
**) In applications with a large percentage of finer particulate, the above values should be reduced 20 %.*

Central Units

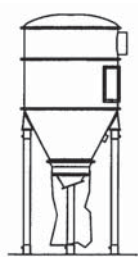
For smaller systems, the filter unit and vacuum producer can be delivered unitized on a common chassis.

Air Flow ^{*)}	Pressure Demand	Select Filter Unit
$\leq 200 \text{ m}^3/\text{h}$	normal	DC 3800 Stationary
200–400 m^3/h	normal	DC 11000 5.5/7,5 kW
200–400 m^3/h	large	DC 11000 9.2/11 kW S
400–800 m^3/h	normal	DC 11000 9.2/11 kW P
400–800 m^3/h	large	DC 11000 2x5.5/2x7.5 kW
		DC 11000 2x9.2 kW S

**) always consider dust type and filter loading as above*



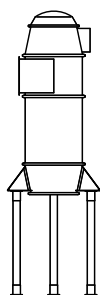
S 11000
S 11000XS
11000E



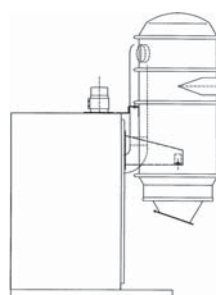
S 32000
S 34000
S 34000X



DC 3800
Stationary



S 21000



11Module

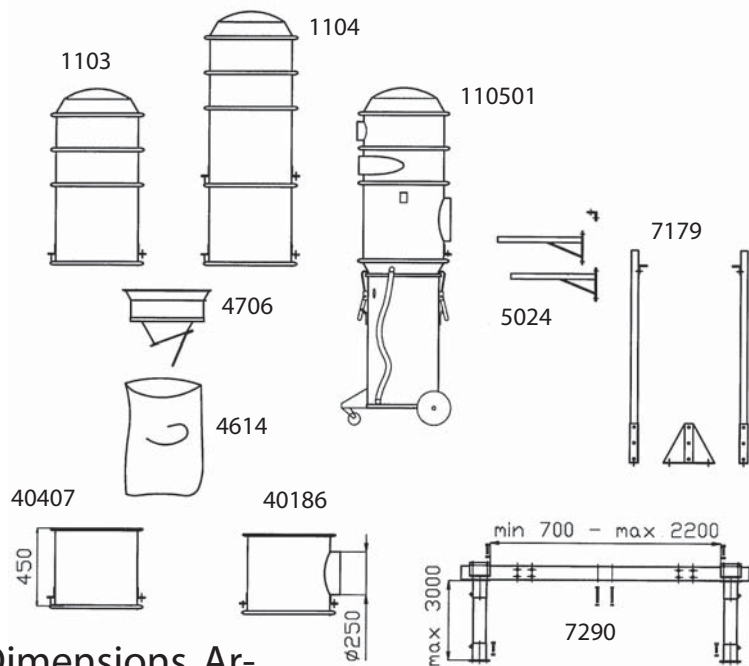


S 11000

Part No	Description
1103	S 11000
1104	S 11000X
110501	S 11000E
5024	Wall bracket compl.
7179	Stand compl.
4706	Discharge Cone
4614	Collection sack 50 pack
42429	Collection sack 25 pack, antistatic

The S 11000 filter unit is of modular construction and is therefore flexible in application. The inlet module can for example be both rotated and reversed. Additional module rings can be installed to increase the storage capacity of the cyclone. The S 11000 is either floor or wall mounted. The S 11000 and S 11000X must always be equipped with a discharge cone or other discharge arrangement.

The X model is equipped with larger filter area and an extra module ring. The E model is equipped for use with wood dust and has an explosion relief port as well as material collection in a steel container.



Dimensions, Arrangements

Accessories

Part No 8188 Timer

Can be used to activate filter cleaning.

Part No 40186 Pressure Relief Module

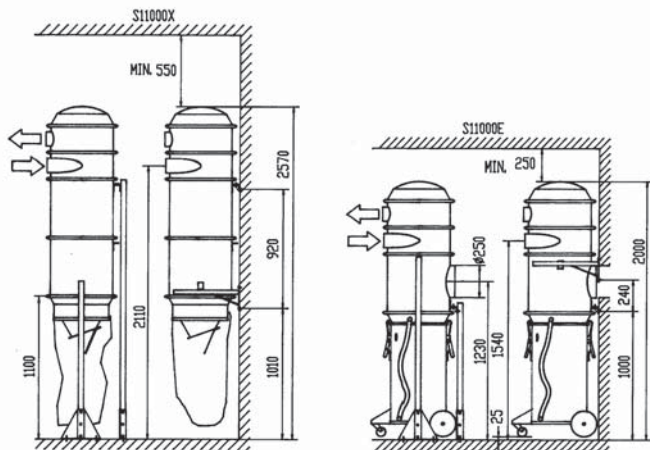
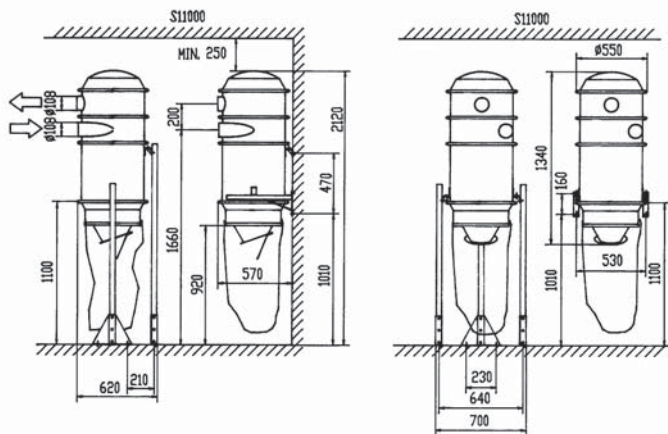
Used in applications with explosible materials. The relief module is equipped with a pressure relief port to relieve the pressure wave in a deflagration. The relief port must relieve to atmosphere in accordance with the prevailing local standards. The separator must discharge to a closed container.

Part No 40407 Module Ring, complete

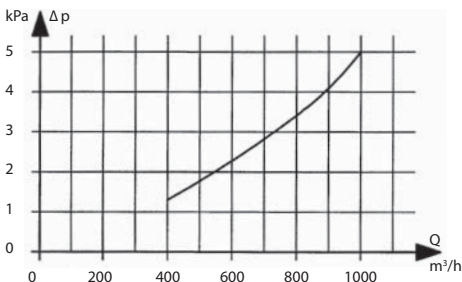
Increases the height of the cyclone and volume.

Part No 7290 Widening Chassis

Used in applications where the separator is to discharge into a larger container such as a tipping container.



Pressure Loss



S 21000, S 32000, S 34000, S 34000X

Part No Description

1191	S 21000
1136	S 32000
1059	S 34000
1060	S 34000X
4706	Discharge Cone
4714	Collection Sack, 50 pack
42429	Collection Sack, 25 pack Antistatic

The S 21000 and S 34000 are constructed of modules and is therefore very flexible. The inlet modules can for example be both rotated and reversed. Additional module rings can be installed to give increased storage capacity of collected material. The X model is equipped with larger filter area and an extra module ring.

S 21000, S 32000, S 34000 and S 34000X are installed on legs. As standard, extracted material is collected in a plastic bag, alternative discharge options can be selected.

Accessories

Part No 40187	Pressure Relief Module S 21000
Part No 40188	Pressure Relief Module S 32/34000

Used in applications with explosible materials. The relief module is equipped with a pressure relief port to relieve the pressure wave in a deflagration. The relief port must relieve to atmosphere in accordance with the prevailing local standards. This module is mounted between the inlet and outlet modules. The filter unit must have material discharge to a closed container.

Part No 4612	Module Ring, complete S 32/34000
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Increases the height of the cyclone by 0,35 m and volume by ca 0.3 m³.

Part No 40007	Inlet Wear Plate S 32/34000
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Inlet wear plate for minimising wall wear on the cyclone when collecting abrasive material.

Part No 819001	Sequence Control S 32/34000
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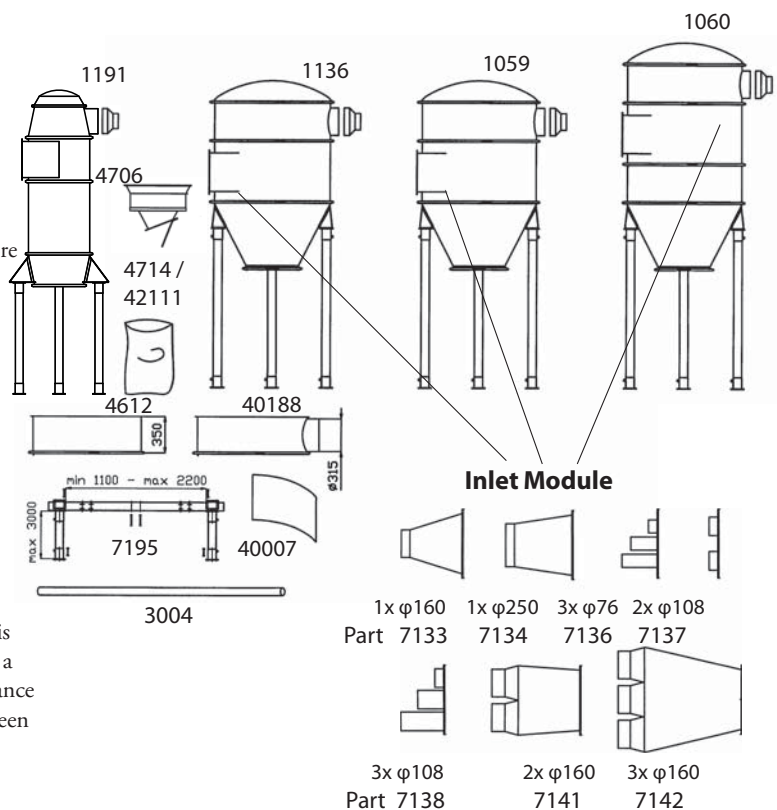
Can be used to activate filter cleaning.

Part No 7195	Widening Chassis
--------------	------------------

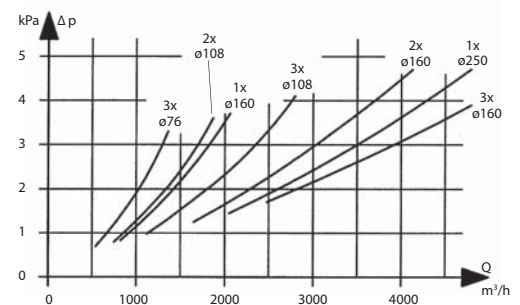
Used when collected material is to be deposited in a container up to 1,1 m³. Increases width between the legs from 860 mm to 1460 mm. "With legs > 3000 mm a widening chassis should be ordered."

Part No 3004	Steel tube 76 mm Galvanized
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Delivered in 3 m lengths. Used for longer legs when required (standard leg L = 1400 mm).

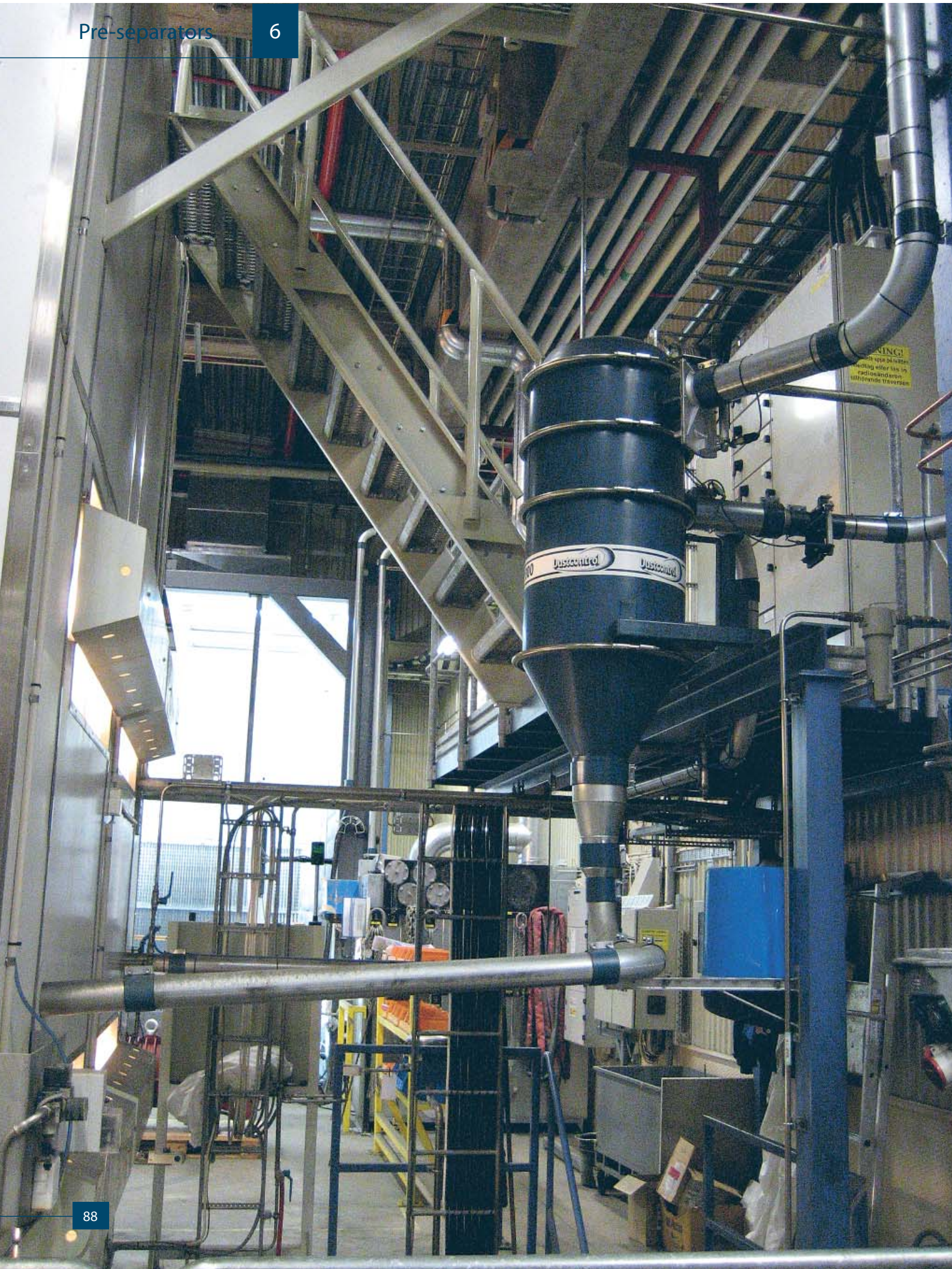


Pressure Loss



TECHNICAL DATA	S11000/S11000E	S 11000X	S 21000	S 32000	S 34000	S 34000X
Inlet mm	Ø 108	Ø 108	optional	optional	optional	optional
Outlet mm	Ø 108	Ø 108	Ø 250	Ø 250	Ø 250	Ø 250
Max Q	1000 m ³ /h ^(*)	1000 m ³ /h ^(*)	1500 m ³ /h ^(*)	2000 m ³ /h ^(*)	4000 m ³ /h ^(*)	5000 m ³ /h ^(*) Filters:
Pleated Polyester Cartridge						
Part No. and pcs	4292 x 1	4284 x 1	4284 x 1	4292 x 2	4292 x 4	4284 x 4 Total Filter
Area	8.4 m ²	12.0 m ²	12.0 m ²	16.8 m ²	34 m ²	48 m ²
Degree of separation DIN 24184/3	> 99.9 %	> 99.9 %	> 99.9 %	> 99.9 %	> 99.9 %	> 99.9 %
Application Class according to Bia	C	C	C	C	C	C
Max temp filter	130 °C	130 °C	130 °C	130 °C	130 °C	130 °C
Filter cleaning with Reverse Pulse						
Compressed air	4 l/s, 4 bar	4 l/s, 4 bar	4 l/s, 4 bar	4 l/s, 4 bar	4 l/s, 4 bar	4 l/s, 4 bar
Connection, hose	6/8 mm	6/8 mm	6/8 mm	6/8 mm	6/8 mm	6/8 mm
El connection	24V AC,19VA	24V AC,19VA	24V AC,19VA	24V AC,19VA	24V AC,19VA	24V AC, 19VA

^(*) Note: Always consider filter loading.



Large quantities, use a Pre-Separator

When large quantities of material are to be separated, it is advisable to use a pre-separator. The pre-separator can be placed at the workplace or in conjunction with the central unit.

Pre-separators should be used:

- for material recovery
- for material transportation
- to reduce the loading on the ducting system
- to relieve loading on the central filter
- to reduce the risk for filter clogging
- when fluids are to be separated

When a pre-separator is to be used the following should be considered:

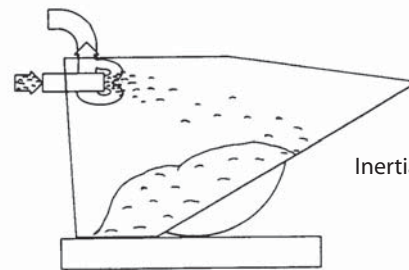
1. Type of dust to be handled.
2. How the unit should be placed and how emptying will be performed.
3. Expected airflow.

1. Cyclone Principle meaning that the inlet is mounted tangentially on the body and the air-flow is thus forced against the inside of the cyclone. This principle is very effective in separating particles down to 1/100 mm.

2. Inertial Principle meaning that the air stream flows into the container and abruptly changes course. The outlet sits behind the inlet and the particles are thus thrown into the container.



Cyclonic principle



Inertial principle



Pre-Separators

Pre-separators can be used in all applications where the extracted material is coarse or voluminous. These can be placed in the actual workplace for separate handling or recovery of the extracted material, or centrally.

Pre-separators separate material from the air flow using the action of a cyclone or with inertial separation. Inertial separators are generally configured as containers with the inlet and outlet in the same wall

of the container. When the air flow changes direction abruptly, separation occurs for the particles with higher relative mass. When pre-separation is used to accommodate higher material volumes it is also important to consider the type of material discharge to be used. Dustcontrol offers a range of different standard options including: screw compaction, airlocks or container collection.



Cyclone Pre-Separators

Type of Material	Air Flow	Select pre-separator
All types, particularly where a large percentage is fine particulate	100–500 m ³ /h	DCF Mobil
	100–200 m ³ /h	DCF 2500
	200–500 m ³ /h	DCF 3500
	500–700 m ³ /h	F 8000
	500–1000 m ³ /h	F 11000
	1000–4000 m ³ /h	F 20000
	2000–5000 m ³ /h	F 30000

Discharge to	Volume	Equipment
Plastic sack	lesser	Discharge cone
Compacted in plastic sack	greater	Auger Compactor
Open Container, Conveyor	lesser	Foot Valves/Auto Foot Valve/Discharge Valves
	greater	Peristaltic Airlock
Container	lesser	Plastic and Steel Container
	greater	Tipping Container

Inertial Pre-Separators

Material Type	Air Flow	Volume	Select Pre-Separator
Coarse and dense	250–2000 m ³ /h	moderate	Stainless dispenser
	250–2000 m ³ /h	large	Container

DCF Mobile

DCF Mobile Standard	Part No 7010
DCF Mobile	
C/W Plastic sack	Part No 7074
DCF Mobile Liquid separator	Part No 7073
DCF Mobile Water separator	Part No 7009
DCF Mobile With cyclone	Part No 7097

The DCF Mobile is suitable for the separation of different types of coarse material, liquids and water. It is light and fitted with wheels, so it can be connected to the workplace directly, thereby reducing the loading on the ducting system and minimizing the risk of blockage.

DCF Mobile is the standard model of the mobile pre-separator. For emptying, the snap-on catches on the top cover are released and the material is shoved or tipped out.

C/W Plastic sack



The DC F Mobile complete with plastic sack has the same fittings as the standard model plus plastic sacks and a pressure compensating hose in order to obtain the same vacuum outside and inside the plastic sack. This preseparator is suitable for use when handling asbestos, silica and other materials which need to be collected in a sealed package.

Liquid separator



The DC F Mobile liquid separator is fitted with intermediate grill and drain cock. It is suitable for handling chips where cutting fluids and coolants are also collected.

Water separator



The DC F Mobile water separator is fitted with Ø 50 mm drain cock. This is used where large amounts of water will be separated.

With cyclone

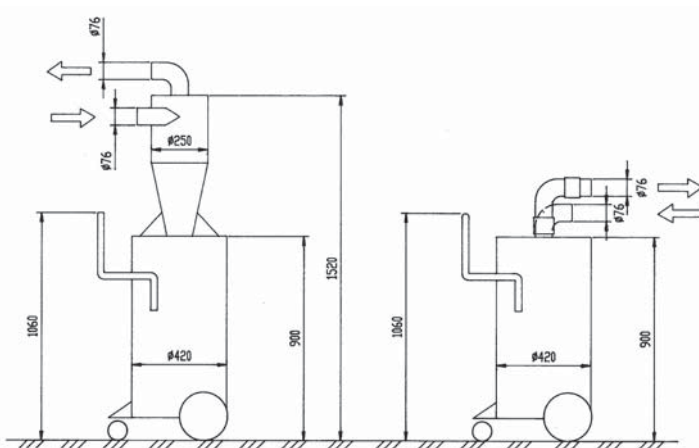


The DC F Mobile cyclone has a high efficiency cyclone mounted in the top cover. Thanks to the small diameter of the cylinder in relation to its height and to the specially shaped inlet, this separator can separate even smaller and lighter materials such as asbestos fibres. The separated material then falls into the container which is fitted with a plastic sack for dust-free handling.

Accessories

Part No. 4714 Collecting sack, 50 pack for Part No. 7074 and 7097

Dimensions

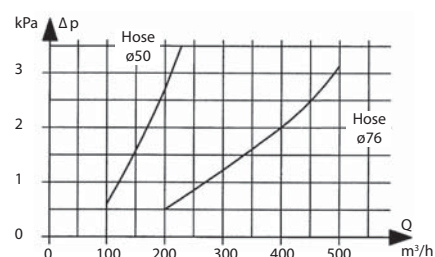


TECHNICAL DATA

DCF Mobile-

Container volume	95 l
Height	900 mm/1650 mm (with cyclone)
Container diameter	440 mm
Weight	30 kg/35 kg (with cyclone)
Inlet/Outlet	Ø 76 mm
Air Flow	100–500 m ³ /h

Pressure Loss



Cyclone separator cover

Part No 7367

When large amounts of dust are produced, a DC 5800 can be complemented with a cyclone separator cover mounted directly onto a 200 litre standard barrel. The 200 litre barrel is not supplied by Dustcontrol.

TECHNICAL DATA Cyclone separator cover

Height	580 mm
Cyclone diameter	Ø 250 mm
Barrel diameter	Ø 620
Weight	ca 10 kg
Inlet/outlet	Ø 76 mm



Cyclone separator cover

DC F Wheelbarrow

Part No 7130

The DC F Wheelbarrow is a mobile pre-separator designed like a wheelbarrow for ease of use. A small cyclone with two inlets is fitted in the container which can hold ca 120 l. Two tools or cleaning implements can be connected simultaneously. The container has a special hatch so that material can be shovelled in and out.

TECHNICAL DATA

Filling volume	120 l
H x W x L	1200 x 640 x 1350 mm
Cyclone	Ø 250 mm
Weight	50 kg
Inlets x2/Outlet x1	Ø 76 mm



The DC F Wheelbarrow

ACCESSORIES

Description	Part. No
Rubber plug	4016
Tipping protector	4675

DC F 2800

Part No 7372

The DC F 2800 pre-separator is often used in combination with, for example the DC 2800-machines, in order to separate material for recycling, e.g. aluminium or brass.

TECHNICAL DATA

Sack volume	40 l
H x W x L	1000 x 450 x 540 mm
Cyclone	Ø 250 mm
Weight	10 kg
Inlet/Outlet	X 50 mm



The DC F 2800

F 2500, F 3500

Part No 700501	F 2500
Part No 7061	F 2500, Fluid separator $\phi 76$
Part No 7379	F 2500 with Counter Balance Arrangement
Part No 706001	F 3500
Part No 7157	F 3500 Fluid separator $\phi 76$
Part No 7156	F 3500 with cone D=160
Part No 7383	F 3500 with Counter Balance Arrangement

The F 2500 and F 3500 are wall mounted cyclone type pre-separators used directly at the work station to relieve loading on the tubing system/filter or for separation of recoverable material. These can also be used as central pre-separators in smaller systems with the DC 3800 and DC 11-Module respectively.

Accessories

Part No 42384	Plastic Sack F 2500 25 pcs Antistatic
Part No 4314	Plastic Sack F 3500 50 pcs
Part No 4814	Plastic Sack F 2500 50 pcs
Part No 7067	Discharge Valve 160 mm

Installed for discharge to an open container. Controlled discharge can occur with this pneumatically actuated valve. Must be connected to a suitable control panel.

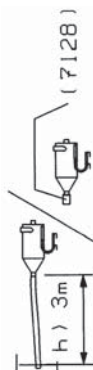
Part No. 7128 Return Valve for Fluid Separator

TECHNICAL DATA F 2500

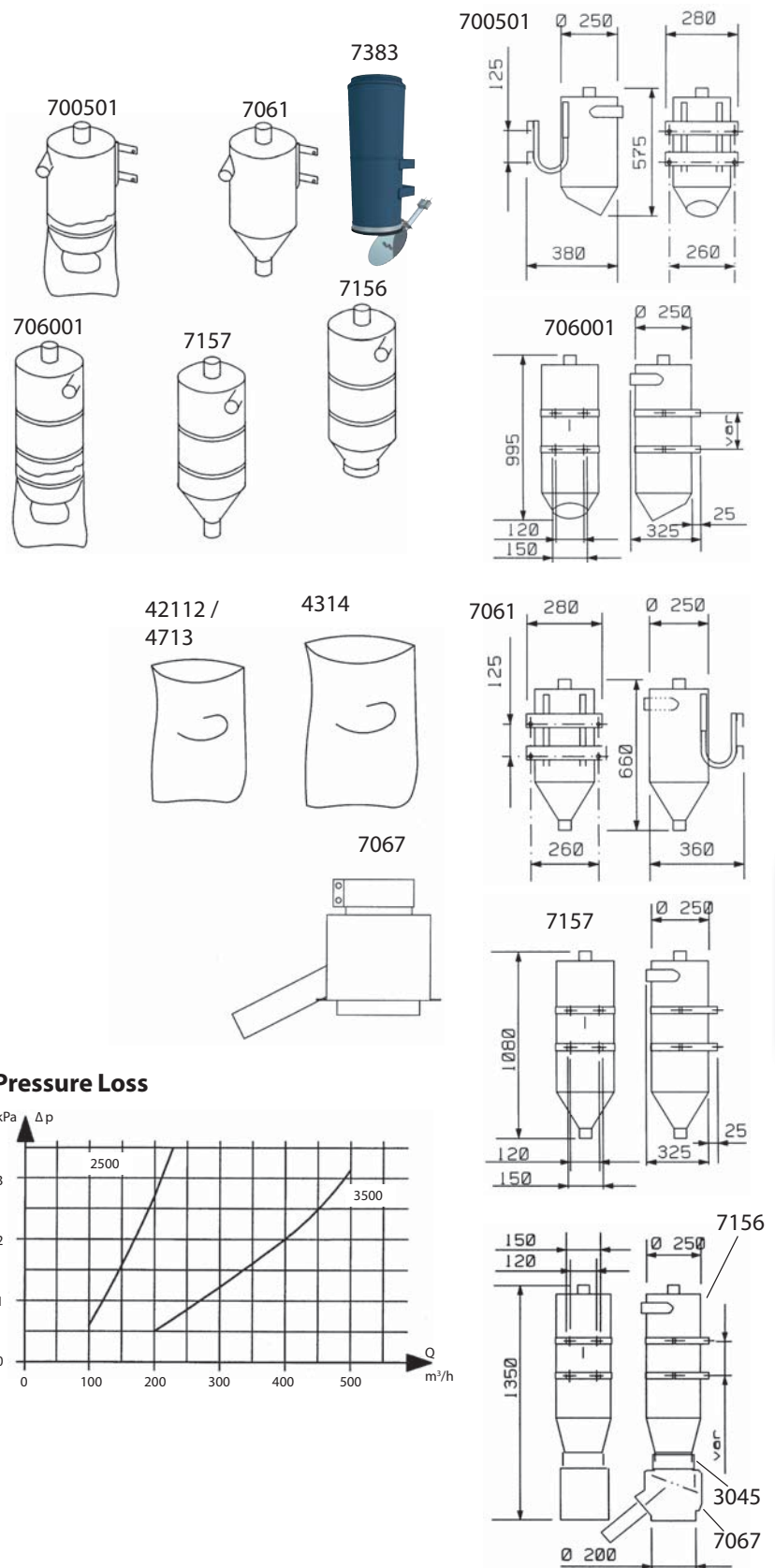
F 3500

Weight kg	5	13
In-/outlet mm	$\phi 50$	$\phi 76$
Air Flow m^3/h	100-200	200-500

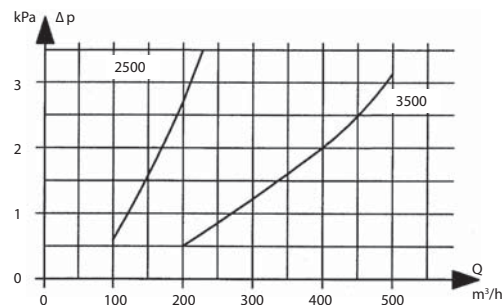
Installed for cooling fluid return from the fluid separator to fluid sump for re-use. If the fluid separator cannot be mounted at 3m height, this return valve must be used to avoid drawing fluid into the system.



Dimensions, Installation Examples



Pressure Loss



F 8000

The F 8000 is a high efficiency cyclone separator for the separation of fine and light dust, e.g. wood dust.

Part No	Description
7450	F 8000 Complete
7344	F 8000 Cyclone
7345	F 8000 Body Module
3037	Console 500 mm (2 pcs req'd)
7303	Auto Foot Valve 400 mm

The F 8000 cyclone can be equipped with a 40407 module ring to create a larger storage capacity. For alternatives to Part No. 7303, see discharge options.

F 11000

The F 11000 is a modular cyclone pre-separator that is very flexible and can be configured easily to an exact requirement. Discharge equipment options can be used alternatively to the discharge cone with plastic sack collection.

Part No.	Description
7177	F 11000 Complete
7179	Floor Stand, complete
5024	Wall Mount, complete
4706	Discharge Cone
4614	Collection Sack, 50 pack
42429	Collection Sack 25 st, antistatic

Accessories

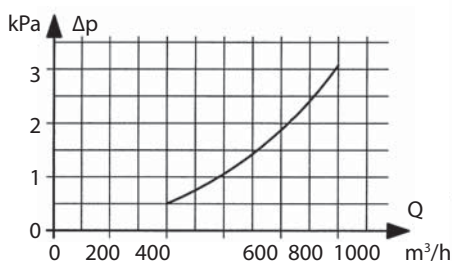
Part No 40186 Pressure Relief Module
Used in applications with explosible materials. This module replaces the normal body module. The relief module is equipped with a pressure relief port to relieve the pressure wave in a deflagration. The relief port must relieve to atmosphere in accordance with the prevailing local standards. The separator must discharge to a closed container.

Part No 7311 Vortex Tube
Part No 40407 Body Module, complete

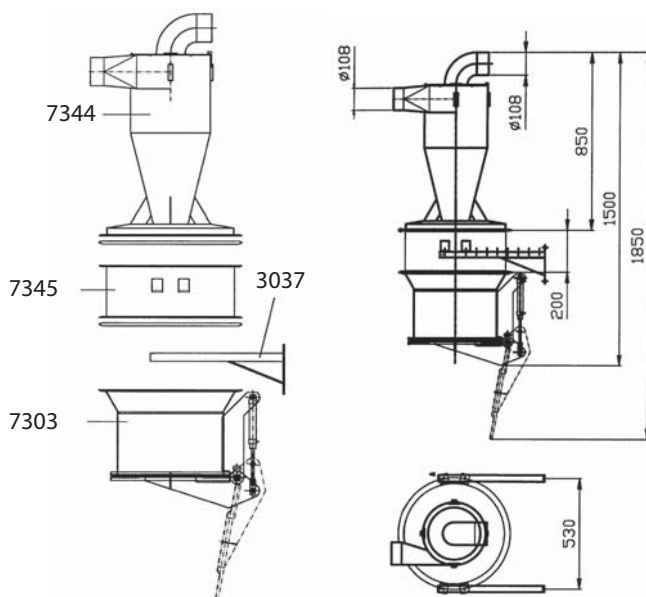
Used in applications with light dust, i.e.: paper. Separation can be improved by equipping the pre-separator with a vortex tube and by increasing the height with an extra body module.

Part No 7290 Widening Chassis
Used in applications where the separator is to discharge into a larger container such as a tipping container.

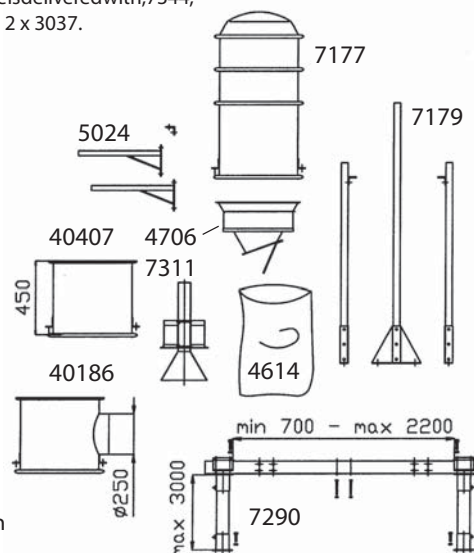
Pressure Loss F 8000 and F 11000



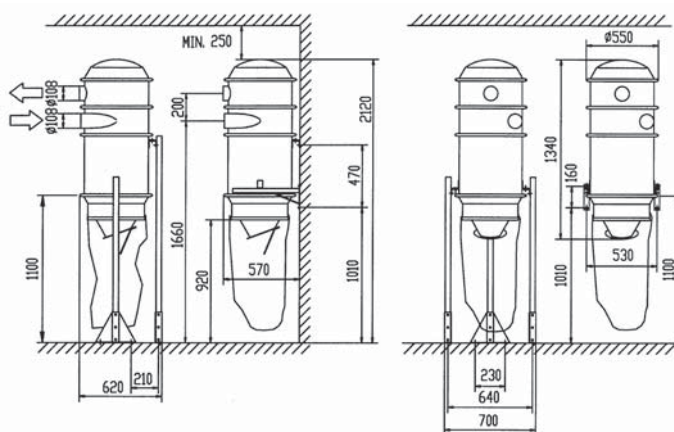
Dimensions, Installation Example



Part No 7450 F8000 Complete is delivered with 7344, 7345, 7303 och 2 x 3037.



Dimensions, Installation Example



TECHNICAL DATA F 8000

F 11000

Weight, kg	ca 15	ca 45
Inlet, mm	ø 108	ø 108
Outlet, mm	ø 108	ø 108
Flow m³/h	500–700	500–1000
Body dia. mm	ø 300	ø 477

F 20000

The F 20000 is a modular cyclone separator for larger systems. The unit must be equipped with the appropriate inlet module and discharge arrangement, e.g.: discharge cone or alternative selection.

Part No 7185 F 20000 Complete

Part No 4706 Discharge Cone

Part No 4714 Collection Sack, 50 pack

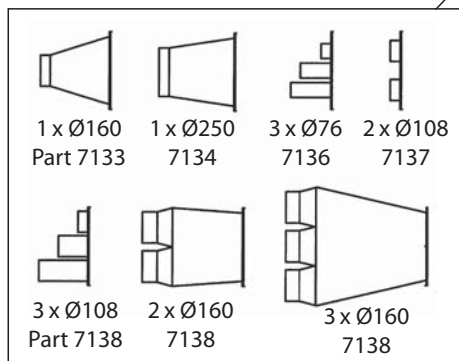
Part No 42429 Collection Sack 25 pack, antistatic

Accessories

Part No 40187 Pressure Relief Module

Used in applications with explosive dusts. The module is equipped with a pressure relief port to relieve the pressure wave in a deflagration. The relief port must relieve to atmosphere in accordance with the prevailing local standards. This module replaces the normal body module. The separator must discharge to closed container.

Inlet modules



Part No. 7189 Vortex Tube

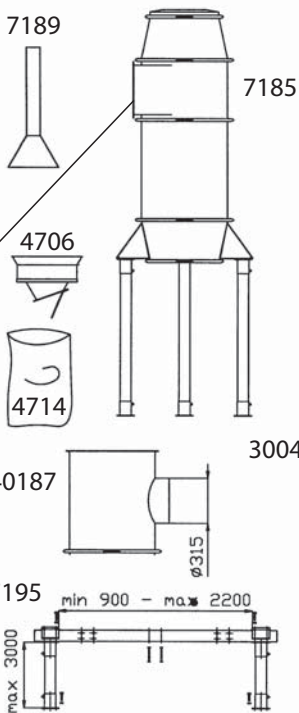
Used in applications with light dust, e.g. paper, to increase separation efficiency of the separator.

Part No. 7195 Widening Chassis

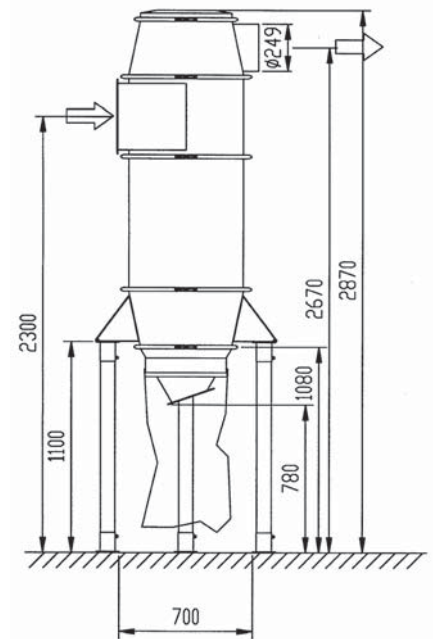
For applications where material is to be discharged into a larger receiver such as a tipping container. "With legs > 3000 mm a widening chassis should be ordered."

Part No. 3004 Steel Tube 76 mm, galvanised

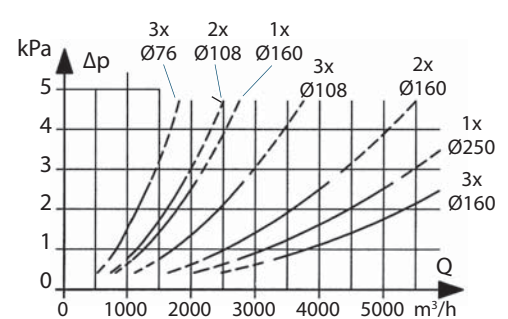
Ordered by the meter and delivered in 3 m lengths. Used when leg length required is greater than the 1400 mm legs delivered with the unit.



Dimensions, Installation Example



Pressure Loss F 20000 and F 30000



The solid line represents the recommended flow for respective inlets.

F 30000

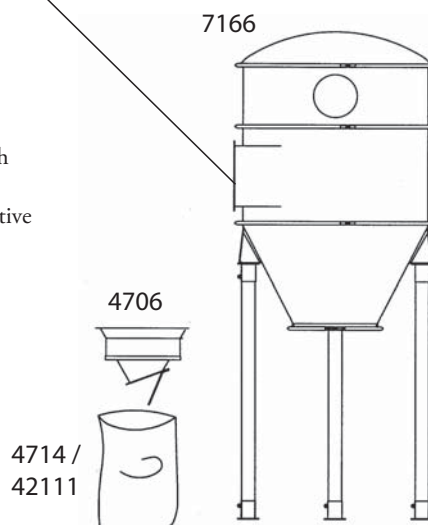
The F 30000 is a modular cyclone separator for large systems. The configuration of the separator is easily tailored to the specific application. The unit must be equipped with the appropriate inlet module and discharge arrangement, e.g.: discharge cone or alternative selection.

Part No 7166 F 30000 Complete

Part No 4706 Discharge Cone

Part No 4714 Collection Sack, 50 pack

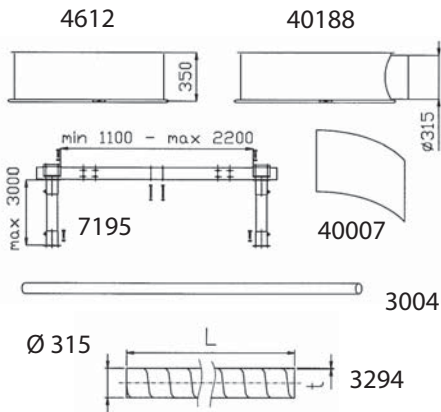
Part No 42429 Collection Sack, 25 pack Antistatic



TECHNICAL DATA F 20000 F 30000

Weight, kg	ca 120	ca 170
Inlet, mm	optional	optional
Outlet, mm	Ø250	Ø250
Flow, m³/h	1000–4000	2000–500
Body dia.	Ø596 mm	Ø1045 mm

Accessories F 30000



Part No 40188 Pressure Relief Module
Used in applications with explosive dust. The module is equipped with a pressure relief port to relieve the pressure wave in a deflagration. The relief port must relieve to atmosphere in accordance with the prevailing local standards. The module is installed between the inlet module and the cone.

Part No 3294 Spiral tubing Ø 315
For connection to pressure relief module.

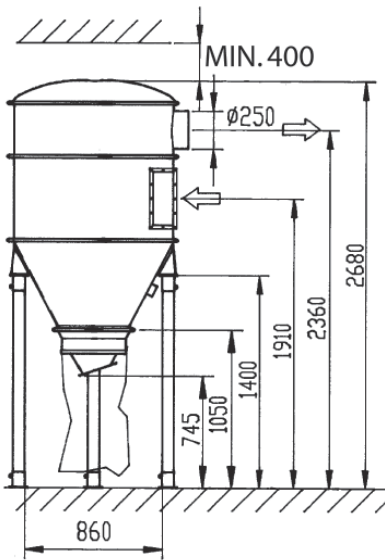
Part No 4612 Body Module
Increases the height of the cyclone and can increase separation efficiency for some materials.

Part No 40007 Inlet Wear Plate
This is installed in the inlet module of the separator and increases the resistance to abrasion caused by incoming material in the gas flow.

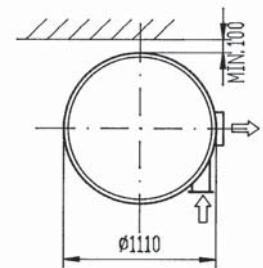
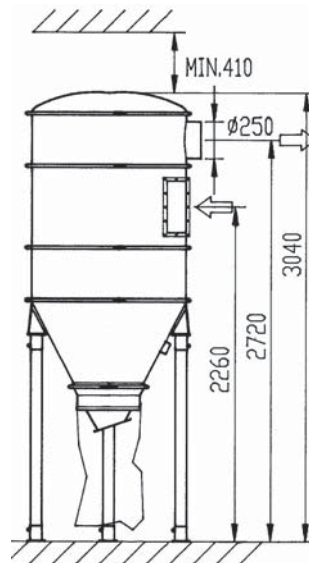
Part No 7195 Widening Chassis
For applications where material is to be discharged into a larger receiver such as a tipping container. For leg lengths greater than 1400 mm, order Part No. 3004 steel tube.

Part No 3004 Steel Tube 76 mm, galvanised
Ordered by the meter and delivered in 3 m. lengths. Used when leg length required is greater than the 1400 mm legs delivered with the unit.

Dimensions, Installation Example F 30000

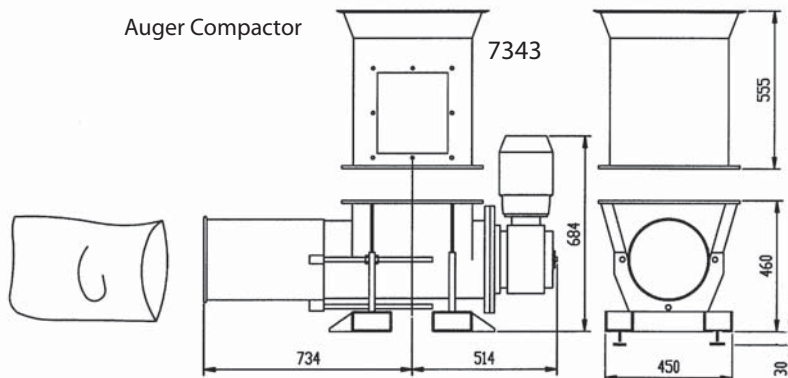


F30000 with Part No. 4706. Discharge Cone



F30000 with Part No. 4706 Discharge Cone and 4612 Body Module

Discharge Arrangements for: F 8000, F 11000, F 20000, F 30000, S 11000, S 32000 and S 34000



Part No. 7343 Auger Compactor Connection
Part No. 7065 Auger Compactor
This arrangement is used for material that can be compacted, e.g. paper dust and strips. Collected material is compacted and discharged

into a plastic collection sack. The drive motor control should be configured to reverse for several seconds to clear occasional clogs.

Part No. 4714 Collection Sack, 50 Pack

TECHNICAL DATA

Flange, outer mm	500x500
inner mm	425x425
Weight	218 kg
Capacity	2-5 m ³ /h
Motor Power	2.2 kW
Voltage	230/400 V
Max Op. Pressure	40 kPa
Service Interval	1500 h
(1st service 300 h)	

Continuous Discharge Arrangements for: F 8000, F 11000, F 20000, F 30000, S 11000, S 32000 and S 34000

Part No 7131 Counter Balance for Discharge Cone (Part No 4706)

The rubber flap on the discharge cone is replaced with the counter balance flap. This unit will close when the system is under operation. When the system is at rest, collected material will be discharged into an open container. Note: only for use with suitable materials.

Part No 7338 Counter Balance Foot Valve 400 mm

This arrangement replaces the standard cone and functions by closing automatically when the system is in operation and releasing collected material when the system is at rest. Note: only for use with suitable material.

Part No 7303 Auto Foot Valve 400 mm

This is an automatically controlled, pneumatically actuated foot valve that opens when the system is at rest. It is used for the discharge of materials into an open container and should be used only with materials that will flow.

Part No 706801 Reduction Cone 400/160 mm

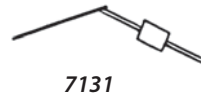
Part No 706701 Discharge Valve 160 mm

This automatically controlled, pneumatically actuated valve can discharge collected material from the separator when the system is at rest. It is used for discharge into an open container or conveyor. The material must have good flow characteristics.

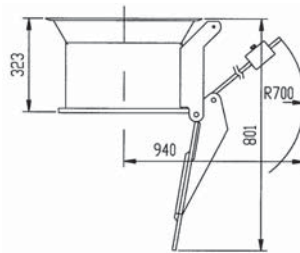
Part No 7341 Discharge Valve 400 mm

This automatically controlled, pneumatically actuated valve can discharge collected material from the separator when the system is at rest. It is used for discharge into an open container or conveyor. The material must have good flow characteristics.

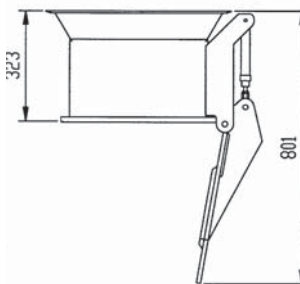
Foot Valves



7131

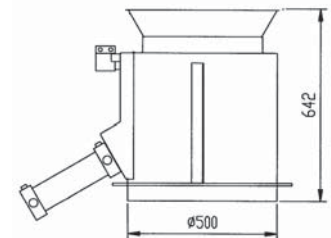
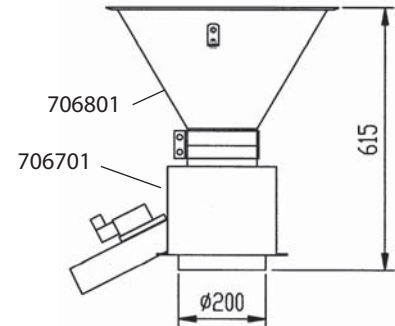


7338



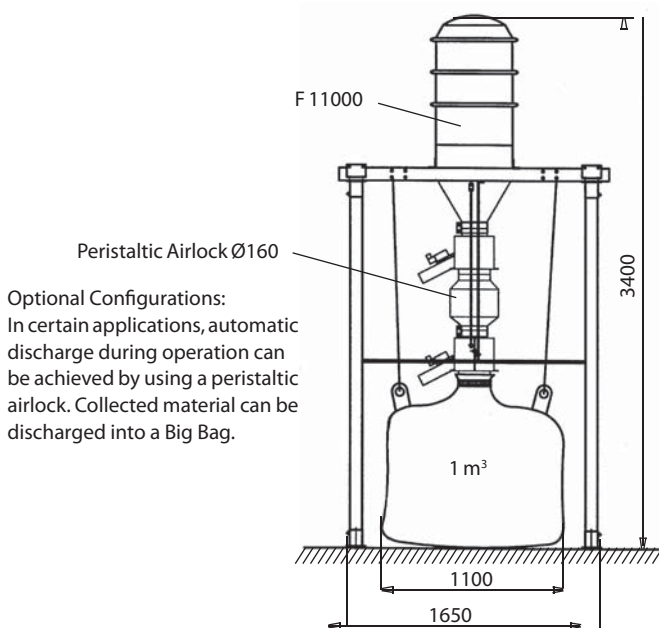
7303

Discharge Valves

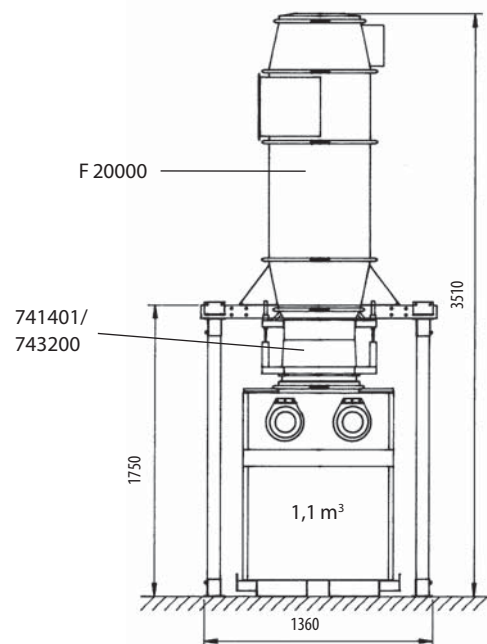


7341

Dimensions, Installation Examples



F20000 with widening chassis and discharge into a 1.1 m³ container.



Continuous Discharge Arrangements for: F 8000, F 11000, F 20000, F 30000, S 11000, S 32000 and S 34000

Peristaltic Airlock

Continuous discharge of material during operation can be achieved by installing two valves in series with an intermediate receiver. The material must be of such a nature that it flows easily.

Part No 706801 Reduction Cone, 400/160 mm

Part No 708800 Peristaltic Airlock, 160 mm

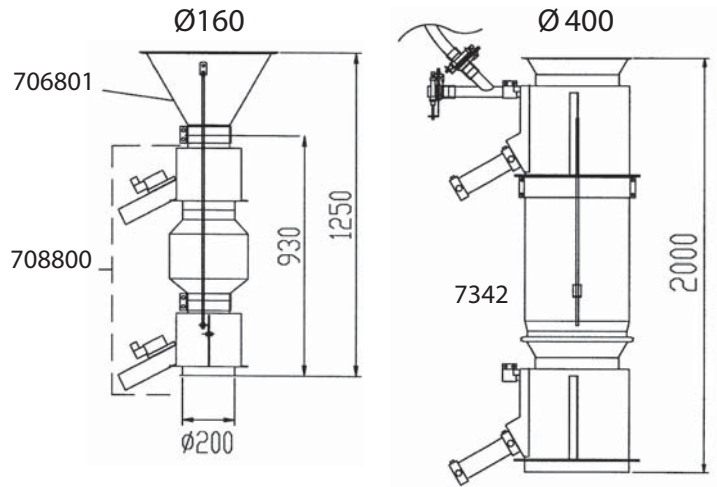
The Peristaltic Airlock 160 mm is delivered complete with solenoid valves for actuation. A separate control must be selected from page 68, see also Y2 and Y3 below. Note that the valves are normally open when not energized. The lower discharge valve must be guyed and unweighted to the chassis or legs.

Part No 7342 Peristaltic Airlock, 400 mm

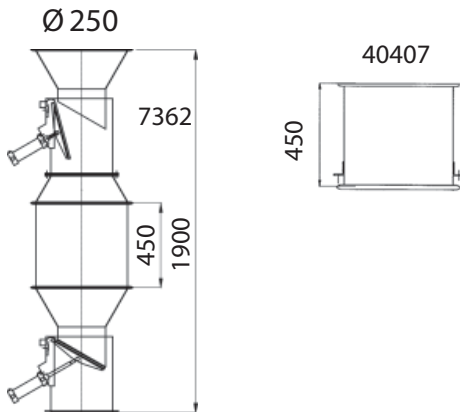
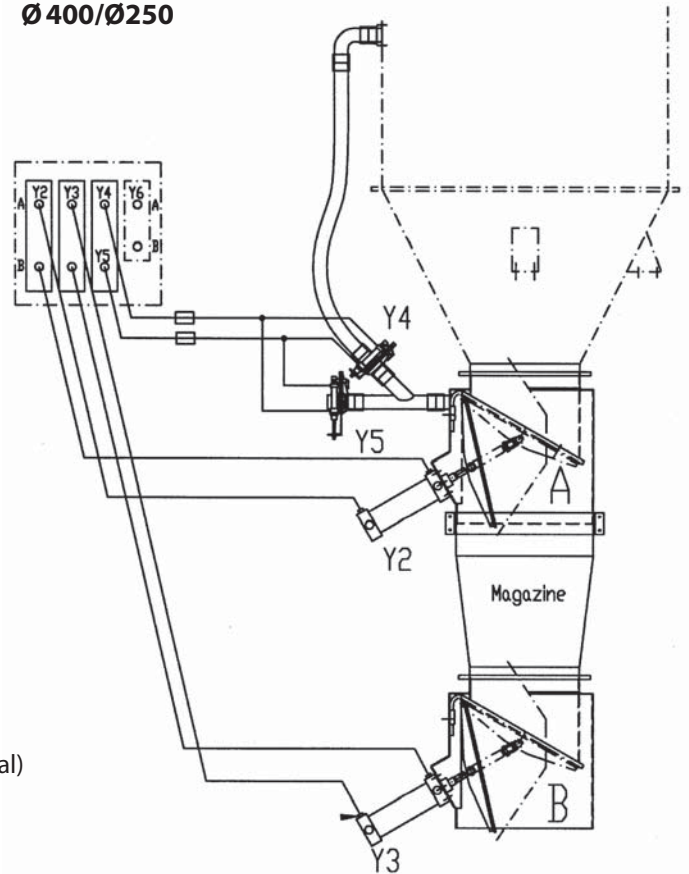
Part No 7362 Peristaltic Airlock, 250 mm

This airlock consists of two 400 mm discharge valves and auto shutter valves for pressure compensation of the valves. The airlock is delivered complete with a control solenoid block. For selection of a suitable control cycle time, see the graph below. Select a control for control of the airlock. Note that airlock pneumatic cylinders Y2 and Y3 should be open when the controlling solenoids are not energized. The lower discharge valve must be guyed and unweighted to the chassis or legs.

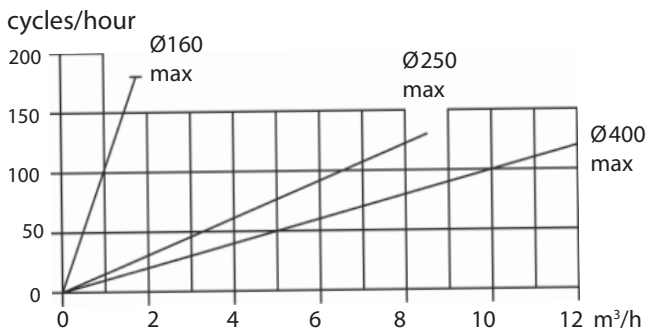
Part No 40407 Storage Module, V=140l



Connection Schematic for Peristaltic Airlock Ø400/Ø250



Discharge Capacity (average value shown – varies by material)



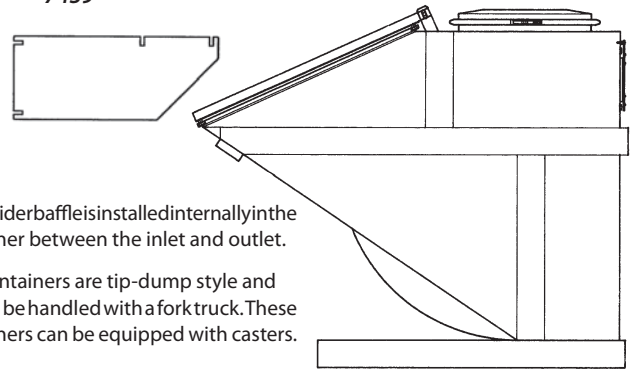
TECHNICAL DATA	Ø160	Ø250	Ø400
Volume of Receiver	12 l	110 l	190 l
Air Consumption/cycle (5 bar)	5	15	60
Solenoids 24V AC	2 pcs	4 pcs	4 pcs.
Service Interval (single shift operation)	1 year	1 year	1 year

Tipping Container

Tipping containers can be used as inertial separators by equipping the container with a divider plate and installing inlet/outlet connections on the containers rear wall. Inertial separation is particularly suited to the separation of larger quantities of coarse material. The 2.5 m³ model can be equipped with a hydraulic damper after purchase (Part No. 7458).

0.6 m³ Part No **7196**
 1.1 m³ Part No **7197**
 2.5 m³ Part No **7198**
 Divider Baffle Part No **7439**
 Hydraulic damper (2,5 m³) Part No **7458**

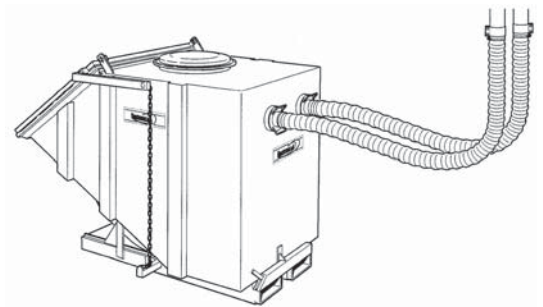
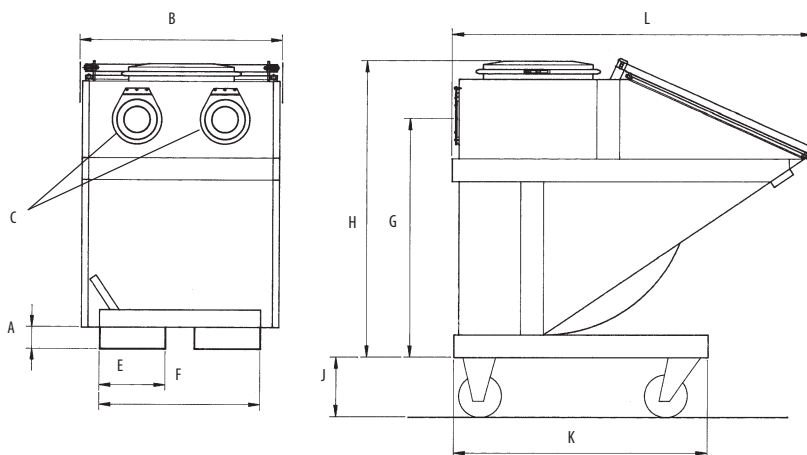
7439



The divider baffle is installed internally in the container between the inlet and outlet.

The containers are tip-dump style and should be handled with a fork truck. These containers can be equipped with casters.

Part No	m ³ (Collection volume)	m ³ (Filling volume)	kg (Volume)	kPa (Max-neg pressure)	A	B	C	E	F	G	H	J	K	L
7196	0,6	0,3	240	40	100	1076	X160	300	730	935	1180	200	1250	1590
7197	1,1	0,6	350	40	100	1096	X160	300	730	1050	1295	200	1550	1800
7198	2,5	1,3	570	40	100	1276	X160	300	730	1225	1470	200	1550	2180



Airflow, m ³ /h	Hose, Ø mm	Type, m ³
250-500	76	0.6;1.1;2.5
400-900	102	1.1;2.5
900-2000	152	2.5

Accessories

Part No 7448 Cyclone Top

To increase separation efficiency, a cyclone top can be installed on the tipping container. The container then functions as a cyclone separator with a large storage volume for collected material. Suitable air-flows are between 400–800 m³/h.

Part No 7404 Caster Set (4 pcs), max. 1600 kg

Part No 7422 Caster Set (4 pcs), max. 2200 kg

Part No 7434 Container Guide Rails

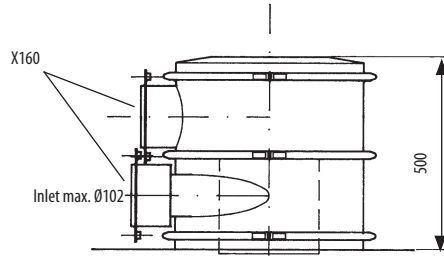
These rails should be anchored to the floor using sleeve or wedge anchors (20 required).

Part No 7436 Hose Nipple, 76/x160

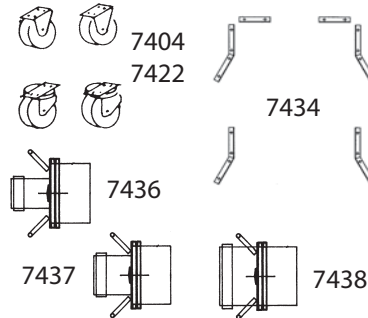
Part No 7437 Hose Nipple, 102/x160

Part No 7438 Hose Nipple, 152/x160

Accessories; bottom screen, drain cock and level sensing available by special order.



When the container is configured as an inertial separator, two hoses are connected to the rear wall of the container. Material is separated with inertial action as air entering the container changes direction abruptly.



Pressure Loss Inertial Separators

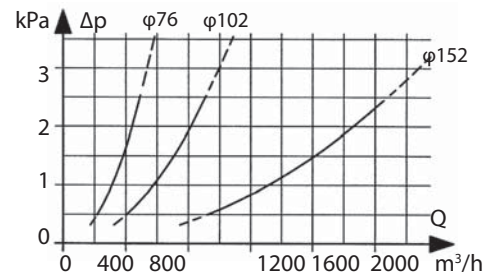


Diagram for Tipping Containers and Containers 4–8 m³.

Container

By installing inlet/outlet connections on larger containers (4–8 m³) an efficient inertial separator is built. Separation and containment of extracted waste directly in a closed container is a desirable handling method for a variety of reasons. Among these is that the system remains closed and that the handling of the waste can be done both rationally and economically.

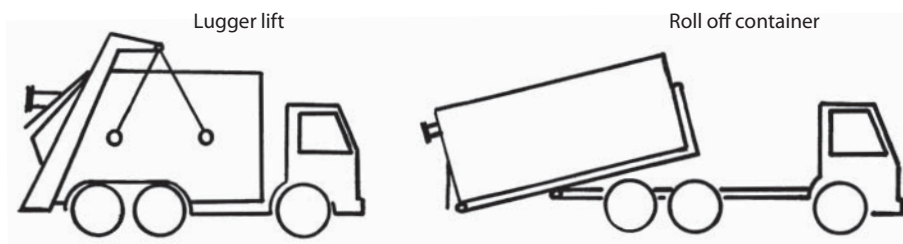
These containers can also be used as discharge arrangements for cyclones – direct connection from the separator mounted over the container.

A vacuum waste container is an integral part of the extraction system and must be designed for the negative pressure.

Different regions and waste handlers will have different handling systems, the illustrations above show several different prevalent variations.

The exact type and dimensions of that type are often determined in cooperation with the contracted waste handler. The following factors will have a bearing on the selection of container type:

- 1) Tipping cost.
- 2) Tipping in a packer truck or removal.
- 3) Distance to tipping site.
- 4) Density and weight of the separated material.
- 5) Permits required for dumping of collected material (degree of hazard classification).
- 6) Time for removal of container and the need for two containers.
- 7) Physical placement of the container, is it accessible for the handling truck?



Basis for price query on a container

Containers from Dustcontrol fill these norms:

- SMS 3020, DIN 30 722 and ISO 12944 Surface treatment

LIFTDUMPER

Size (total volume):

4 m³ 6 m³ 8 m³ 10 m³ 12 m³

Remember that the used volume most likely gets 60-70% of the total volume.

Company that takes care of the delivery:

Name:	Phone:
-------	--------

If there is any special requirements:

Max width outside: (standard 1700 mm)	Max height:	Max length:	Material:	Volume weight: kg/m ³
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Suction connection (in- and outlet)

Normally the containers are equipped with a connection that fits with tube Ø76, Ø102 or Ø152 (connection X160). Tube and connection socket is not included.

<input type="checkbox"/> standard – 1 inlet, 1 outlet	<input type="checkbox"/> multiple inlets, quantity	<input type="checkbox"/> Connection from above direct from the separator.
---	--	---

Surface treatment

As default the container is painted with 2x primer and surface blue, C2. The container is delivered unwrapped, which could convey some minor lacquer damage on delivery.

Inside			Outside		
<input type="checkbox"/> C 2	<input type="checkbox"/> C 3	<input type="checkbox"/> C 4	<input type="checkbox"/> C 2	<input type="checkbox"/> C 3	<input type="checkbox"/> C 4

Corrosive class	Environment corrosive	Some examples of the typical environments in the temperate climate zone.	
		Outdoor	Indoor
C 2	Low	Atmospheres with low content of air pollution. In the countryside.	Spaces that's not being warmed up that have varying temperature and moisture. Low frequents of moisture condensation and low amount of air pollution, e.g. sport centres and storage areas.
C 3	Moderate	Atmospheres with a certain amount of salt or moderate amount of air pollution. City area or easy industrialized areas. Areas that have some influence from the coast.	Spaces with moderate moisture and a fair amount of air pollution from production-processes, e.g. breweries, dairies or laundries.
C 4	High	Atmospheres with a moderate amount of salt or large amounts of air pollution. Industrial or coast areas.	Spaces with high moisture and a large amount of air pollution from production-processes, e.g. chemical industrial or poolhouses.

Accessories

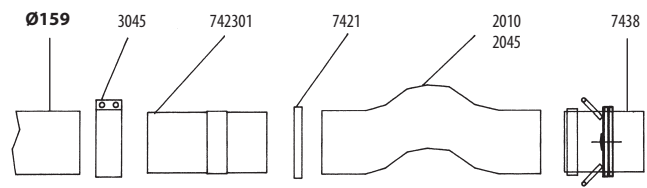
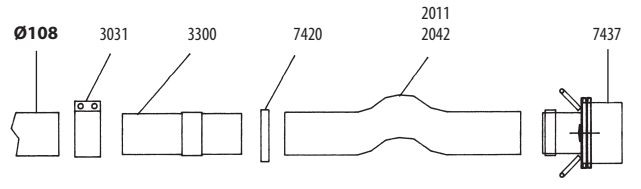
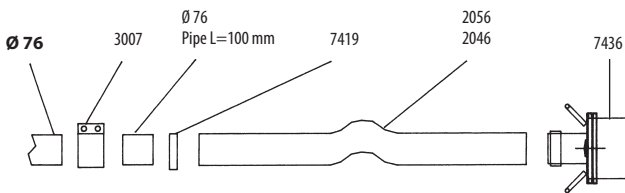
<input type="checkbox"/> Steering rail	<input type="checkbox"/> Connection from above to connections "tos" 741401	<input type="checkbox"/> Throw-in hatch Ø 350	<input type="checkbox"/> Level guard	<input type="checkbox"/> Controller contact on container at position (gives signal to steering-system).	<input type="checkbox"/> Wheels
--	--	---	--------------------------------------	---	---------------------------------

Load changer is only constructed for 12m³ and above. Load changer only on inquiry.

Arrangements for: F8000, F11000, F20000, F30000, S11000, S32000, S34000

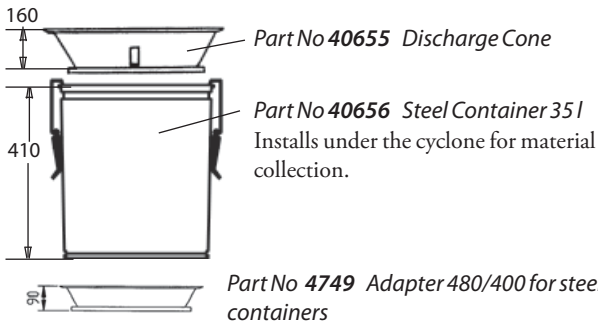
Part No	Description
2010	Suction hose 152, std
2011	Suction hose 102, std
2042	Suction hose 102 extra abrasion resistant
2045	Suction hose 152 extra abrasion resistant
2046	Suction hose 76 extra abrasion resistant
2056	Suction hose 76 PU
3007	Joint Ø 76
3031	Joint 108
3045	Joint 160

Part No	Description
3300	Pipe fitting 108/102
7404	Wheel set, 4 wheels
7419	HD hose clamp 76
7420	HD hose clamp 102
7421	HD hose clamp 160
7422	Wheel set 2,5 m ³
742301	Pipe fitting 160/152
7436	Hose fitting 76/X160
7437	Hose fitting 102/X160
7438	Hose fitting 152/X160
7448	Cyclone top

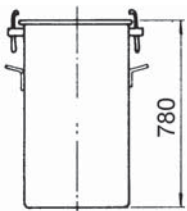


Optional accessories: Bottom grate, drain valve, tip sensor and level sensor, can be specially ordered.

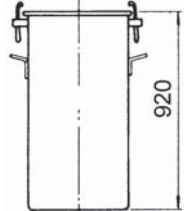
Container



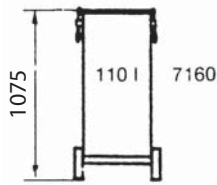
Part No 4749 Adapter 480/400 for steel containers



Part No 7066 Steel Container 90l.



Part No 7159 Steel Container 110l with collection sack.



Part No 7160 Steel Container 110l. Portable with collection sack.

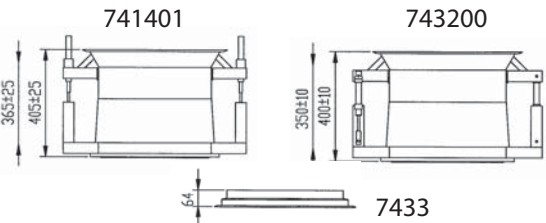


Part No 4714 Collection sack, 50 pack for art 7159 and 7160.

Part No 42111 Collection sack, 50 pack, antistatic.

Steel collection containers are mounted directly under the cyclone by using art. no. 4749 Adapter. Consider always the weight of the collected material and plan emptying of the container at suitable intervals. Note: installation of part no. 7160 requires lengthened legs on the F 20000 and F 30000.

Tipping Container



Part No 741401 Manual Intermediate Connection Secured with two eccentric locks that are locked down when the container is present.

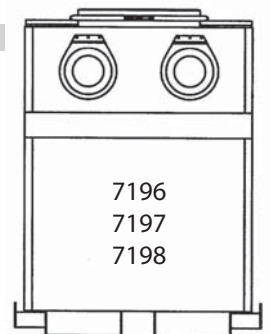
Part No 743200 Automatic Intermediate Connection Secured automatically in the down position by two pneumatic cylinders when the container is present. Can be controlled with a manual pneumatic valve, art. no. 8040 or by an optional automatic control.

Part No 7433 Adapter 442/11000 Module

Tipping Containers

Part No	Description	Collection Volume
7196	0.6 m ³	0.3 m ³
7197	1.1 m ³	0.6 m ³
7198	2.5 m ³	1.3 m ³

Tipping containers are sealed to the cyclone bottom cone with an intermediate connection and adapter. Material can continuously collect in the container. A widening chassis must be used to install the cyclone to accommodate the width of the container.



Tubing System from Dustcontrol

The tubing system transports the material from the point of collection to the central unit. Dust is generally abrasive, some more than others, therefore the standard material thickness of the tubing system is 1,5 mm. Applications with fume and light dust use reinforced spiral duct. Stainless tubing systems and extra abrasion resistant fittings are available.

Dustcontrol has a very comprehensive assortment of tubing fittings and installation hardware. This gives greater flexibility in design and installation of our tubing systems. Our mechanical jointing system makes alterations and additions very easy to carry out.

Dustcontrol launch new Tubing System

Dustcontrol launch new tubing system with fewer components, better functionality and lower sound.

It is easy to complement, change or extend your installation. With a new cone design is it easy to bring together different dimensions of tubing in a simple way. See illustrated examples.

Several of the components are manufactured from elastomers. The elastomers (EPDM- and NBR-rubber) are hardwearing and sound absorbing.

An effective tubing system has to meet certain requirements. Constant speed of air in the tubing at different loads is one requirement. Right speed of air is another. When the speed is too low the material will cause a blockage. Too much air speed leads to unnecessary wear and loss of energy. Dustcontrol's competent staff can dimension a system to your needs.

When transporting material in a tubing system turbulent flow will cause noise. Material particles bounce against the hard tubing walls. Using an elastomer in bends, branch pipes and mounting brackets

moderates the sound considerably.

Bends and branch pipes are designed to stand high negative pressure. The bends are equipped with a plate to reduce wear and minimise blockages.

Every item is equipped with a vent hole, which can be used to control and adjust the airflow in the system if required. This can prevent the deposit of material and blockage in the pipe. The vent holes can also be used as an inspection port.

Additional advantages with the new tubing system are:

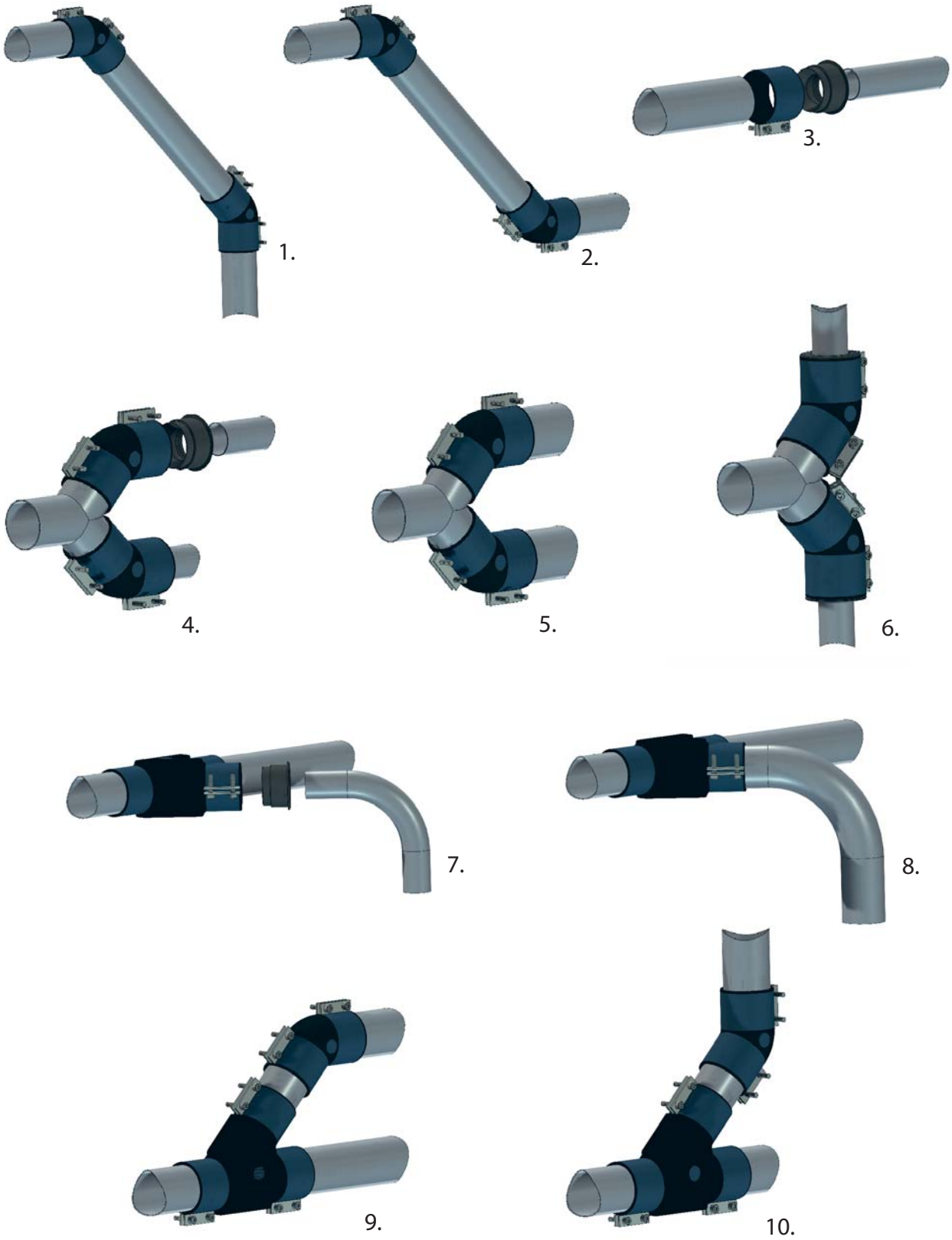
- Less static build up
- Smooth surface inside the tubing
- Components marked with Part Nos.
- High standards maintained with innovation
- Blockage potential reduced
- Less wear







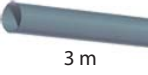


1. 2 x 45° bend (Tube length min 7 x d)
2. 2 x 45° (Tube length min 7 x d)
3. Cone Ø 76/50
4. Split pipe Ø 76/50
5. Split pipe Ø 76/76
6. Y-pipe Ø 76/50
7. Branch pipe Ø 76/50
8. Branch pipe Ø 76/76
9. Branch pipe Ø 76/76 bend straight
10. Branch pipe Ø 76/76 bend up

TECHNICAL DATA	EPDM	NBR
Temp °C max/min	140/-60	120/-60
Anti-static	Yes	Yes
Durability	Very Good	Good
UV and Ozone resistance	Very Good	Limited
Resistance to oxidation	Very Good	Good
Resistance to solvent and oil	Poor	Very good

Mounting Example



Product list

Components	Dimensions	Part No				
		EPDM	EPDM Stainless	NBR	Steel	Stainless steel
Branch Pipe (complete with joints) 	Ø 50/50	307411	3346	307412		
	Ø 76/76	300311	3347	300312		
	Ø 108/108	303511	3348	303512		
	Ø 159/159				3149 (Spiro)	
Bend 45° (complete with joints) 	Ø 50	307311	3343	307312		
	Ø 76	300911	3344	300912		
	Ø 108	302911	3345	302912		
Bend 90° 	Ø 50				3310	3314
	Ø 76				3311	3316
	Ø 108				3319	3320
	Ø 159				3043 (Spiro)	3262
Y-pipe 	Ø 50				3324	3331
	Ø 76				3323	3330
	Ø 108				3322	3329
	Ø 159				3066	
Tubing  3 m	Ø 50				3071	3211
	Ø 76				3004	3212
	Ø 108				3039	3267
	Ø 159					3227
Cone 	Ø 76/50	3305		3325		
	Ø 80/76				3197	
	Ø 108/76	3306		3326		
	Ø 108/100	3307		3327		
	Ø 125/108				3257	
Joint 	Ø 159/108	3308		3328		
	Ø 50	3077	307702	3271		
	Ø 76	3007	300702	3272		
	Ø 108	3031	303102	3273		
	Ø 159	3045		3274		

Tubing System

Tubing System Details

Cones, branch pipes and bends are manufactured in EPDM- and NBR- rubber. The components are hard- wearing and sound absorbing.

Steel Tubing

Our standard tubing system is of zinc coated carbon steel tubing and is used on 90 % of all Dustcontrol installations. Heavy wall thickness results in long life even in installations where considerable abrasion is present.

Stainless Steel Tubing

Stainless tubing is used with abrasive materials or because of hygienic considerations. When installed in material transportation, long radius bends should be used.

Reinforced Spiro Tubing

Spiro tubing is used most commonly for the connection of the central unit components, vacuum producer, filter unit and pre-separator. Spiro is not generally suitable for application with coarse and abrasive material but is commonly used in extraction systems for vapour, fume and light dust.

Abrasion Resistant Bends

In systems used for transporting extremely aggressive material, special precautions are required. Abrasion resistant bends are available and are cast material with a wall thickness of 8 mm. These have exceptional wear characteristics.

Some examples of materials which require special consideration are as follows:

- fly ash
- cast metal dust and chips
- slag
- sand and gravel
- blasting media

As an alternative and complement to abrasion resistant bends, tubing can be delivered with an internal ceramic coating. Coatings of bends and branch tubes can be special ordered. Ceramic coated bends are most suitable for fine dust and light material.

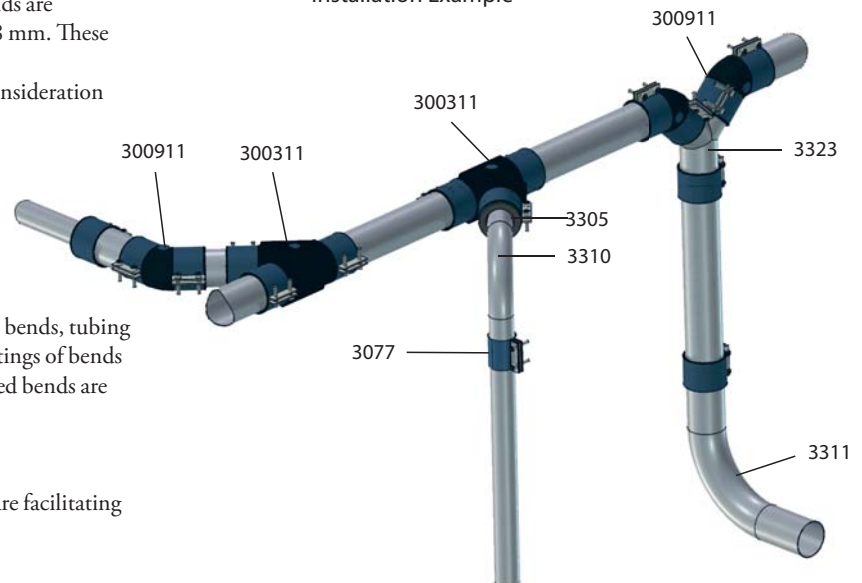
Mounting Hardware

Dustcontrol has a complete range of mounting hardware facilitating straightforward installation as well as changes.

Transport of	Air Flow	Tube Dimension	
dust, coarse and heavy material	(100–260 m ³ /h)	Ø 50 *)	
	300–600 m ³ /h	Ø 76	
	600–1200 m ³ /h	Ø 108	
	1200–2600 m ³ /h	Ø 159	
fume, vapour and clean air	180–320 m ³ /h	Ø 76	Steel Tubing
	320–550 m ³ /h	Ø 100	Reinforced
			Spiral Tubing
	370–620 m ³ /h	Ø 108	Steel Tubing
	510–850 m ³ /h	Ø 125	Reinforced
			Spiral Tubing
	840–1400 m ³ /h	Ø 159/Ø 160	Steel Tubing/ Reinforced
			Spiral Tubing
	1300–2200 m ³ /h	Ø 200	Reinforced
			Spiral Tubing
	2100–3500 m ³ /h	Ø 250	Reinforced
			Spiral Tubing

*) on most systems, 76 mm should be selected as the smallest tube diameter. Only systems where a small air-flow is desired or installation is more easily facilitated should 50 mm be used.

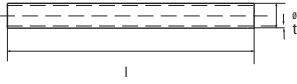
Installation Example



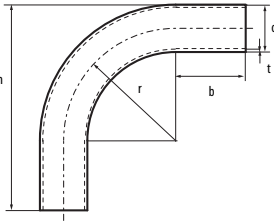
Tubing System

The measurements are in millimeter if nothing else is given.

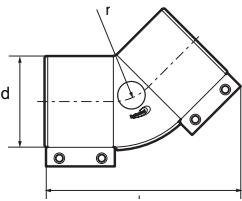
Tubing



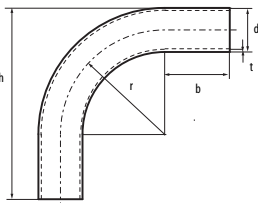
Bend 90°



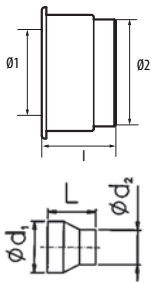
Bend 45° (complete with joints)



Bend, extended



Cone



3197, 3257

Part No	Desc.	Material	Ø	l(m)	t	m (kg/m)
3071	Ø50	Steel ¹	50.8	3	1.5	1.82
3340**	Ø50	Steel ¹	50.8	0.135	1.5	1.82
3211	Ø50	Stainless ²	50.8	3	1	1.3
3004	Ø76*	Steel ¹	76	3	1.5	2.58
3341**	Ø76	Steel ¹	76	0.135	1.5	2.58
3212	Ø76	Stainless ²	76	3	1	1.9
3039	Ø108*	Steel ¹	108	3	1.5	3.94
3342**	Ø108	Steel ¹	108	0.135	1.5	3.94
3267	Ø108	Stainless ²	108	3	2	5.2
3227	Ø159	Stainless ²	159	3	1	4.0
3060	Ø159	Steel	159	3	2	7.74

* Full handle of 6 m lengths, totally 114 m: Part No 3278, Ø76*, Part No 3279, Ø108*

** When mounting bend 45° down from a branchpipe.

Part No	Desc.	Material	Ø	r	b	t	h	m(kg)
3310	bend Ø 50	Steel ¹	50.8	120	75	1.5	220	0.6
3314	bend Ø 50	Stainless ²	50.8	120	75	1.5	220	0.6
3309	bend Ø 50	Steel ¹	50.8	85	75	1.5	185	0.3
3117	bend Ø 50	Steel ¹	50.8	50	—	1.5	185	0.3
3118	bend Ø 50	Steel ¹	76	65	—	1.5	150	0.55
3311	bend Ø 76	Steel ¹	76	160	115	1.5	313	1.3
3316	bend Ø 76	Stainless ²	76	160	115	1.5	313	1.3
3319	bend Ø 108	Steel ¹	108	160	165	2.0	380	3.0
3320	bend Ø 108	Stainless ²	108	160	165	2.0	380	3.0
3262	bend Ø 159	Stainless ²	159	87	90	1.0	260	1.75
3043	bend Ø 159	Spiro ⁵	159	160	—	1.0	160	0.8

Part No	Desc.	Material	α	d	l	r	m(kg)
307311	bend Ø 50	EPDM ³	45°	50.8	150	66	0.5
3343	bend Ø 50	EPDM ³ stainless	45°	50.8	150	66	0.5
307312	bend Ø 50	NBR ⁴	45°	50.8	150	66	0.5
300911	bend Ø 76	EPDM ³	45°	76	170	79	0.6
3344	bend Ø 76	EPDM ³ stainless	45°	76	170	79	0.6
300912	bend Ø 76	NBR ⁴	45°	76	170	79	0.6
302911	bend Ø 108	EPDM ³	45°	108	195	94	0.8
3345	bend Ø 108	EPDM ³ stainless	45°	108	195	94	0.8
302912	bend Ø 108	NBR ⁴	45°	108	195	94	0.8

Part No	Desc.	Material	α	Ø	r	b	t	m(kg)
3169	Ø 76	Steel ¹	90°	76	175	150	2.9	3.0
3266	Ø 76	Stainless ²	90°	76	460	—	2	3.2
3165	Ø 108	Steel ¹	90°	108	250	150	3.6	6.5
3303	Ø 108	Stainless ²	90°	108	800	150	2	10
3161	Ø 159	Steel ¹	90°	159	375	150	4.5	15.3

For other dimensions, please contact Dustcontrol.

Part No	Desc.	Material	Ø1	Ø2	l	t	m(kg)
3305	Ø 76/50	EPDM ³	50.8	76	50	—	0.14
3325	Ø 76/50	NBR ⁴	50.8	76	50	—	0.14
3197	Ø 80/76	Steel ¹	76	80	70	2.0	0.15
3306	Ø 108/76	EPDM ³	76	108	55	—	0.25
3326	Ø 108/76	NBR ⁴	76	108	55	—	0.25
3327	Ø 108/100	NBR ⁴	100	108	35	—	0.06
3307	Ø 108/100	EPDM ³	100	108	35	—	0.06
3257	Ø 125/108	Stainless ²	108	125	230	1.5	1.1
3308	Ø 159/108	EPDM ³	108	159	70	—	0.72
3328	Ø 159/108	NBR ⁴	108	159	70	—	0.72

¹Carbon Steel Zink Coated, 1311.

²Stainless steel SS2333/Grade 1.4301/DIN X 5 CrNi 1810/UNSS30400/AFNOR Z 6 CN 18.09/ANSI 304/BS 304S15.

³Rubber, EPDM.

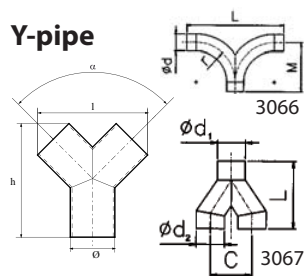
⁴Rubber, NBR.

⁵Reinforced Spiral Tubing.

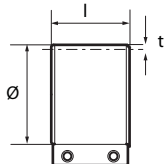
For information about material properties see page 110.

Tubing System

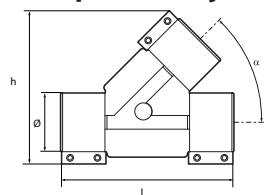
Y-pipe



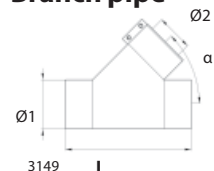
Joint



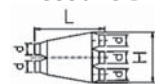
Branch pipe 45° (complete with joints)



Branch pipe



Pressure Distributor box



End cap for steel tubing



Part No	Desc.	Material	α	\emptyset	l	h	t	m(kg)
3324	Ø 50	Steel ¹	90°	50.8	150	175	1.5	0.42
3331	Ø 50	Stainless ²	90°	50.8	150	175	1.5	0.42
3323	Ø 76	Steel ¹	90°	76	190	195	1.5	0.68
3330	Ø 76	Stainless ²	90°	76	190	195	1.5	0.68
3322	Ø 108	Steel ¹	90°	108	235	225	2.0	1.4
3329	Ø 108	Stainless ²	90°	108	235	225	2.0	1.4
3066	Ø 159	Steel ¹	180°	159	850	505	4.5	2.3
3067	Ø 159	Steel ¹	0°	159	850	458	2.0	6.0

Part No	Desc.	Material	\emptyset	l	t	m(kg)
3077	Ø 50	EPDM ³	50,8	65	4.5	0.2
307702	Ø 50	EPDM ³ stainless	50,8	65	4.5	0.2
3271	Ø 50	NBR ⁴	50,8	65	4.5	0.2
3007	Ø 76	EPDM ³	76	65	5.0	0.3
300702	Ø 76	EPDM ³ stainless	76	65	5.0	0.3
3272	Ø 76	NBR ⁴	76	65	5.0	0.3
3031	Ø 108	EPDM ³	108	65	5.5	0.4
3273	Ø 108	NBR ⁴	108	65	5.5	0.4
303102	Ø 108	EPDM ³ stainless	108	65	6.5	0.5
3045	Ø 159	EPDM ³	159	65	6.5	0.5
3274	Ø 159	NBR ⁴	159	65	6.5	0.5

Part No	Desc.	Material	α	\emptyset	l	h	m(kg)
307411	Ø 50	EPDM ³	45°	50.8	220	150	0.8
3346	Ø 50	EPDM ³ stainless	45°	50.8	220	150	0.8
307412	Ø 50	NBR ⁴	45°	50.8	220	150	0.8
300311	Ø 76	EPDM ³	45°	76	250	200	1.2
3347	Ø 76	EPDM ³ stainless	45°	76	250	200	1.2
300313	Ø 76	NBR ⁴	45°	76	250	200	1.2
303511	Ø 108	EPDM ³	45°	108	300	260	1.6
3348	Ø 108	EPDM ³ stainless	45°	108	300	260	1.6
303512	Ø 108	NBR ⁴	45°	108	300	260	1.6

Part No	Desc.	Material	α	$\emptyset 1$	$\emptyset 2$	l	m(kg)
3149*	Ø 159/159	Spiro ⁵	45°	159	159	370	2.5

*For Ø 159/108 use 3308 cone and 3045 joint.

Part No	Desc.	\emptyset	L	H	B	m (kg)
3057	3/2	108	650	472	110	10
3058	2/2	108	550	315	110	7

Part No	Desc.	\emptyset
3172	Ø 50	50.8
3174	Ø 76	76
3906	Ø 108	108

¹Carbon Steel Zink Coated, 1311.

²Stainless steel SS2333/Grade 1.4301/DIN X 5 CrNi 1810/UNSS30400/AFNOR Z 6 CN 18.09/ANSI 304/BS 304S15.

³Rubber, EPDM.

⁴Rubber, NBR.

⁵Reinforced Spiral Tubing.

For information about material properties see page 112.

Material properties

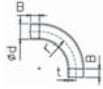
Description	Dimension Ø	Part No	Colour	Material	Temp °C max/min	Antistatic*	Abrasion resistance	UV and zone resistance	Resistance to Welding Fume	Resistance to solvent and oil
Branch pipe (complete)	50	307411	Black	EPDM	140/-60	Yes	2	1	2	4
	76	300311	Black	EPDM	140/-60	Yes	2	1	2	4
	108	303511	Black	EPDM	140/-60	Yes	2	1	2	4
Branch pipe (complete)	50	307412	Grey	NBR	120/-60	Yes	2	3	3	2
	76	300312	Grey	NBR	120/-60	Yes	2	3	3	2
	108	303512	Grey	NBR	120/-60	Yes	2	3	3	2
Bend 45°	50	307311	Black	EPDM	140/-60	Yes	2	1	2	4
	76	300911	Black	EPDM	140/-60	Yes	2	1	2	4
	108	302911	Black	EPDM	140/-60	Yes	2	1	2	4
Bend 45°	50	307312	Grey	NBR	120/-60	Yes	2	3	3	2
	76	300912	Grey	NBR	120/-60	Yes	2	3	3	2
	108	302912	Grey	NBR	120/-60	Yes	2	3	3	2
Cone	76/50	3305	Black	EPDM	140/-60	Yes	2	1	2	4
	108/76	3306	Black	EPDM	140/-60	Yes	2	1	2	4
	108/102	3307	Black	EPDM	140/-60	Yes	2	1	2	4
	159/108	3308	Black	EPDM	140/-60	Yes	2	1	2	4
Joint	50	3077	Black	EPDM	140/-60	Yes	2	1	2	4
	76	3007	Black	EPDM	140/-60	Yes	2	1	2	4
	108	3031	Black	EPDM	140/-60	Yes	2	1	2	4
	159	3045	Black	EPDM	140/-60	Yes	2	1	2	4
Joint	50	3271	Grey	NBR	120/-60	Yes	2	3	3	2
	76	3272	Grey	NBR	120/-60	Yes	2	3	3	2
	108	3273	Grey	NBR	120/-60	Yes	2	3	3	2
	159	3274	Grey	NBR	120/-60	Yes	2	3	3	2

*Antistatic is defined as having a conductivity of < 10⁶ Ω

Scale: 1 Excellent 2 Good 3 Limited 4 Poor

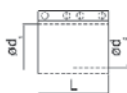
Abrasion Resistant Bend

Abrasion Resistant Bend 90°



Part No	Desc.	Ø d (mm)	r (mm)	B (mm)	t (mm)	m (kg)
3235	Ø 76	89	175	50	8	5.0
3234	Ø 108	121	250	50	8	10.6

Joint Abrasion Resistant Bend



Part No	Desc.	Ø d ₁ (mm)	Ø d ₂ (mm)	L	m (kg)
3243	Ø 76	98	76	130	0.50
3244	Ø 108	130	108	130	0.70

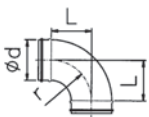
Reinforced Spiro Tubing

Spiro Tubing



Part No/m	d (mm)	A (m ²)	t (mm)	L (mm)	m (kg/m)
3013	100	0.008	0.6	3	1.8
3123	125	0.012	0.6	3	2.2
3042	160	0.020	0.8	3	3.7
3095	200	0.031	0.8	3	4.7
3090	250	0.049	0.8	3	5.9

Bend 90°



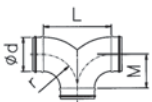
Part No	d (mm)	L (mm)	r (mm)	m (kg)
3014	100	100	100	0.4
3124	125	125	125	0.6
3043	160	160	160	0.8
3096	200	200	200	1.5
3091	250	250	250	2.4

Bend 45° Spiro

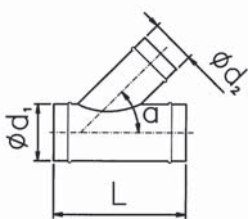
Part No	d (mm)	L (mm)	r (mm)	m (kg)
3086	100	43	100	0.3
3125	125	52	125	0.4
3089	160	66	160	0.6
3088	200	83	200	0.9
3087	250	104	250	1.3

Bend 30°

Part No	d (mm)	L (mm)	r (mm)	m (kg)
3024	100	28	100	0.3
3126	125	33	125	0.3
3025	160	43	160	0.5
3026	200	54	200	0.7
3027	250	67	250	1.4

Y-pipe

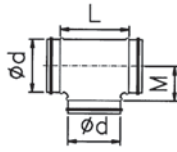
Part No	d (mm)	L (mm)	M (mm)	r (mm)	m (kg)
3127	125	375	190	190	1.5
3128	160	480	240	240	2.5
3129	200	600	300	300	3.8
3130	250	750	375	375	8.6

Branch Pipe

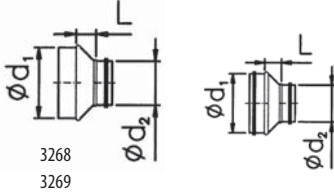
Part No	Desc.	d_1 (mm)	d_2 (mm)	L (mm)	a (°)	m (kg)
3131	100/100	100	100	290	45	1.3
3132	125/100	125	100	290	45	1.4
3148	125/125	125	125	290	45	1.6
3133	160/100	160	100	370	45	1.6
3134	160/125	160	125	370	45	1.9
3149	160/160	160	160	370	45	2.5
3135	200/100	200	100	460	45	2.2
3136	200/125	200	125	460	45	2.3
3137	200/160	200	160	460	45	2.9
3150	200/200	200	200	460	45	3.5
3138	250/160	250	160	575	45	3.4
3139	250/200	250	200	575	45	4.0
3151	250/250	250	250	575	45	4.6



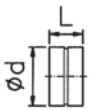
T-pipe



Cone



Socket



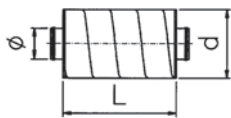
Nipple



Clean out Cover



Inline Silencer



Part No	Bet	Ø d (mm)	L (mm)	M (mm)	m(kg)
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3051	Ø 160	160	229	105	0.91
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Part No	d ₁ (mm)	d ₂ (mm)	L (mm)	m (kg)
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3054	100	80	18	0.2
3141	125	100	22	0.2
3157	125	110	48	0.3
3028	160	100	37	0.3
3142	160	125	26	0.2
3098	200	160	26	0.3
3093	250	200	32	0.6
3122	250	160	53	0.5
3268	250	160	113	0.6
3269	250	200	92	0.6

Part No	d (mm)	L (mm)	m (kg)
---------	--------	--------	--------

3055	100	90	0.1
3143	125	90	0.2
3056	160	90	0.2
3082	200	90	0.3
3083	250	130	0.5

Part No	d (mm)	m (kg)
---------	--------	--------

3015	100	0.1
3144	125	0.2
3044	160	0.2
3099	200	0.3
3094	250	0.5

Part No	Ø d (mm)	L (mm)	m (kg)
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3152	100	40	0.1
3153	125	40	0.1
3154	160	40	0.2
3155	200	40	0.3
3156	250	40	0.5

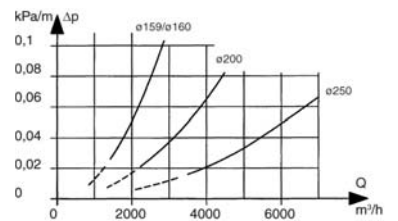
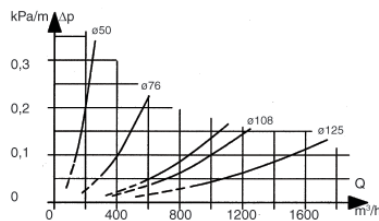
Part No	Ø (mm)	L (mm)	d (mm)	m (kg)
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3182	160	1200	355	19.8
3183	160	600	355	10.7
3184	160	600	260	6.3
3228	125	300	224	3.0
4476	100	600	200	4.8
4942	100	300	200	2.6
3195	80	300	180	2.2

TECHNICAL DATA Silencers
Absorption dB for mean frequency Hz

Part No.	125	250	500	1k	2k	4k	8k
3182	10	18	34	49	53	30	18
3183	8	15	23	31	40	22	16
3184	4	8	21	37	40	22	14
3195	4	8	16	27	34	35	19
3228	2	7	14	21	26	20	12
4476	8	13	25	40	50	40	21
4942	4	8	14	23	27	25	14

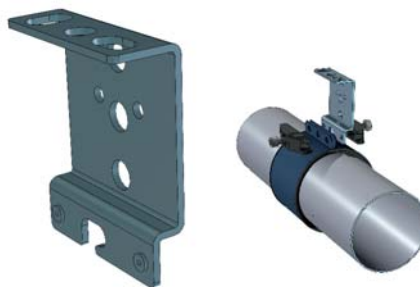
Pressure Loss Tubing



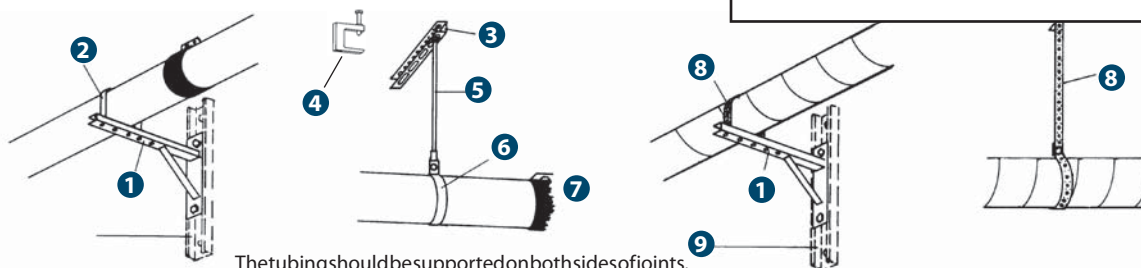
Fixing Hardware

1 Bracket		Part No	Desc.	L (mm)	t (mm)	m (kg)		
		3008	300	300	3	0.85		
		3037	500	500	3	1.5		
		3178	1000	1000	3	3.0		
2 Clamping Band		Part No	Desc.	d (mm)	L (mm)	m (kg)		
		3107	50	51	140	0.10		
		3021	76	76	210	0.10		
		3022	110	108	290	0.10		
		3023	160	159	425	0.15		
		3108	200	200	530	0.20		
		3109	250	250	660	0.25		
3 Wall- and Ceiling attachment		Part No	Desc.	L (mm)	t (mm)	m (kg)		
		3106	270	270	3	0.40		
		9622	2000	2000	3	3		
4 Beam Clamp		Part No	Desc.	M				
		3192	M8	M8				
		3251	M10	M10				
5 Threaded Rod		Part No	Desc.	L (mm)	M	m (kg/m)		
		3017	HGS8	2000	M8	0.35		
		3250	M10	1000	M10	0.50		
6 Clamping Wrapper		* 5 st	Part No*	d (mm)	B (mm)	t (mm)	m (kg)	
			3185	50	20	1.25	0.10	
			3186	76	20	2.0	0.15	
			3187	110	25	2.0	0.25	
			3188	160	25	3.0	0.40	
			3189	200	25	3.0	0.55	
			3190	250	25	3.0	0.75	
			Part No	d (mm)	B (mm)	t (mm)		
			3245	50	24	1.5		
			3246	76	24	1.5		
7 Tube Hanger EPDM Rubber Lined		Part No	L (mm)	b (mm)	t (mm)	m (kg/m)		
		3284	101	24	2.0			
		3247	108	24	1.5			
		3248	160	24	2.0			
		3285	125	24	2.0			
		3249	200	24	3.0			
		3286	245	30	3.0			
			Part No	L (m)	b (mm)	t (mm)	m (kg/m)	
	3158	25	25	1	0.15			
9 Adjusting Track		Part No	L (mm)	b (mm)	h (mm)			
		3159	300	41	21			
		3241	2000	41	21	perforated		
		3252	3000	41	21	perforated		
10 Plate		Part No	a(mm)	b(mm)	t(mm)			
		3253	52.6	45.5	5.0			
11 Spring Nut		Part No	M					
		9601	M8					
		3203	M10					
Two Part Clamp		Part No	d					
		3068	ø 160					
		3069	ø 200					
Z Attachment		Part No						
L Attachment		Part No						
Tie-Wrap, Nylon		Part No	L (mm)					
		9817	136					
		9815	360					
Duct Tape, Roll		Part No	L (m)					
		9076	50					
Fastener Set for Mounting		Part No						
		3198						

New Wall- and Ceiling Attachment!



Wall- and Ceiling attachment Part No 42437



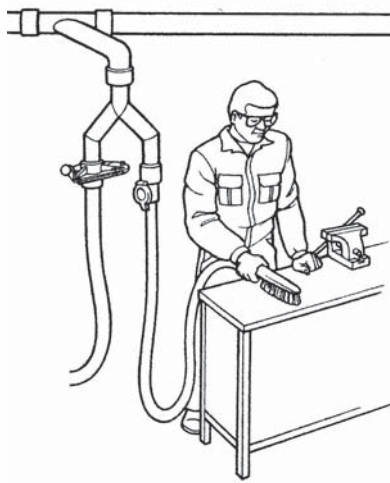
The tubing should be supported on both sides of joints.

Work Station Equipment

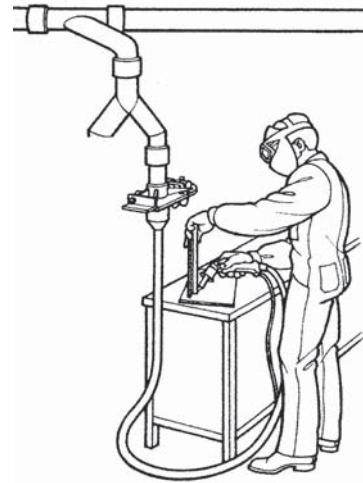
An extraction system is sized for only those outlets which are to be used simultaneously. This is in order to maximize efficiency and minimize the size of the central unit. It must be possible to open and close all outlets. This could be via manual shutter and flap valves or automatically on demand. The Flexpipe can be used for fume extraction, high flexibility and small diameter allow it to be placed very close to the fume source.

Overhead suspension arrangements such as swing-arms and hose reels can increase the usefulness of the system, increase ergonomics and minimise potential trip hazards from hose left on the floor. When large volumes of material are to be introduced into the system, stainless floor funnels can be used from which the material is then extracted.

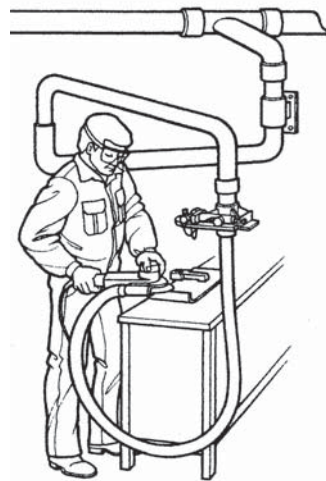
Manual



Automatic










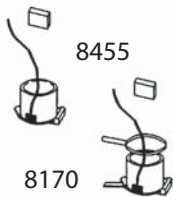
Fume Arms and Suspension Arrangements



Flap Valves

For removable connection of the suction hose to the tubing system. The spring loaded flap is opened manually and the hose cuff is inserted into the valve body. On systems with on demand start-stop, the flap valve should be equipped with a micro-switch. This will give a start-stop signal for vacuum producer control.

d_{max}/D	A		Microswitch	Part No
38/50 mm	X38		No	3232
38/50 mm	X38		Yes	8454
50/50 mm	X50		No	3070
50/50 mm	X50		Yes	8433
50/76 mm	X50		No	3006
50/76 mm	X50		Yes	8272
76/76 mm	X76		No	3237



Flap Valves with micro-switch and attached lead

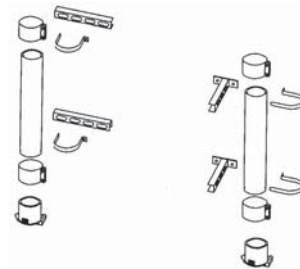
Part No 8455 Flap valve 50/76 (X50 connection) with micro-switch c/w 3 m lead and terminal box.

Part No 8170 Flap Valve 50/76 (X50 connection) with micro-switch c/w 3 m lead and terminal box.



Flapvalve50/76withmicroswitch

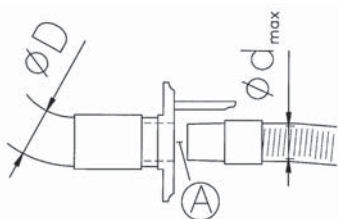
Installation Examples



Walloutletsareavailablewithtwofinishes; peened aluminum or white enamel.

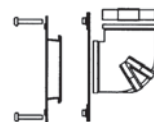
Wall Outlets

For removable connection of the suction hose. The suction hose must be equipped with a connecting sleeve. Installed in the wall with an installation kit, these provide a finished, flush mounted outlet valve. The valve body with spring loaded flap is installed after the wall is finished. On systems with on demand start-stop, the wall outlet should be equipped with a micro-switch. This will give a start-stop signal for vacuum producer control.

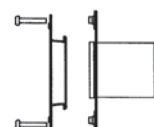


d_{max}/D	A	Control	Finish	Part No
38/50 mm	X38	---	peened aluminum	3230
38/50 mm	X38	micro-switch	peened aluminum	8439
38/50 mm	X38	---	white enamel	3231
38/50 mm	X38	micro-switch	white enamel	8453

Accessories

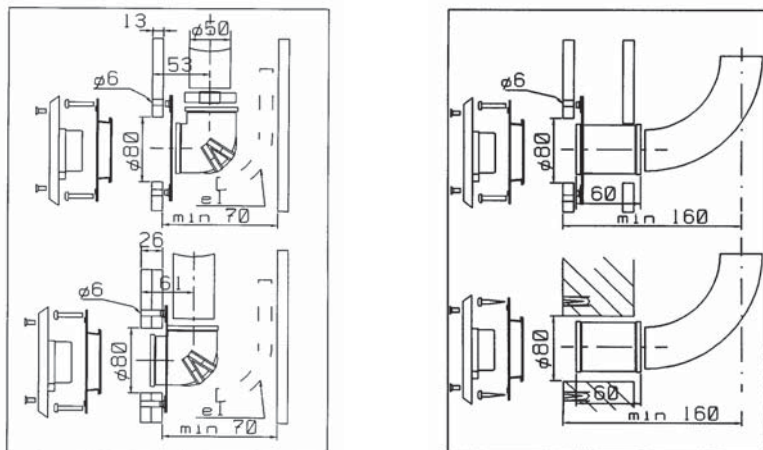


Part No 3218 Installation set with 90° joint



Part No 3219 Installation set with straight joint

Dimensions, Installation



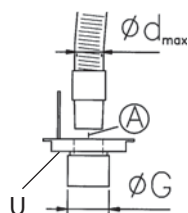
Wall and Floor Outlet

The outlet can be used in "clean room environments". For removable connection of the suction hose. The spring loaded cover is flush with the floor and can be opened with a special tool, see below.

The floor outlet's connection to the tubing system is a standard NPT 2 1/2"/3" thread. Connection is prepared then screwed in when the floor covering is installed.

The floor valves must be installed so that the tubing system carries the stress or so that the valve's body (A) is installed on a level sub-surface.

Floor outlets can be specially ordered with micro-switches.

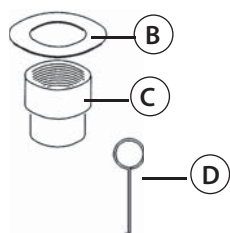


d _{max} /G	A	Cover	Part No
50mm/G21/2	X50	stainless steel	3239
76mm/G3	X76	stainless steel	3238



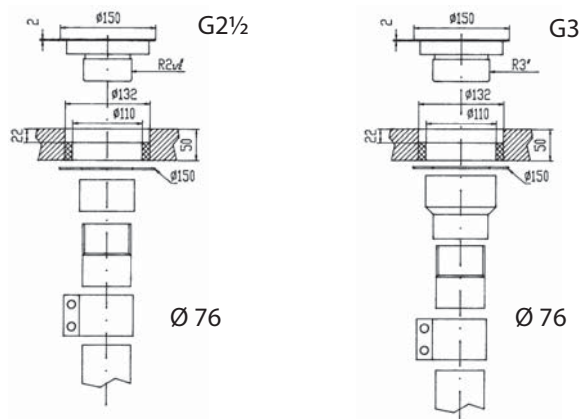
Floor outlets are available with stainless steel or brass covers.

Accessories



Valve dim.	Part No		
	B	C	D
G21/2	40378	7443+7428	40201
G3	40377	7442+7428	40201

TECHNICAL DATA	Part No	Max point load	Max total load
	3238	180 kg	360 kg
	3239	180 kg	360 kg



Wall and floor outlet , clean rooms X38/50

The wall and floor outlet is designed to meet the demands of the clean room industry. The valve body is antistatic and made of prestressed polypropylene. The other parts are made of stainless steel.

The outlet is made for both wall and floor mounting.

It is possible to replace the cover, the plate and the spring without replacing the valve body.

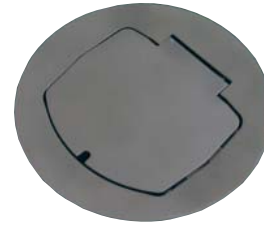
Shallow fixings even for very thin walls.

Outlet with sensor is used to start the system.

Choose cleaning accessories \varnothing 32 or 38 mm.

Part No **322501**

Part No **84059** with sensor

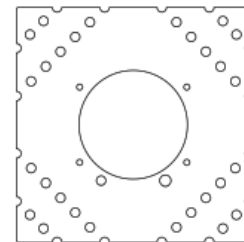


Accessories	Description	PartNo
	Plate	42254
	Joint 90°	2043
	Straight joint	2044
	Anchor plate	42264
	Connector cleanroom 38 outlet	42292
	O-ring 49,5 * 3 shore 50 nitril	40451

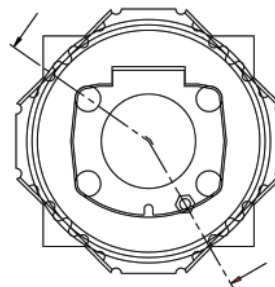
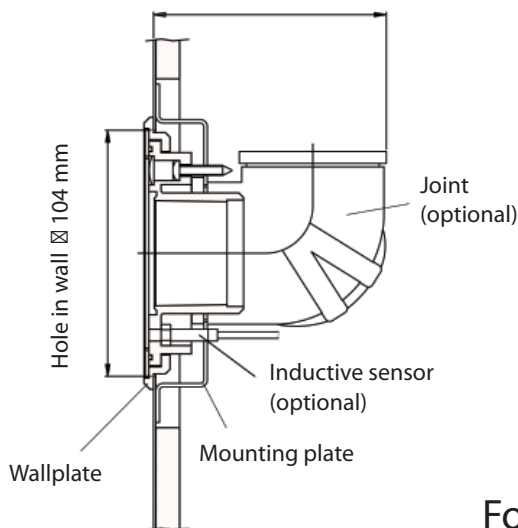
Accessories

Plate	42254
Joint 90°	2043
Straight joint	2044
Anchor plate	42264
Connector cleanroom outlet 38	42292
O-ring 49,5 * 3 shore 50 nitril	40451

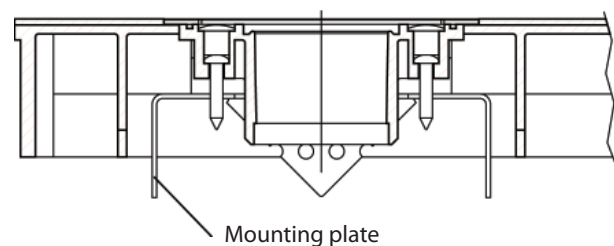
Mounting plate



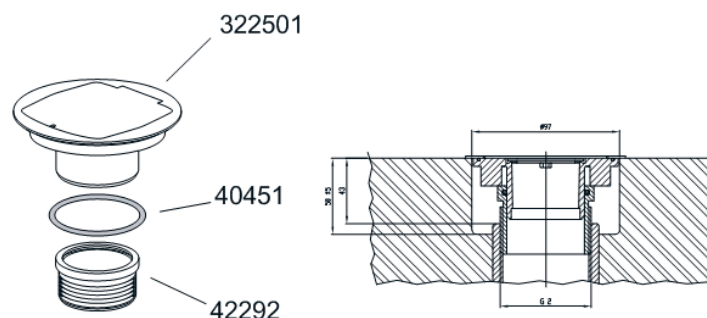
Wall mounting



Floor mounting



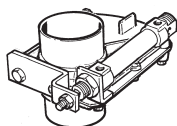
For concrete floor



Manual Shutter Valves

Manual shutter valves are used for stationary machine connection or in cases where a permanent hose connection is desired. By pulling the handle the valve opens.

On systems with on demand start-stop, the shutter valve should be equipped with a micro-switch. This will give a start-stop signal for vacuum producer control.



Part No 8456
Manual Shutter Valve Ø 50 with micro-switch and attached lead

D	Control	Part No
Ø 50 mm	---	805201
Ø 50 mm	micro-switch	809101
Ø 76 mm	---	804300
Ø 76 mm	micro-switch	809200
Ø 108 mm	---	808300
Ø 160 mm	---	8254
Ø 200 mm*/	---	8017
Ø 250 mm*/	---	8016

* / Note! Shutter Valve Ø 200 and Ø 250 only for clean air.

Shutter Valve Auto

The shutter valve has a stainless steel gate. The gate is driven by a pneumatic cylinder. For applications on work stations and in the tubing system.

With intermittent start-stop, a pressure switch is installed using a "T" fitting in the compressed air supply. This provides an electrical start-stop signal to the vacuum producer.



D	Part No
Ø 50 mm	805308
Ø 76 mm	804408
Ø 108 mm	808404
Ø 160 mm	825404
Ø 200 mm*/	807500
Ø 250 mm*/	807800

* / Note! Shutter Valve ø200 and ø250 only for clean air and to single step fans (10 kPa max).

Solenoid Valve Part No.	V
8088	24 V AC
8054	230 V
8026	24 V DC

Electrical Shutter Valve

When a shutter needs to be electrically controlled, use an automatic shutter valve, as above, in combination with a solenoid valve as shown here.

Electrically driven shutter valves can be built for special applications. Note that the speed of the gate will be much slower for an electrical shutter than for a standard shutter.

	V	Part No
76 EL	230	804411
108 EL	230	808407
160 EL	230	825407

Accessories Shutter Valve Auto and El



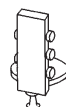
Installed on pneumatic cylinders to supply electrical signals for start-stop control of vacuum producer. Gives signal when valve is opened.

Part No 8047 Pressure Switch



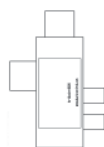
Required for installation of the 8047 Pressure Switch.

Part No 8152 T Fitting



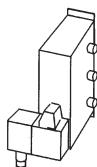
For manual actuation of auto shutters.

Part No 8040 Manual Switch



Actuates an auto shutter when installed in compressed air supply to a pneumatic tool. Controls on demand extraction. 8020 should be supported by compressed air according to PNEUROP 6611 CLASS 3.

Part No 8020 Flow Valve

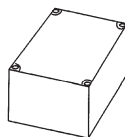


A separate solenoid is used for example, on stationary machines and in connection with a manual switch. The solenoid is connected pneumatically to the auto shutter. Generally installed in control panel of the subject machine.

Part No 8026 Solenoid 24 VDC

Part No 8054 Solenoid 230 VAC

Part No 8088 Solenoid 24 VAC 50/60 Hz



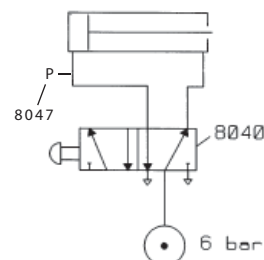
Auto-start control is used for on demand extraction for electric tools (max 8 amps on subject tool). The auto-start current sensor closes a relay to give solenoid actuation of an auto shutter.

Part No 8196 Auto-start 230 vac

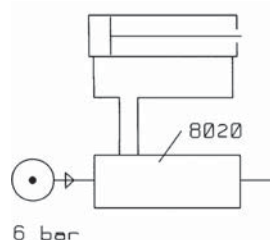
Cont Accessories next page

Connection Schematic

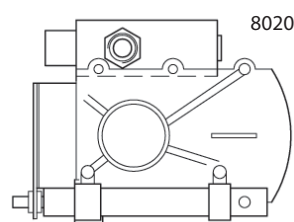
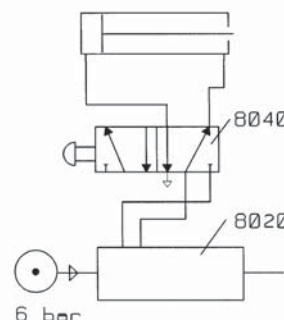
Manual, intermittent start/stop



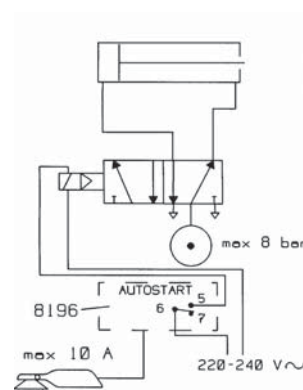
Pneumatic Tool



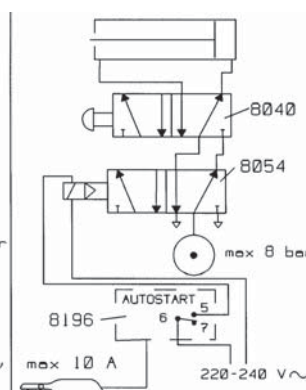
Pneumatic Tool + man



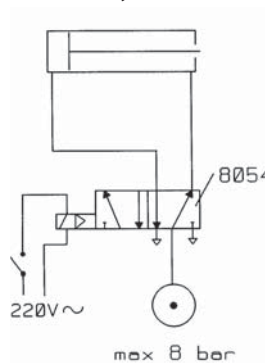
Electric Tool



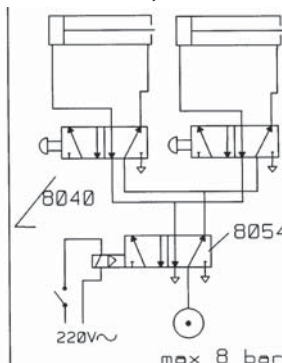
Electric Tool + man



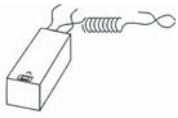
Stationary Machine



Stationary Machine, 2



Accessories Shutter Valve Auto and El Connection Schematic



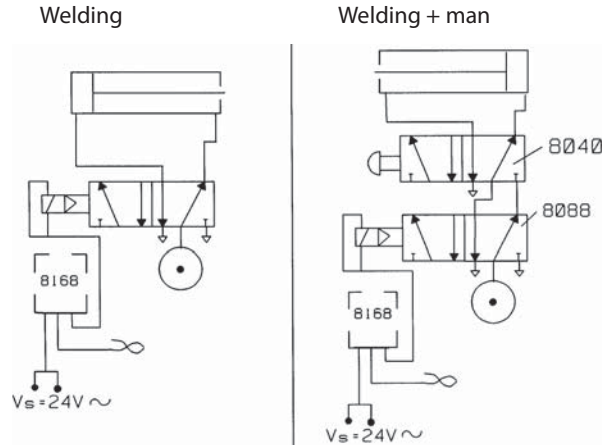
Used for automatic control of extraction in induction welding applications. Striking an arc will cause the current sensor to close a relay. In turn the relay causes solenoid actuation of an auto shutter. This control must be supplied with 24 V AC, 0,5 A.

Part No 8168 *Welding Auto-start with current sensor*

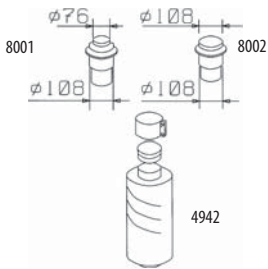


Supply transformer for 8168 Welding Auto-start

Part No 8029 *Transformer 230/24 V AC 4 A*



Vacuum Relief Valve



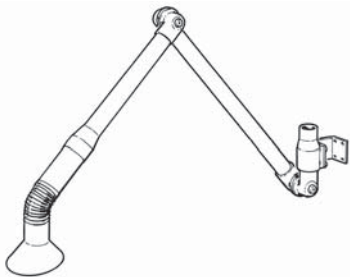
The vacuum relief valve bleeds in air at the pre-set relief level and can be installed at the outermost point on a tubing system. The valve will introduce transport air into the system when the pressure in the system exceeds the setting of the vacuum relief valve.

Part No 8001 *Vacuum Relief Valve ø76*
Part No 8002 *Vacuum Relief Valve ø108*

Accessories

Part No 4942 *Silencer Ø 100 300/200*

Fume Extraction Arm



Extraction arm for welding fume etc. This articulated arm is easily adjusted to the correct working position. The hood is equipped with a 24 V 50 W halogen work lamp and dual switches for lamp and Shutter Valve El control. The 76 mm Extraction arm should always be installed with 1 m of 76 mm hose between the arm and tubing system.

ø76 Part No 590102

TECHNICAL DATA

Q_{nom}

Δp_{nom}

Ø76

400 m³/h

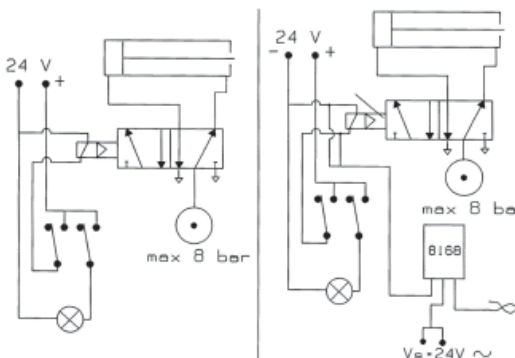
3 kPa

In high pressure systems, the extraction arms may require a restrictive plate to compensate pressure for suitable air flow.

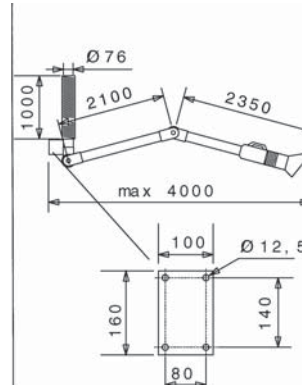
Connection Schematic Extraction Arms

Man

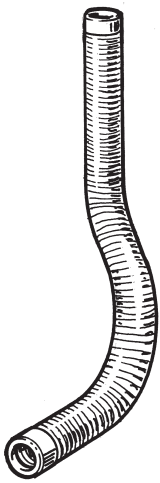
Auto



Dimensions, Extraction Arm



Flexpipe



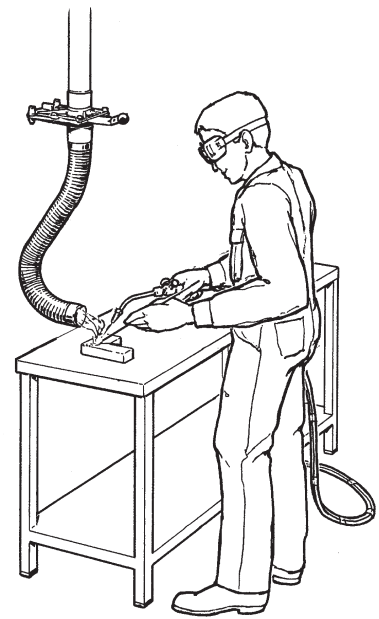
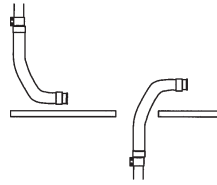
Dustcontrol's Flexpipe is a type of extraction arm for source extraction of welding fume, chemical vapors, wood dust, etc.

The flexpipe is a flexible hose that can be placed in practically any orientation desired. Diameter of the Flexpipe is small and it can be used very close to the source without disturbing the work. Extraction is very effective.

The Flexpipe cannot be equipped with a hood or any other equipment at the free end.

Part No	Ø	L
7330	50	700
7308	50	1000
7331	76	700
7332	76	1000

Mounting alternatives



TECHNICAL DATA

	7330	7308	7331	7332
Inner Diameter	ø 50	ø 50	ø 76	ø 76
Tubing System				
Connection	joint ø 50	joint ø 50	joint ø 76	joint ø 76
Length	700 mm	1 m	700 mm	1 m
Air Flow	80–200 m ³ /h	80–200 m ³ /h	200–450 m ³ /h	200–450 m ³ /h

Swingarm for Flexpipe

The Flexpipe reach can be increased with swingarm installation.

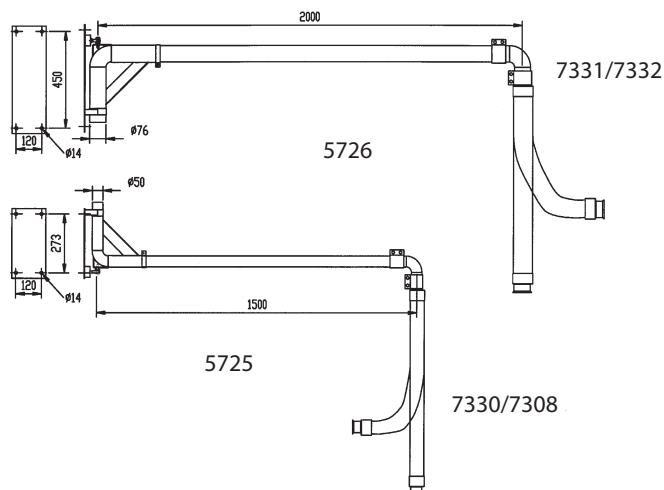
The swingarm length is easily adjusted by either cutting the horizontal tube or by replacing it with a longer tube from the standard tubing system, max. 3 m for Ø 50 and max. 4 m for Ø 76.

The swingarm may be equipped with suction hose but should not be loaded with any more than the weight of the hose itself.

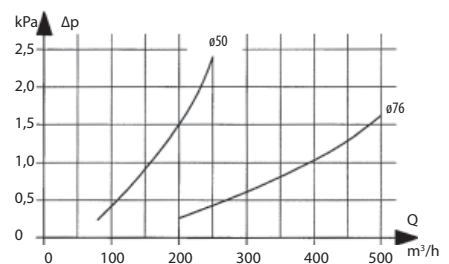
Ø 50 Part No 5725

Ø 76 Part No 5726

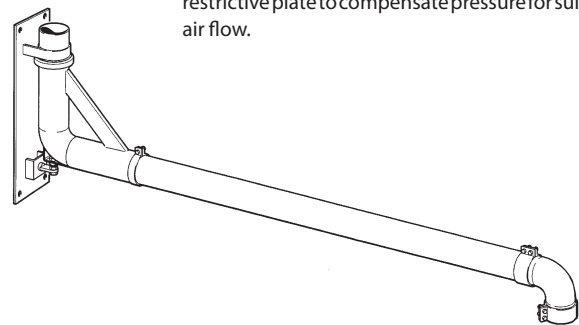
Dimensions



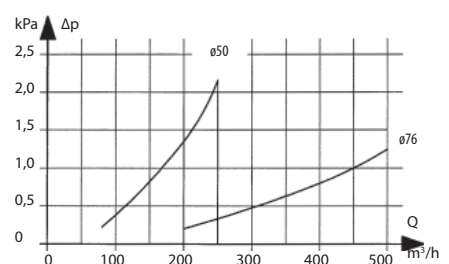
Pressure Loss Flexpipe



In high pressure systems, the flexpipe may require a restrictive plate to compensate pressure for suitable air flow.



Pressure Loss Swingarm



Swingarm

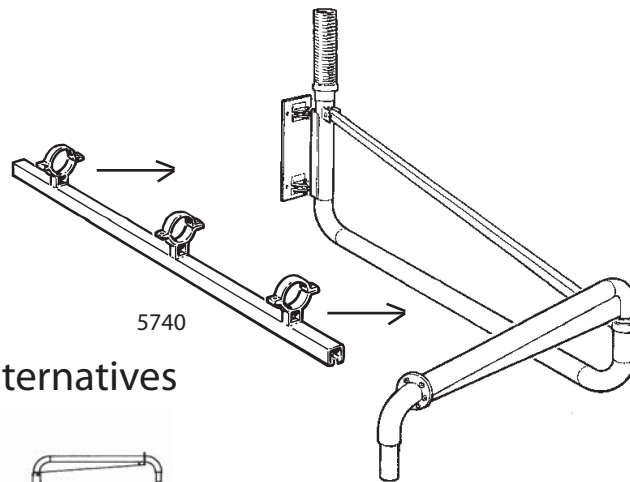
Swingarms are used to increase the working envelope without increasing hose lengths. Optionally, tools can be suspended from the swingarm.

- Part No 5720 2.5 m
- Part No 5721 3.5 m
- Part No 5722 4.5 m
- Part No 5723 6 m
- Part No 5724 8 m

Accessories

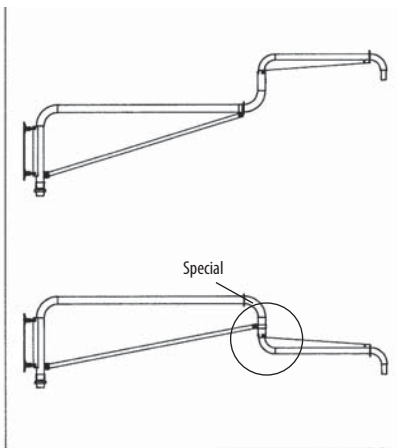
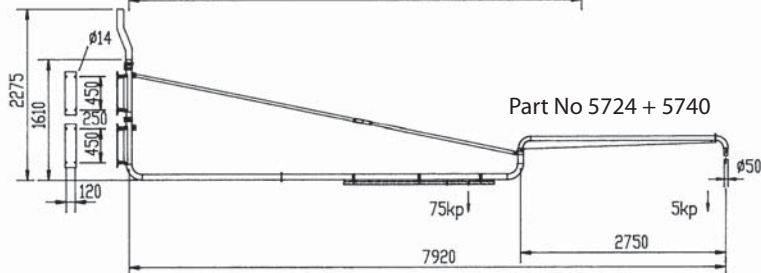
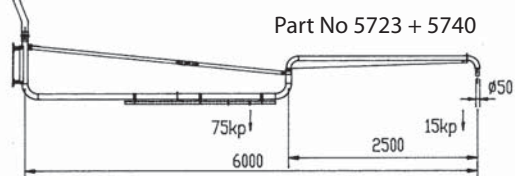
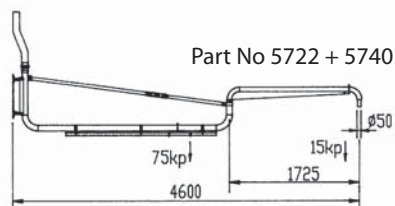
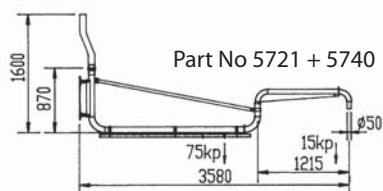
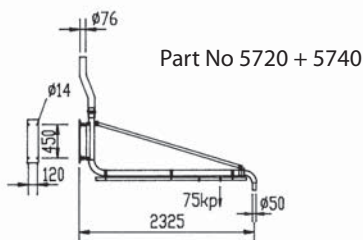
The suspension track is installed on the inner link of the swingarm.

Part No 5740 Linear Suspension Track

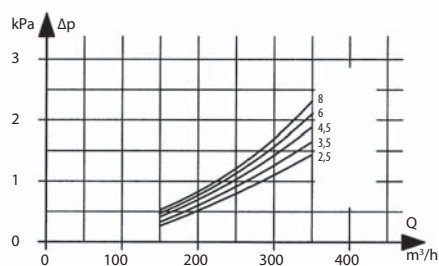


Dimensions

Mounting Alternatives



Pressure Loss Swingarm



Hose Reel

The Dustcontrol hose reel for 38 mm hose can be used with all available 38 mm accessories.

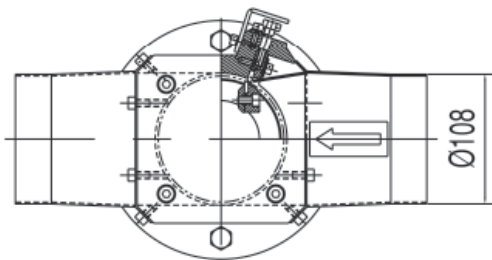
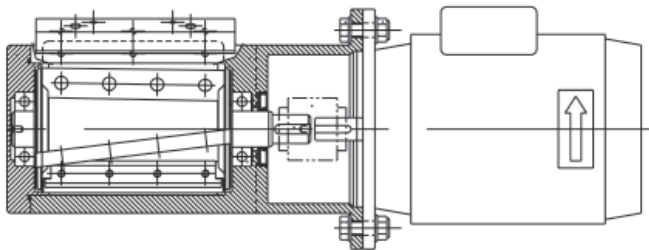
The hose reel mechanism is equipped with a latch mechanism allowing the user to take out as much hose as required and then retracting it onto the reel for storage. Vacuum through the reel is controlled by a combination of pneumatic switch and automatic shutter valve. The tubing system opens automatically when the hose is withdrawn from the reel.

The hose reel is supplied with an articulating mounting bracket.

Part No 7305 Hose Reel 38 mm, complete

TECHNICAL DATA

Hose length	7.5 m
Connection diameter	Ø 50
Compressed air supply	min 5 bar (75 psi)



Cutter 108

Cutter 108 has been developed for cutting plastic, paper and cardboardstrips and similar materials. The unit is connected to a f108 tubing system and will cut all material in the transport flow into 2–15 cm sized pieces. A rotor with three knives work against one stationary knife.

The knives should be serviced at least twice a year at normal operation 8 hours a day. Depending on amount and type of material the knives should be sharpened and adjusted (500–5000 operation hours).

The tubing system before and after the Cutter should consist of straight pipes. Because of safety reasons the inlet and outlet pipes should each be at least one metre long. At installation and service the safety considerations should always be followed.

Part No 7357

Exchange rotor Cutter 108 Part No 40677

TECHNICAL DATA

Weight	19 kg	
In-/outlet	Ø108	
Motor power	0.75 kW	
Rotation speed	50 Hz 2800 rpm	60 Hz 3400 rpm
Voltage	220–240/ 360–415	254–277/ 440–480



Control System

The control system is used for the starting and stopping of the vacuum producer, turbo pump or high pressure fan. They also control filter cleaning and give condition indications. In the system control panels, additional functions can be built in by selecting options. Control systems must be installed by a certified electrician.

The control panels conform to electrical protection class IP 54 (IC529). Manufacturing standards conform to EN60204 (IEC204-1), VDE0113A2/381, DIN 57113A2.

Main fuses and working disconnects are not included in the control panels.

System Control Panel

Select configuration of system control panel by optional additional digits.

Example

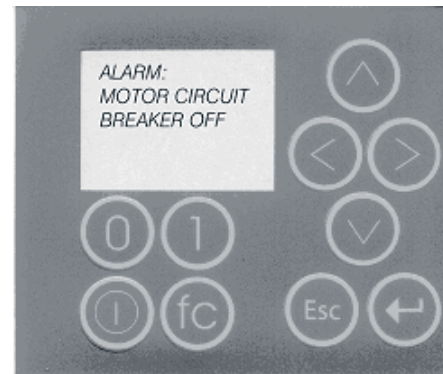
System Control Panel	86	
Standard (IP54, painted cabinet)	861	
1 pump	8611	
18.5 kW	86119	
400 V, 50 Hz	861196	
Solenoid valves 24 V AC	861196	1
Filter cleaning S 32000: After stop and man	861196	15
Airlock control 160	861196	151
Clean out/Flush valves 2 pcs.	861196	1512
Electronic clock/External signal: No	861196	15120
Lighting + power point 230V 6A in cabinet	861196	151202

System control panels are always delivered with

- Main switch
- All condition indications and manoeuvres on display at front
- PLC-control
- Motor circuit breaker
- Function for start and stop of pump/fan with soft start
- Pulse control for filter cleaning
- Start from external signal, prepared for intermittent run (10 min stop delay)
- Manual start on display
- Timers for filter cleaning and intermittent run can be altered on display
- Connection of thermal protection (pumps of 11 kW and more)
- Condition indications and alarms on display
- Start on demand for lag pumps/fans (panels for 2 and 3 vacuum producers)
- Signal for shutter valve shutting at start (fans)

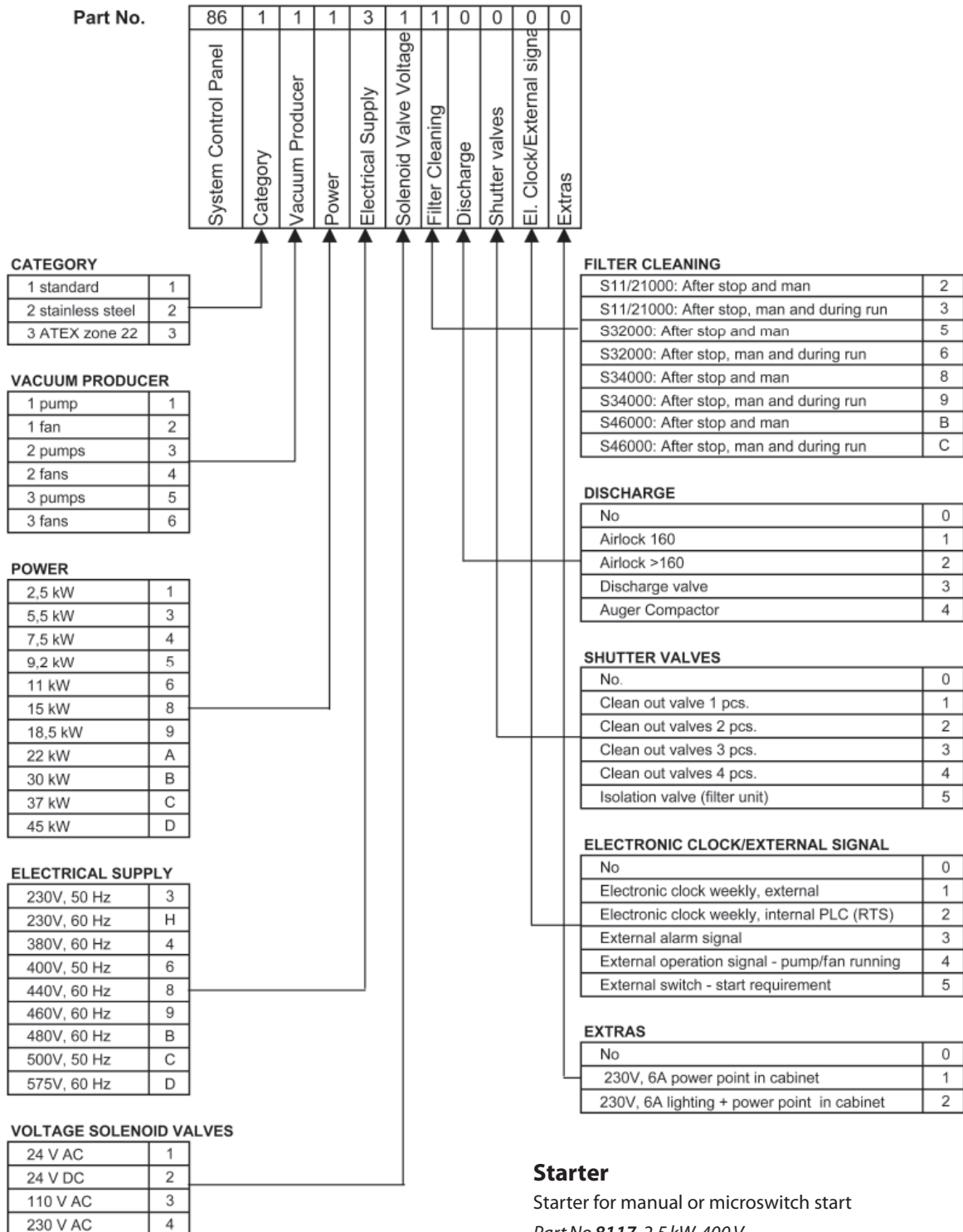
Dimensions (base configuration)

Measure	Height	Width	Depth
1 pump/fan 2.5–11 kW	600	380	210
1 pump/fan 15–22 kW	700	500	250
1 pump/fan 30–37 kW	800	600	250
2 pump/fan 2.5–11 kW	800	600	250
2 pump/fan 15–22 kW	760	760	300
2 pump/fan 30–37 kW	1000	800	300
3 pump/fan 2.5–11 kW	1000	800	300
3 pump/fan 15–22 kW	1200	800	300
3 pump/fan 30–37 kW	1200	1000	300



All condition indications and manoeuvres on display at front of system control cabinet.

Control System



Starter

Starter for manual or microswitch start

Part No 8117, 2.5 kW, 400 V

Part No 8118, 2.5 kW, 230 V

Part No 8132 Starter for microswitch or manual start and fuction for automatic filter cleaning.



Capture the dust at the source

The suction casing is the key to a functioning source extraction system, it must be light weight and well designed while at the same time effective at capturing the dust.

Dustcontrol's suction case packages are equipped with clamping rings and spacers in order to be able to fit the suction casings to different types of power tools.

TECHNICAL DATA	Con.	Q _{nom}	Δp _{nom}
Small hand-held tools	ø32 mm	150 m ³ /h	3.5 kPa
Hand-held tools	ø38 mm	200 m ³ /h	3.5 kPa
Large hand-held tools e.g. 9" depressed centre disc	ø38 mm	250 m ³ /h	5.0 kPa

Suction casing package for Depressed Centre Discs, Cutting Discs and Diamond Cutting Discs (N,K):

1

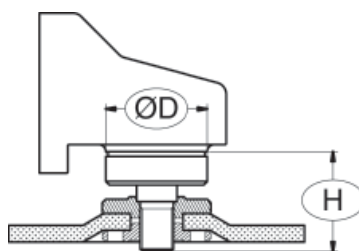
Measure the size of the disc.



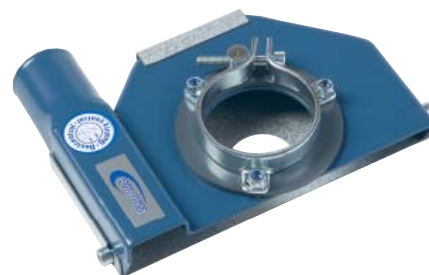
Note: The disc has to be thinner than 18 mm.

2

Measure the neck of the machine - ØD and the height of the machine - H.



3



Size of the disc	Ø D (mm)	H (mm)	Hose connection, Ø (mm)	Part No
4 1/2" (115 mm)	40-49	31-46	32	6676
5" (125 mm)	40-45	31-46	32	6677**
5" (125 mm)	46-53	31-46	32	6678
7" (175 mm)	62-65 & 74-77	31-51	38	6679
9"*	112	37	38	6221*
9"	68	51	38	6202*
9"	74	54	38	6302*
9"	74	37	38	6349*
9"	50	47	38	6500*
9"	62	54	38	6416*
9"	62	50	38	6438*
9"	62	48	38	6555*
9"	65	40	38	6842*
9"	64	52	38	6427*
	58	54	38	6537*

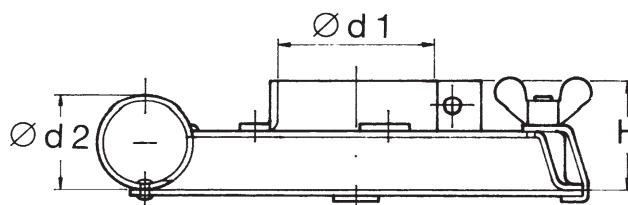
Model specific suction casings

Model	Size of the disc	H (mm)	Hose connection, Ø (mm)	Part No
Atlas Copco GTG 40 F066-23	9"	41	38	6805*
Georges Renault KL 365	9"	59	38	6388*

*With the clamping rings welded on the suction casings.

**Some Hitachi machines have a Ø40 mm conical neck. With these it is necessary to buy an aluminium ring (Part No. 6270). When mounted on the machine this aluminium ring enlarges the ØD of the machine to 50 mm – therefore choose suction casing package 5" – Part No 6678.

Connection Ø



Suction casing package for Diamond Cup Grinding Discs (D):

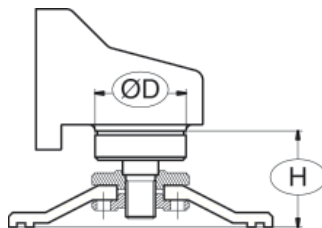
1

Measure the size of the disc.



2

Measure the neck of the machine - $\varnothing D$ and the height of the machine - H.



3



Size of the disc	$\varnothing D$ (mm)	H (mm)	Hose connection, \varnothing (mm)	Part No
4 1/2" (115 mm)	40-49	49-54	32	6681
5" (125 mm)	40-49	49-70	32	6682
5" (125 mm)	50	38-61	32	6673
7" (175 mm)	54-61	63-72	38	6683
7" (175 mm)	62-65 & 74-77	63-86	38	6684

Suction casing package for Sanding Discs (F):

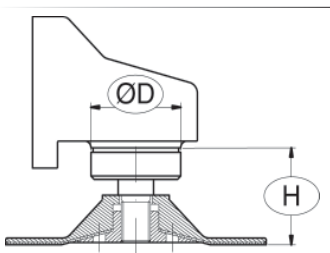
1

Measure the size of the disc.



2

Measure the neck of the machine - ØD and the height of the machine - H.

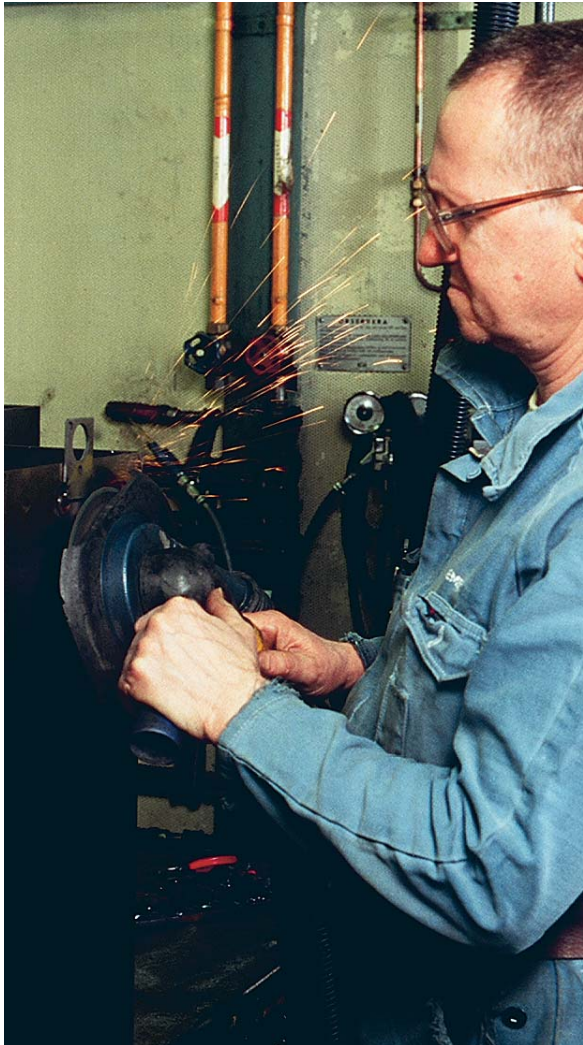


3



Size of the disc	Ø D (mm)	H (mm)	Part No	Connection Ø (mm)
1½–3" (38–75 mm)	27	*	6833*	32
4" (100 mm)	40–49	39–44	6670	32
4½" (115 mm)	40–49	39–48	6671	32
5" (125 mm)	40–49	39–48	6672	32
5" (125 mm)	50	38–61	6673	32
7" (175 mm)	54–61	50–59	6674	38
7" (175 mm)	62–65 & 74–77	50–73	6675	38

* Some Hitachi machines have a Ø40 mm conical neck. With these it is necessary to buy an aluminium ring (Part No 6270). When mounted on the machine this aluminium ring enlarges the ØD of the machine to 50 mm – therefore choose suction casing package 5" N, K – Part No 6678.



Suction casing package for Cup Grinding Wheels (S):

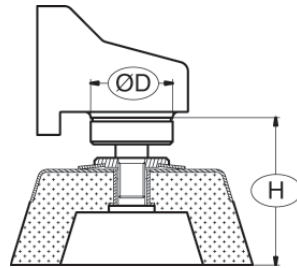
1

Measure the size of the disc.



2

Measure the neck of the machine - $\varnothing D$ and the height of the machine - H.



3



Size of the disc	$\varnothing D$ (mm)	H (mm)	Connection, \varnothing (mm)	Part No
5" (125 mm)	50-77	46-81	38	6680

Model specific suction casings

Model	Size of the disc	Connection, \varnothing (mm)	Part No
Bosch	6" (150 mm)	38	6023

Reciprocating drilling machine/Chisel hammer



6621



6622



6077



6078



Bellow to part no 6078, 6622 and 6621



6001

7033

Part No 6622 is perfect for small chisel hammers – and drilling machines.

Part No 6077 is perfect for small chisel hammers.



Suction casings B, H, M, L

Tool connection Ø D (mm)	Hose connection (mm)	Height (mm)	Part No
61	38	178	6078
48	38	158	6621
43	38	158	6622
32	32	112	6077
–	50	100	6001
Bellow to part no 6078, 6621, 6622			6130

Model specific suction casings

Model	Hose connection Ø D (mm)	Part No
Atlas Copco RRD 37/RRD 57	38	6229
Atlas Copco BBD 11/RRC73	38	6152

Tiger Saw

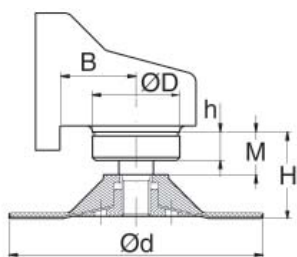
Suction casings C

Hose connection (mm) Part No Machine model

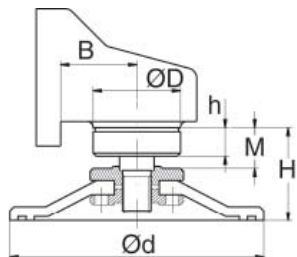
32	6290	Atlas Copco SSE 1000 X/SQ/, Milwaukee 65xx-xx (Sawzall)
32	6269	Milwaukee 6378



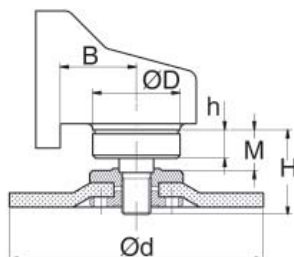
F
Sanding Disc



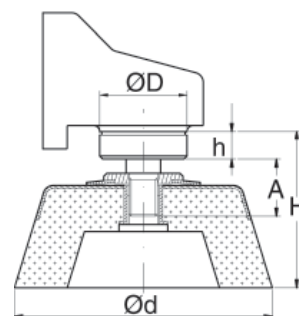
D
Diamond Cup Grinding Disc



S
Cup Grinding Wheel



N, K
Depressed Centre Disc, Cutting Disc
and Diamond Cutting Disc



Machine	Model						Type
	D	d	H	h	A	B	M

LEGEND

- F Sanding disc
- D Diamond cup grinding disc
- N Depressed centre disc
- K Cutting disc, diamond cutting disc
- S Cup grinding wheel

Information Fax Back Form

In this catalogue, we have included suction casings for the most common power tool types and manufacturers. If you do not find the suction casings here for your tool, send us the dimensions according to the table (diagram) below or call your local representative.

Message to:

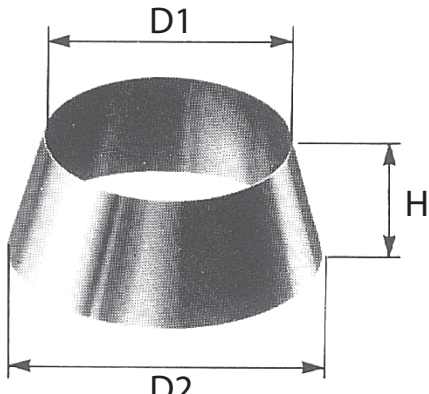
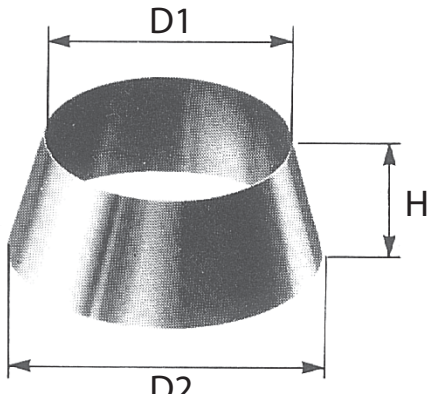
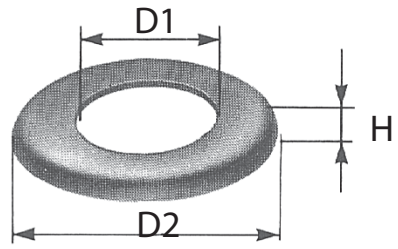
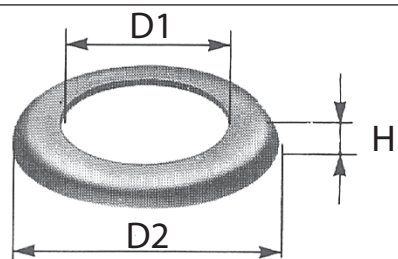
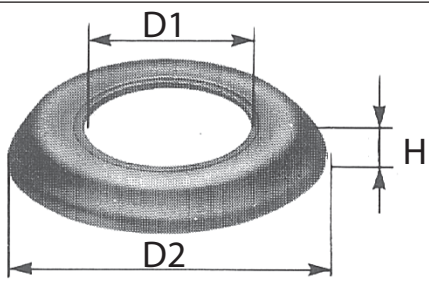
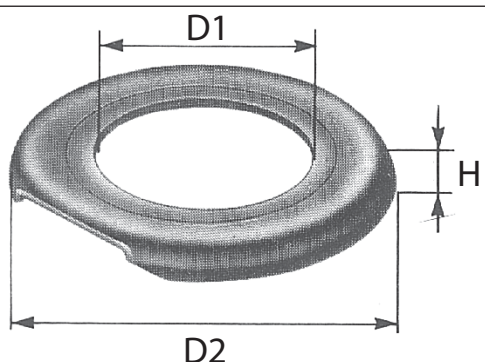
From :

This message contains page (s) in total

Please refer to the back page of this catalogue to find the telephone, fax number or e-mail address for either the distributor in your country or the Head Office in Sweden.

It is important that measurements should be taken as accurately as possible to avoid incorrect selections, e.g. with a Vernier Caliper.

Spare parts for suction casings

	Description	Dimension			Part no	
		D ₁ mm	D ₂ mm	H mm		
	Plastic ring for saucer grinder	5S	121	139	50	6003
		6S	147	164	50	6004
	Rubber collar for fibre disc (F)	1 ½ F	39	59	23	6314
		2 F	39	69	23	6313
		3 F	39	95	25	6312
		4 F	72	117	13	6182
		4 ½ F	72	135	13	6181
		4 ½ F	72	135	23	618100
5 F	72	145	13	6195		
	Rubber collar for fibre disc (F)	5 F	96	150	15	6006
	Rubber collar for osc. sanding machine	5 O	72	145	38	6212
		6 O	96	170	28	6180
	Rubber collar for fibre disc (F)	7 F	112	196	19	6002
		7 F	112	196	35	6034
		8 F	112	221	41	6211
		9 F	113	250	32	6039



Stationary suction casings

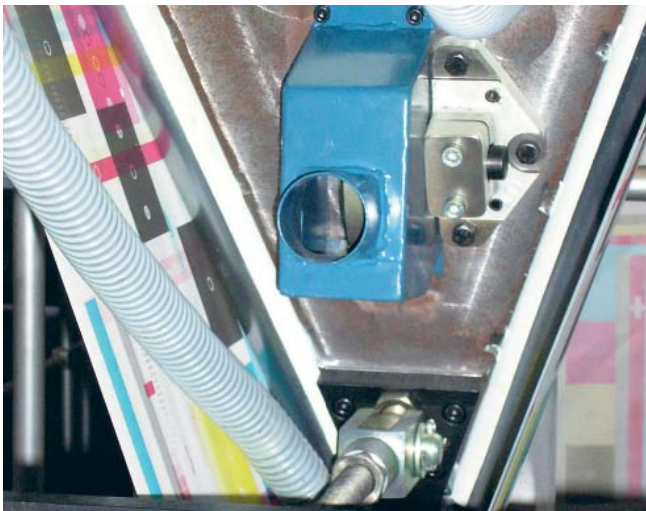
Dustcontrol can customise the suction casing according to your needs



Robot deburring for telecom parts.



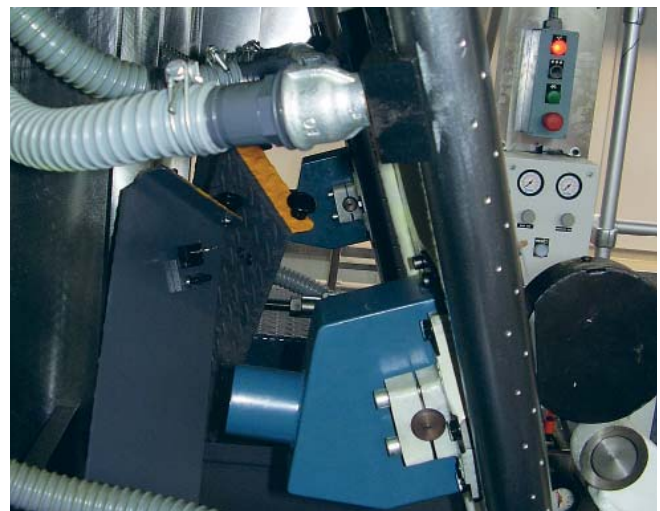
Food packaging industry.



Suction casing mounted on slitter knife in printing press.



Suction casing mounted on slitter knife in printing press.



Suction casing mounted on slitter knife in printing press.

Accessories

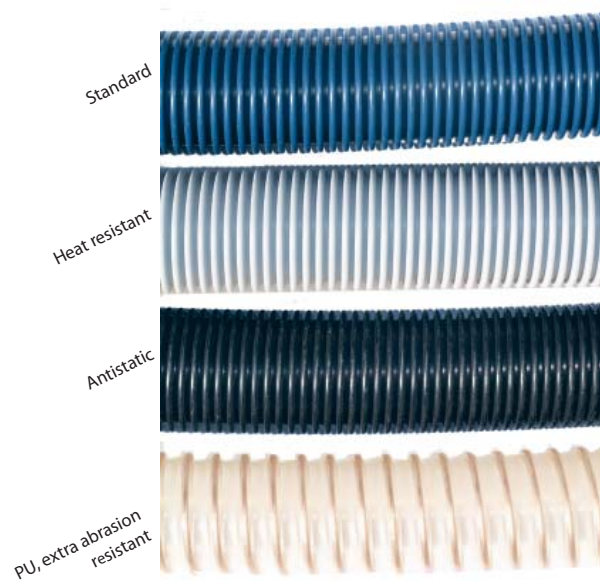
In this section you can find everything you need to complement your dust extractor, e.g. hoses, pipes and assembly parts, automation for work stations, connectors, accessories, nozzles, flex-pipes, hose reels and auto-start boxes.

Suction hoses

The hose is the conveying line of the source extraction installation. The demands placed on the suction hose are:

- wear resistance
- low weight and flexibility
- not affected by extremes of temperatures
- crushproof
- does not give static electric shocks

When long suction hoses have to be used their diameter should progressively increase from the suction casing, with the smallest hose nearest the suction casing not exceeding 2–3 m length. Coupling is carried out with external couplings which are easy to use.



Suction hoses, standard, Ø

Part no/m	Standard length
76 2001	10 m
50 2401	5, 10, 15 m
38 2111	5, 10, 15 m
32 2112	5, 10, 15 m
25 2113	5, 10, 15 m

Suction hoses, antistatic, Ø

Part no/m	Standard length
76 2024*	10 m
50 2013*	5, 10, 15 m
38 2012*	5, 10, 15 m
32 2005*	5, 10, 15 m
25 2025*	5, 10, 15 m

Suction hoses, heat resistant, Ø

Part no/m	Standard length
50 2004	5, 10, 15 m
38 2003	5, 10, 15 m

Suction hoses PU, extra abrasion resistant, Ø

Part no/m	Standard length
76 2056**	5 and 10 m
50 2054**	5 and 10 m
38 2055**	5 and 10 m

For larger dimensions, contact us.

Material properties

TECHNICAL DATA, Description	Dimension Ø	Part No	Colour	Material	Temp °C max/min	Antistatic	Abrasion resistance	UV and zone resistance	Resistance to welding fume	Resistance to solvent and oil
Suction hoses standard	76 mm	2001	Blue	PE	+45/-45	No	2	2	3	3
	50 mm	2401	Blue	PE	+45/-45	No	2	2	3	3
	38 mm	2111	Blue	PE	+45/-45	No	2	2	3	3
	32 mm	2112	Blue	PE	+45/-45	No	2	2	3	3
	25 mm	2113	Blue	PE	+45/-45	No	2	2	3	3
Suction hoses heat resistant	50 mm	2004	Grey	PP(EPDM)	+90/-40	No	3	2	1	4
	38 mm	2003	Grey	PP(EPDM)	+90/-40	No	3	2	1	4
Suction hoses antistatic	76 mm	2024	Black	PE	+45/-40	Yes	2	2	3	3
	50 mm	2013	Black	PE	+45/-40	Yes	2	2	3	3
	38 mm	2012	Black	PE	+45/-40	Yes	2	2	3	3
	32 mm	2005	Black	PE	+45/-40	Yes	2	2	3	3
	25 mm	2025	Black	PE	+45/-40	Yes	2	2	3	3
Suction hoses PU	76 mm	2056	Trans-parent	PU	+80/-60	Yes**	1	1	3	1
	50 mm	2054	parent	PU	+80/-60	Yes**	1	1	3	1
	38 mm	2055		PU	+80/-60	Yes**	1	1	3	1

Scale: 1 Excellent
2 Good
3 Limited
4 Poor

Ø designates the inside of the hose

Antistatic is defined as having a conductivity of $10^6 \Omega$

To order antistatic certification (ESD) according to Swedish National Testing and Research Institute (SP) – put an E after the part no.

** The wire helix must be bared and left in contact with conductive material for static discharge.

Metal hoses

Ø	Part No		Temp °C max	Material
50	2150	Flexible	+300	Steel
50	2151	Rigid	+300	Steel
38	2138	Flexible	+300	Steel
38	2139	Rigid	+300	Steel

Compressed air hoses

Diameter	Description	Part No
Ø _{int} 3/4"	Compressed air hose 3/4	2124
Ø _{int} 1/2"	Compressed air hose 1/2	2123
Ø _{int} 3/8"	Compressed air hose 3/8	2122
Ø _{int} 5 mm	Compressed air hose 5	2406
Ø _{int} 6 mm	Compressed air hose 6	8482
Ø _{int} 8 mm	Compressed air hose 8	8183

Ventilation hose

Diameter	Description	Part No
Ø 125	Ventilation hose 125	2420
Ø 250	Ventilation hose 250	2032

Hose clamps

Description	d _{min} d _{max}	Part No
Hose clamp	8–14	4027
Hose clamp	11–17	4028
Hose clamp	15–24	4146
Hose clamp	26–38	4197
Hose clamp	44–56	4075
Hose clamp	50–65	4219
Hose clamp	58–75	4002
Hose clamp	68–85	3002
Hose clamp	77–95	4090
Hose clamp	87–112	4310
Hose clamp	104–138	4138
Hose clamp	130–165	4040
Hose clamp	150–180	4137
Hose clamp	200–231	4464
Hose clamp	226–256	4102



Suction Hose Rubber

Ø	Part No Standard	Part No Extra Abrasion Resistant
152	2010	2045
102	2011	2042
76	See PU-suction hose	2046

TECHNICAL DATA

Part No	2010	2011	2042	2046	2045
Material gauge mm	1.6	1.6	4.0	4.0	6.0
Bending radius mm	200	150	200	125	600
Weight kg/m	1.9	1.2	2.0	1.4	4.8
Temp max °C	+90	+90	+90	+90	+90
min °C	-40	-40	-40	-40	-30
Internal tube	antistatic rubber	antistatic rubber	antistatic rubber	antistatic wear rubber	antistatic wear rubber
Insert	steel helix	steel helix	steel helix	steel helix copper wire	steel helix copper wire
External tube	antistatic rubber	synthetic rubber	synthetic rubber	weatherproof antistatic wear rubber	weatherproof antistatic wear rubber

Metal Hoses

Ø	Part No	Temp °C max	Material	
50	2150	flexible	+300	steel
50	2151	rigid	+300	steel
38	2138	flexible	+300	steel
38	2139	rigid	+300	steel

Compressed Air Hose

Ø	Part No
ø _{id} 3/4"	2124
ø _{id} 1/2"	2123
ø _{id} 3/8"	2122
ø _{od} 5 mm, blue	2406
ø _{od} 6 mm, blue	8482
ø _{od} 6 mm, clear	8496
ø _{od} 6 mm, black	8497
ø _{od} 8 mm, blue	8183

Hose Clamps

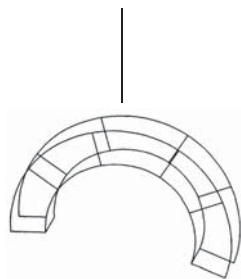
d _{min} - d _{max}	Part No
8-14	4027
11-17	4028
15-24	4146
26-38	4197
44-56	4075
50-65	4219
58-75	4002
68-85	3002
77-95	4090
87-112	4310
104-138	4138
130-165	4040
150-180	4137
200-231	4464
226-256	4102

Ventilation Hose

Ø	Part No
125 mm	2420
250 mm	2032

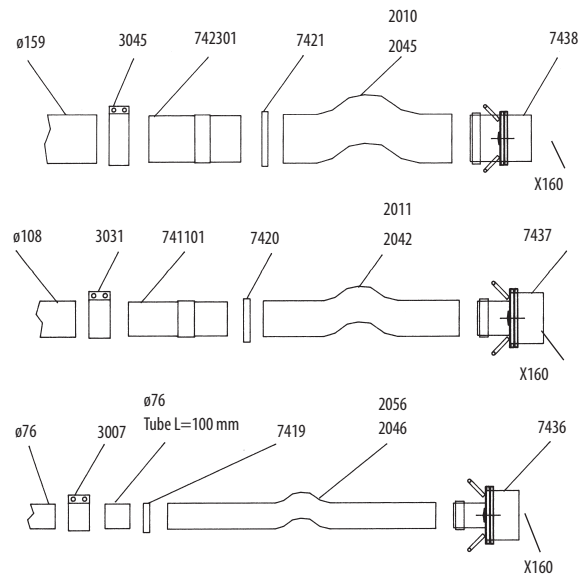
Accessories Suction Hoses

Description	Part No
Hose Hangar, white enamel	4473
Hose Hangar, stainless	7214



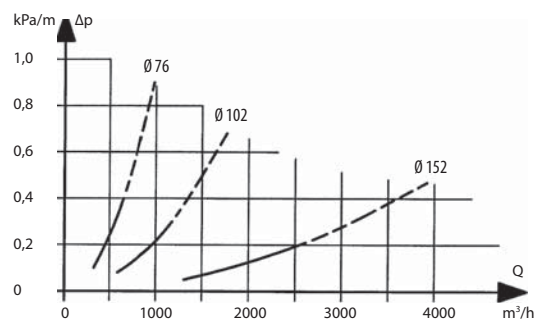
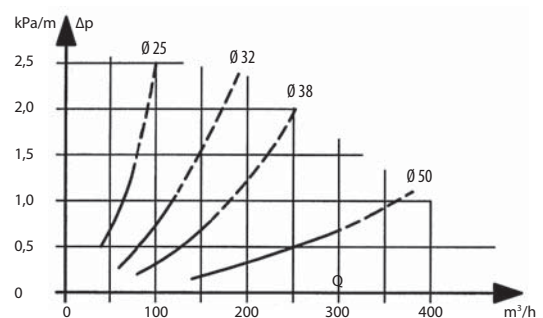
Ø designates the inside of the hose

Couplings Suction Hose Rubber/ Extra Abrasion Resistant



Part No	Description
3007	Joint Ø 76
3031	Joint Ø 108
3045	Joint Ø 160
741101	Pipe connection 108/102
7419	Hose clamp 76
7420	Hose clamp 102
7421	Hose clamp 160
742301	Pipe connection 159/152
7436	Hose connector 76/X160
7437	Hose connector 102/X160
7438	Hose connector 152/X160

Pressure Loss Suction Hoses



Swivel Couplings

COUPLING SOCKET **INTERMEDIATE SLEEVE** **CONNECTING SLEEVE**

X 50 2129 Ø 50
 Ø 50 2129 Ø 50
 2128 Ø 38
 X 38 2114 Ø 38
 2133 Ø 32

2131 Ø 38
 2114 Ø 38
 2132 Ø 32
 2114 Ø 38
 2132 Ø 32
 2171 Ø 32

Part No	Description	Part No	Description
2114*	Connecting sleeve, turnable 38/38	2132*	Connecting sleeve, turnable 32/38
2128*	Coupling socket, turnable 50/38	2133*	Coupling socket, turnable 38/32
2129*	Coupling socket, turnable 50/50	2171*	Coupling socket, turnable 32/32
2131*	Intermediate sleeve, turnable 50/38		

Couplings

COUPLING SOCKET **HOSE CONNECTOR** **INTERMEDIATE SLEEVE** **CONNECTING SLEEVE**

Ø 76 2008 Ø 76
 X 50 2107 Ø 50
 Ø 50 2108 Ø 38
 X 38 2115 Ø 38

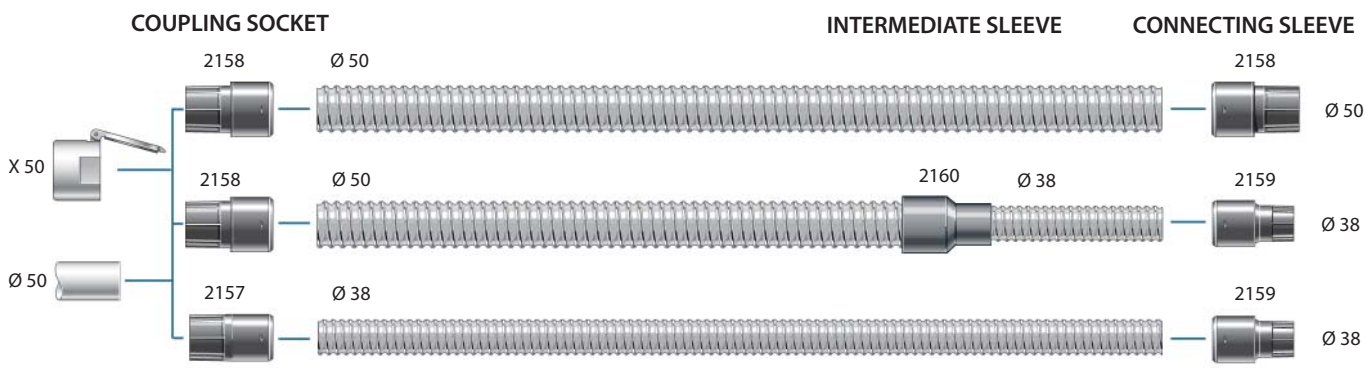
2100 Ø 50
 2403/2170 Ø 50
 2120 Ø 38
 2118/2169 Ø 38
 2121 Ø 32
 2119/2168 Ø 32
 2101 Ø 25
 2117/2167 Ø 25

2107 Ø 50
 2115 Ø 38
 2109 Ø 26
 2116 Ø 32
 2110 Ø 32
 2106 Ø 17

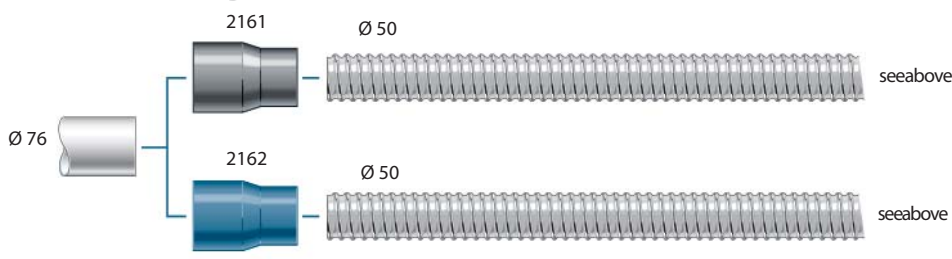
Part No	Description	Part No	Description	Part No	Description
2008*	Coupling socket 76/50	2116	Connecting sleeve 32/32	2169*	Hose connector 38
2100*	Intermediate sleeve 76/50	2117	Connecting sleeve 25/25	2170*	Hose connector 50
2101*	Intermediate sleeve 32/25	2118	Hose connector 38	2403*	Hose connector 50
2106*	Connecting sleeve 17/32	2119	Hose connector 32		
2107*	Coupling socket 50/50	2120*	Intermediate sleeve 50/38		
2108*	Coupling socket 50/38	2121*	Intermediate sleeve 38/32		
2109*	Connecting sleeve 26/38	2167*	Connecting sleeve 25/25		
2110*	Connecting sleeve 26/32	2168*	Hose connector 32		
2115*	Connecting sleeve 38/38				

* Antistatic. 10⁶ Ω cm. To order ESD-performing - put an E after the part no.

Swivel Couplings for Suction Hoses; PU



Couplings for Suction Hoses; PU



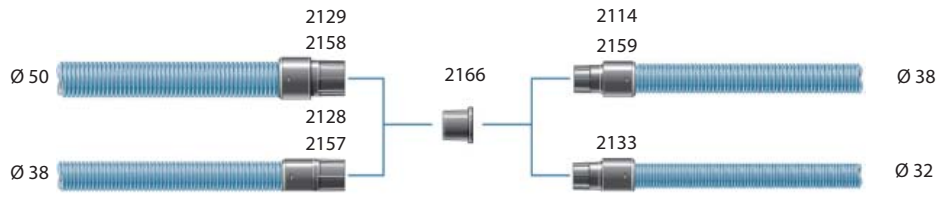
Part No	Description
2157*	Coupling socket Ø 50/38 PU, turnable
2158*	Coupling socket Ø 50/50 PU, turnable
2159*	Connecting sleeve Ø 38/38 PU, turnable

Part No	Description
2160*	Intermediate sleeve Ø 50/38 PU, turnable
2161*	Coupling socket Ø 76/50 PU, EPDM
2162*	Coupling socket Ø 76/50 PU, Nitrile

* AntistaticToorderESD-performance-putanEafter the part no.

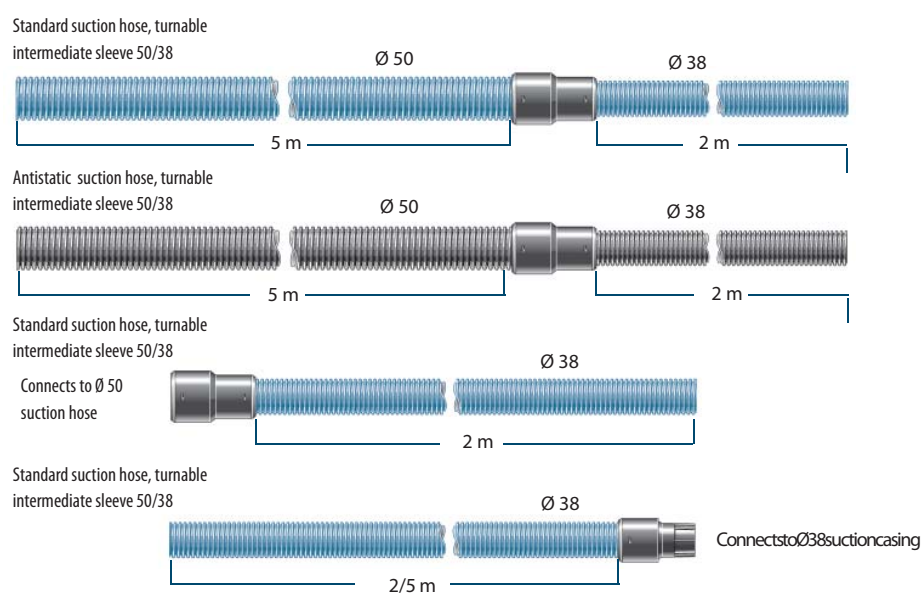
Extraction Hose Quick Couplers

Part no 2166



Hose Sets

Part no	Description
2125	Hose set 50/38 L = 7 m
2126	Hose set 50/38 L = 7 m antistatic
2006	Hose set 38 L = 2 m
2015	Hose set 38 L = 2 m
2105	Hose set 38 L = 5 m*



* Standard suction hose, turnable, non removable connector. (Replacement to standard hose kit.)

Technical data couplings

Description	Dimension Ø	Part No	Colour	Material	Temp °C max/min	Antistatic	Abrasion resistance	UV and zone resistance	Resistance to Welding Fume	Resistance to solvent and oil
Coupling socket	76/50	2008*	Black	EPDM	140/-60	Yes	2	1	2	4
	50/50	2107*	Black	EPDM	140/-60	Yes	2	1	2	4
	50/38	2108*	Black	EPDM	140/-60	Yes	2	1	2	4
	76/50 (PU)**	2161*	Black	EPDM	140/-60	Yes	2	1	2	4
Coupling socket	76/50	2162*	Blue	NBR	120/-60	Yes	2	3	3	2
Coupling socket	50/50	2129*	Black	PA12	140/-20	Yes	1	2	3	1
	50/50 (PU)**	2158*	Black	PA12	140/-20	Yes	1	2	3	1
	50/38 (PU)**	2157*	Black	PA12	140/-20	Yes	1	2	3	1
	50/38	2128*	Black	PA12	140/-20	Yes	1	2	3	1
	38/32	2133*	Black	PA12	140/-20	Yes	1	2	3	1
Connecting sleeve	32/38	2132*	Black	PA12	140/-20	Yes	1	2	3	1
	38/38 (PU)**	2159*	Black	PA12	140/-20	Yes	1	2	3	1
	38/38	2114*	Black	PA12	140/-20	Yes	1	2	3	1
	50/50	2129*	Black	PA12	140/-20	Yes	1	2	3	1
	25/25	2167*	Black	PA12	140/-20	Yes	1	2	3	1
	38/38	2115*	Black	PA12	140/-20	Yes	1	2	3	1
Connecting sleeve	26/38	2109*	Black	EPDM	140/-60	Yes	2	1	2	4
	26/32	2110*	Black	EPDM	140/-60	Yes	2	1	2	4
	17/32	2106*	Black	EPDM	140/-60	Yes	2	1	2	4
Connecting sleeve	32/32	2116	Grey	PE	45/-45	No	1	2	3	1
	25/25	2117	Grey	PE	45/-45	No	1	2	3	1
Inter, sleeves	50/38	2131*	Black	PA12	140/-20	Yes	1	2	3	1
	50/38 (PU)**	2160*	Black	PA12	140/-20	Yes	1	2	3	1
Inter, sleeves	76/50	2100*	Black	EPDM	140/-60	Yes	2	1	2	4
	50/38	2120*	Black	EPDM	140/-60	Yes	2	1	2	4
	38/32	2121*	Black	EPDM	140/-60	Yes	2	1	2	4
	32/25	2101*	Black	EPDM	140/-60	Yes	2	1	2	4
	50	2403	Grey	PE	45/-45	No	2	2	3	3
Hose connector	38	2118	Grey	PE	45/-45	No	2	2	3	3
	32	2119	Grey	PE	45/-45	No	2	2	3	3
	50	2170*	Black	PA12	140/-20	Yes	1	2	3	1
Hose connector	38	2169*	Black	PA12	140/-20	Yes	1	2	3	1
	32	2168*	Black	PA12	140/-20	Yes	1	2	3	1

Scale: 1 Excellent 2 Good
3 Limited 4 Poor

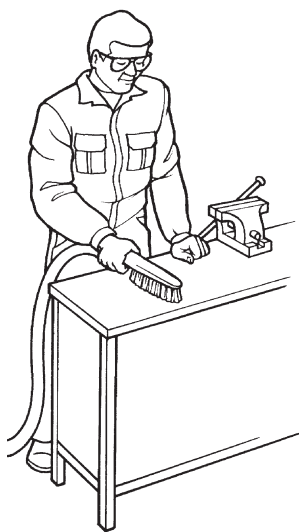
*Antistatic is defined as having a conductivity of $< 10^6 \Omega$

To order Antistatic certification (ESD-performing) – put an E after the part no according to Swedish National Testing and Research Institute (SP). Static conductivity can be compromised by excessive hose wear

** Static conductivity can be compromised by excessive hose wear.

Cleaning Accessories

For the best results when cleaning, it is necessary to have the right equipment and to use it in the correct way. It is therefore a prerequisite that a variety of different accessories are available for different tasks. 32 mm cleaning accessories are recommended when very light tools are required e.g.: office cleaning. 38 mm cleaning tools are ideal in most cases, they combine good capacity with ease of handling. Everything is available, from light tools such as wands in aluminium and tools in plastic and rubber to sturdy wear resistant wands in steel and cast aluminium floor tools. 50 mm cleaning accessories are used for very heavy cleaning. Aluminium wands, large wheels on the floor tools and the ERGO-grip are several of the details which allow the accessories to be used easily despite their size. 76 mm accessories are used for different types of material transport.



Cleaning Accessories Ø 32 mm



7293



7294



7292

2048

Part No. Description

2048	Hose set L=8 m w hand pipe
7292	Suction brush 32
7293	Floor nozzle 270 P-32
7294	Suction pipe 32 telescopic

TECHNICAL DATA

Q_{nom}	150 m ³ /h
Δp_{nom}	7 kPa

Cleaning accessories Ø 38 mm



7155



7038



7047



7048



7049



7154



7276



7291



7365



7264



7257



7258



7259



7260



7261



7035



7213



7376



7262

Part No Description

7035	Hand pipe Ø 38
7038	Suction nozzle Ø 38
7047	Suction brush B 200
7048	Pipe nozzle RB 100
7049	Pipe nozzle RB 200
7154	Brush for pipe nozzle 7048
7155	Brush for pipe nozzle 7049
7213	Flat nozzle Ø 38 L=400
7235*	Floor nozzle 370 A Ø 38
7236*	Floor nozzle 450 A Ø 38
7257*	Suction pipe Ø 38, steel
7258*	Suction pipe Ø 38, alu
7259*	Suction pipe Ø 38, alu w wear rub
7260	Extension suction pipe Ø 38 steel
7261*	Extension suction pipe Ø 38 alu
7262	Hand pipe Ø 38 curved
7263	Brush for 7275, 7278
7264	Tapered nozzle Ø 38
7275	Rubber part of suction brush Ø 38, 7278
7276*	Tapered nozzle Ø 38
7278*	Suction brush Ø 38
7291	Flat nozzle Ø 38 L=350 plastic
7297	Floor nozzle Ø 38, B=200
7300	Rubber floor nozzle Ø 38
7320	Floor nozzle 320 P Ø 38 Rubber wiper
7321	Floor nozzle 320 plastic Ø 38 brush
7322	Floor nozzle 370 P Ø 38 Rubber wiper
7323	Floor nozzle 370 plastic Ø 38 brush
7365	Flat nozzle Ø 38
7376	Suction-blow nozzle



7235



7236



7321



7322



7323



7300



7278



7297



7275



7263

TECHNICAL DATA

Floor nozzle;	
Light applications	
Q _{nom}	200 m ³ /h
Δp _{nom}	5 kPa
Heavy applications	
Q _{nom}	250 m ³ /h
Δp _{nom}	8 kPa
Hand Nozzle;	
Q _{nom}	250 m ³ /h
Δp _{nom}	3 kPa

* Antistatic. To order ESD-performance – put an E after the part no.

Cleaning accessories Ø 50 mm



Part No Description

7013	Rubber part, floor nozzle Ø 50
7016	Suction nozzle with brush
7026	Saw blade
7030	Suction nozzle Ø 50
7033	Hand pipe Ø 50
7147	Brush for 7016
7212	Flat nozzle Ø 50 L=400
7238*	Floor nozzle 500 A-50
7263	Brush for 7274, 7279
7265	Suction pipe Ø 50, steel
7266	Suction pipe Ø 50, alu
7267	Suction pipe Ø 50, alu wear rub
7268	Extension suction pipe Ø 50, steel
7269	Extension suction pipe Ø 50, alu
7271	Hand pipe Ø 50 curved
7272	Tapered nozzle Ø 50
7274	Rubber part of suction brush Ø 50
7277*	Tapered nozzle Ø 50
7279	Suction brush Ø 50
7281	Floor nozzle Ø 50 B 200
7284	Scrapper
7285	Handle ERGO-Grip
7295	Bulk nozzle Ø 50
7307	Floor nozzle, aluminium
7373	Saw and scaper nozzle
7377	Suction-blow nozzle



TECHNICAL DATA

Floor nozzle;

Q_{nom} 350 m³/h

Δp_{nom} 8 kPa

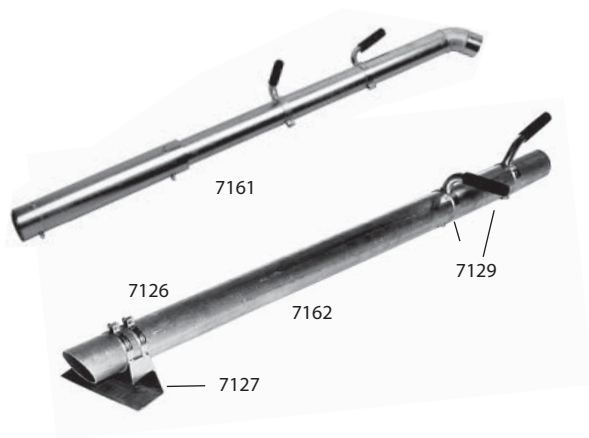
Hand Nozzle;

Q_{nom} 350 m³/h

Δp_{nom} 3 kPa

* Antistatic. To order ESD-performance – put an E after the part no.

Cleaning accessories Ø 76



Part No	Description
7126	Clamp for scraper
7127	Scraper for suction lance
7129	Handle complete
7161	Bulk nozzle Ø 76
7162	Suction lance Ø 76

Welding accessories/Suction nozzles

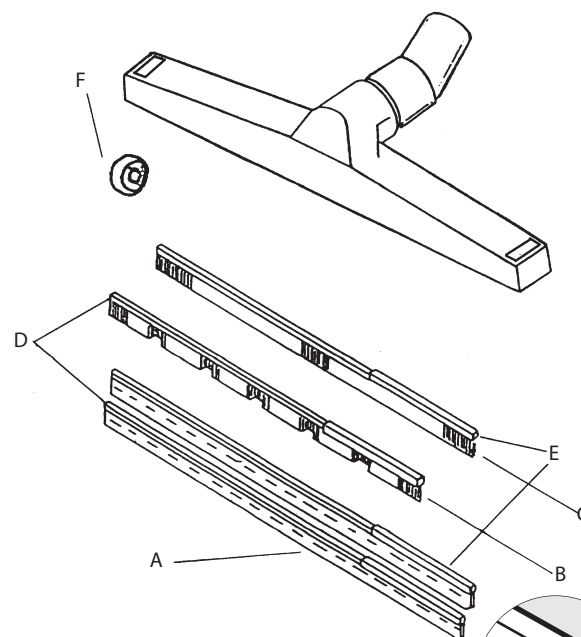


Part No	Description	Connection(Ø)
4149	Suction nozzle	50
6005	Universal nozzle	38
6098	Tubular nozzle	38
6610	Universal nozzle	38
7148	Funnel shaped nozzle Ø 50	50
7150	Magnetic holder for 7148, 4149	50

TECHNICAL DATA		
Part No	Q _{nom}	Δp _{nom}
4149	250 m ³ /h	1.6 kPa
6005	150 m ³ /h	1.6 kPa
6098	150 m ³ /h	3.8 kPa
6010	150 m ³ /h	1.6 kPa
7148	250 m ³ /h	1.6 kPa
9060	150 m ³ /h	2.7 kPa

Floor nozzles Ø 38, plastic

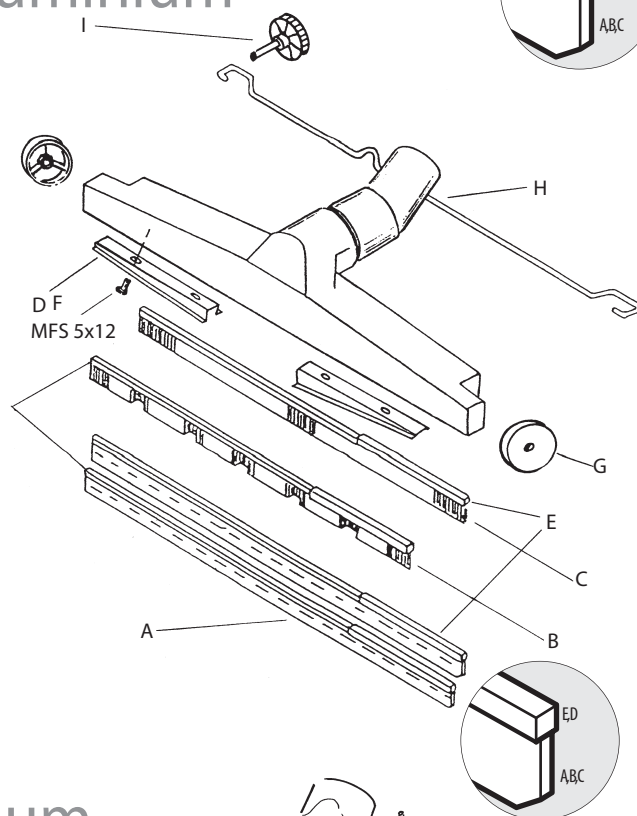
Set	— B = 320 —		— B = 370 —			
	7320	7321	7322	7323		
A Rubber band B 316/288 (2 pcs)	7328	x	—	7329	x	—
B Front brush	7225	—	x	7226	—	x
C Rear brush	7326	—	x	7327	—	x
D Brush holder	7215	x	x	7216	x	x
E Brush holder	7324	x	x	7325	x	x
F Wheel, floor nozzle P	40455	x	x	40455	x	x



Floor nozzles Ø 38, Ø 50, aluminium

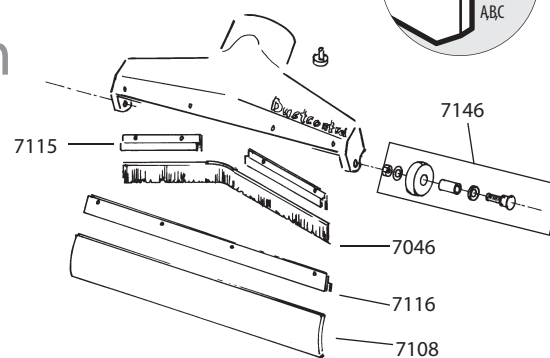
Set	— Ø38 —		— Ø50 —			
	— B = 370 — 7235	— B = 450 — 7236	— B = 500 — 7238			
A Rubber band* (2 pcs)	7045	x	7014	x	7051	x
B Front brush	7222	—	7223	—	7224	—
C Rear brush	7225	—	7228	—	7227	—
D Brush holder	7216	x	7218	x	7219	x
E Brush holder	7215	x	7217	x	7218	x
F Cover 370 A	7242	x	7243	x	7244	x
G Wheel, floor nozzle A	7252	x	7252	x	7252	x
H Clamp	7239	x	7240	x	7241	x
I Adjusting screw	7253	x	7253	x	7253	x

* Also by the metre, Part No 7058 (50 m)



Floor nozzles Ø 50, aluminium

Set	B = 400		B = 450	
	— 7307 —			
Rubber moulding (2 pcs)	7108		x	
Brush B 450/420	7046		x	
Brush holding moulding	7115		x	
Brush holding moulding	7116		x	
Wheel kit	7146		x	



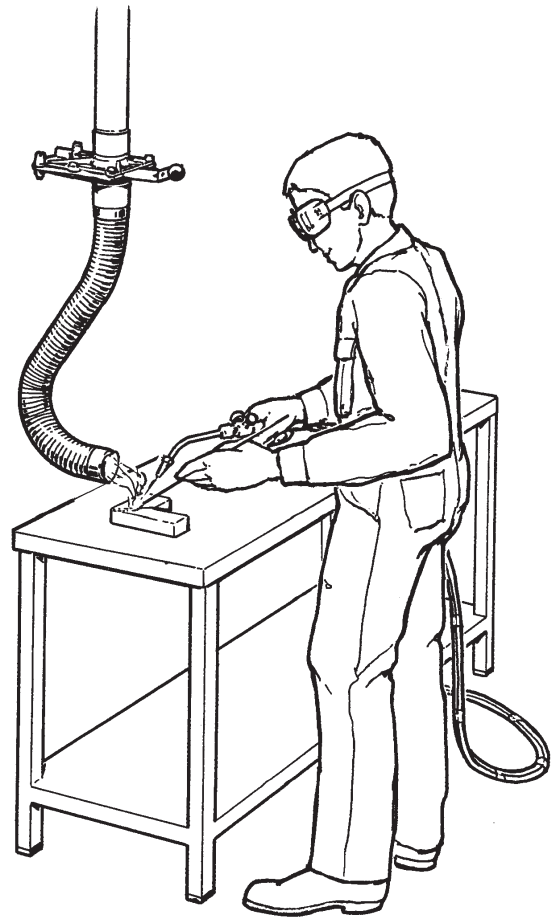
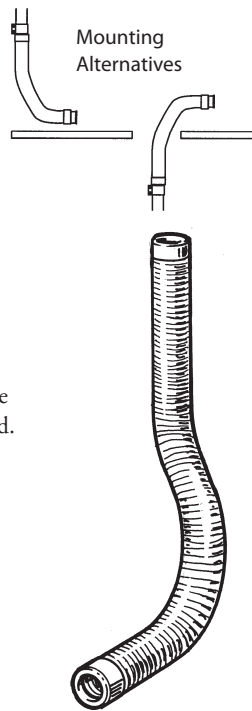
Flexpipe

Part No.	Ø	L
7330	50	700
7308	50	1000
7331	76	700
7332	76	1000

Dustcontrol's Flexpipe is a new type of extraction arm for source extraction of welding fume, chemical vapours, wood dust, etc.

The Flexpipe is a flexible hose that can be placed in practically any orientation desired.

The diameter of the Flexpipe is small and it can be used very close to the source without disturbing the work. Extraction is very effective.



TECHNICAL DATA	7330	7308	7331	7332
Inner Diameter	Ø 50	Ø 50	Ø 76	Ø 76
Tubing System Connection	joint Ø 50 Part No. 3077	joint Ø 50 Part No. 3077	joint Ø 76 Part No. 3007	joint Ø 76 Part No. 3007
Length	700 mm	1 m	700 mm	1 m

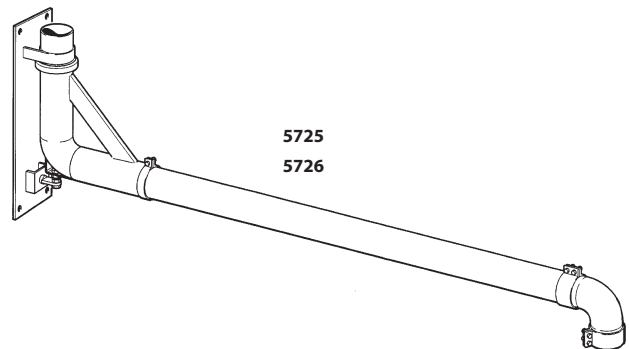
Swingarm for Flexpipe

The Flexpipe reach can be increased with the swingarm installation. The swingarm length is easily adjusted by either cutting the horizontal tube or by replacing it with a longer tube from the standard tubing system, max. 3 m for Ø 50 and max. 4 m for Ø 76.

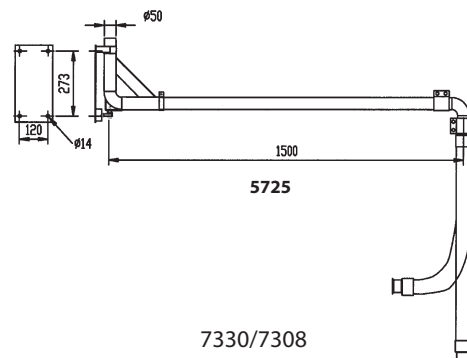
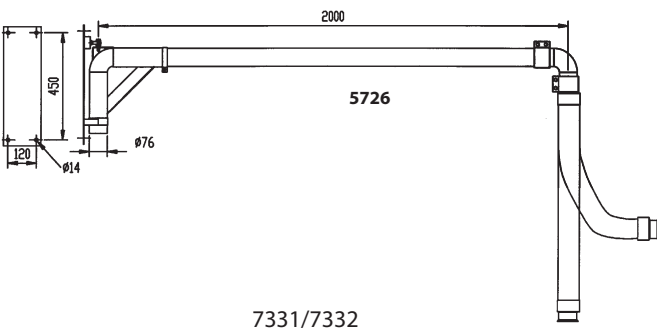
The swingarm may be equipped with suction hose but should not be loaded with anymore than the weight of the hose itself.

Ø 50 Part. no 5725

Ø 76 Part. no 5726



Dimensions



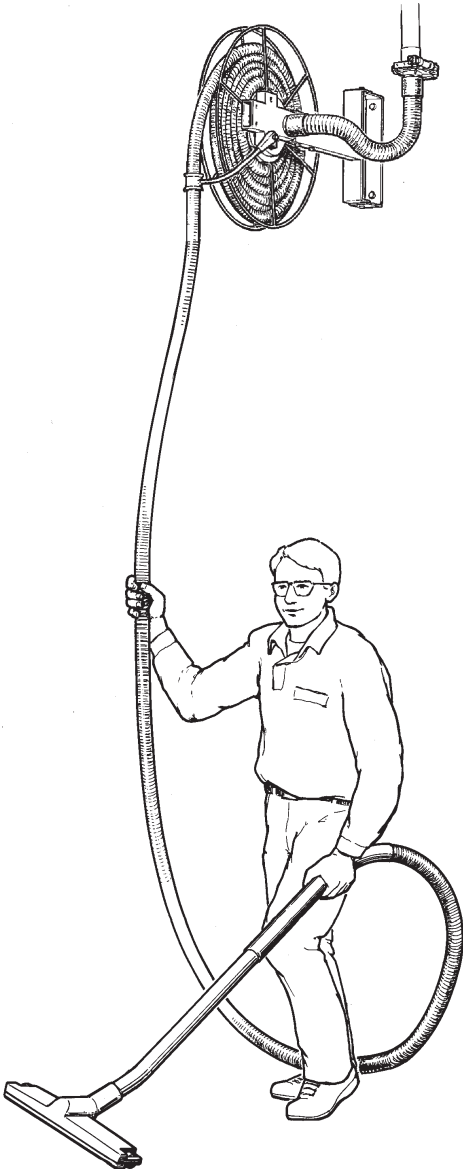
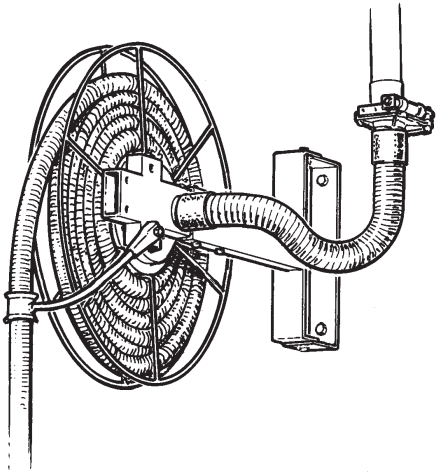
Hose Reel

The Dustcontrol hose reel for 38 mm hose can be used with all available 38 mm accessories. The hose reel mechanism is equipped with a latch mechanism allowing the user to take out as much hose as required and then retracting it onto the reel for storage. Vacuum through the reel is controlled by a combination of pneumatic switch and automatic shutter valve. The tubing system opens automatically when the hose is withdrawn from the reel. The hose reel is supplied with an articulating mounting bracket.

















Part No 7305 Hose Reel Ø38 mm, complete

TECHNICAL DATA

Max. hose length	7.5 m
Connection diameter	Ø 50
Compressed air supply	min 5 bar (75 psi)



Container and Accessories

Part No	Description	Volume	Capacity	Picture	DC 1800*	DC 2800a	DC 3800a/i	DC 5800a/i	Comments
42278-70	Container	20 l	40 kg		X				Is delivered complete with wheels undercarriage and fasteners.
40070	Container	40 l	60 kg		X*	X	X		–
40409	Container with sight glass	40 l	60 kg		X*	X	X		Steel container with sight glass and knockout for drain tap.
40624	Container, stainless	40 l	60 kg		X*	X	X		Stainless steel container for liquids.
40412	Container with sight glass	60 l	60 kg		X*	(X)**	(X)**	X	Steel container with sight glass and knockout for drain tap. The cyclone must be raised to a higher mounting point with the above kit.
42369	Basket for plastic bag				X				Ensures that the bag can't get around the filter when the machine is used for light material.
4119	Drain tap 40/60 l				X	X	X	X	The drain tap is mounted on the 40 l with sight glass. R 1/2"
40410	Bottom screen 40/60 l				X	X	X	X	For fluid separation; The bottom screen is installed in the bottom and the drain tap is mounted on the container, 40/60 l.
40401	Carrying handles 40 l				X	X	X	X	Heavy duty carrying handles are installed in place of the standard locking hooks. For 40 l containers.
7313	Emptying car 40/60 l				X	X	X	X	Emptying cart for easy handling of the container.
42078	Lifter kit 60 l							X	When the 60 l container is to be used, the cyclone must be raised on the units chassis.
7368	Container	75 l						X	
7249	Container with sight glass	90 l	150 kg					X	The cyclone is mounted in the higher mounting position and the bottom cone is changed.
7314	Container with sight glass, drain tap and bottom screen	90 l	150 kg					X	The cyclone is mounted in the higher mounting position and the bottom cone is changed.
7248	Emptying cart 90 l							X	The cart for handling of the 90 l container can also be handled with a fork lift. The container is rotated for emptying.
42079	Bottom cone kit , 90 l, incl extension hose							X	When the 90 l container the cyclone must be mounted at a higher position on the chassis and the bottom cone changed.
7315	Crane hook 90 l							X	The crane hook is mounted securely on the 90 l container. The container can be rotated for emptying in the elevated position.

* Max 40 kg when fitted to a DC 1800

** Fits to the cyclone but not to the standard chassis



Filter Material Specifications

Cellulose Fine Filter

Good quality standard filter with high filtration efficiency. Epoxy treated for resistance to humidity and other elements.

Polyester Fine Filter

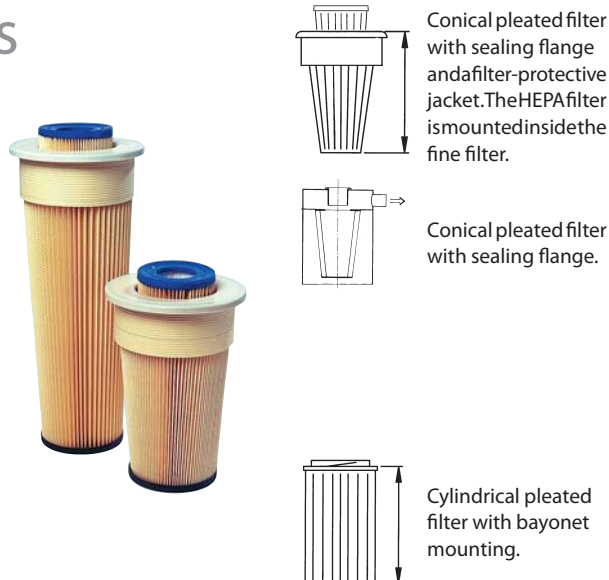
High quality filter material with exceptional resistance to most elements. Particularly suitable to high humidity applications such as machine and tool shops where cutting and cooling fluids are used. Filter can be washed.

HEPA Filter

The HEPA filter is made of fibreglass material with a support layer of cellulose. Filtration efficiency is 99,995% EN 60335.

Note: When changing filters the gasket of the filter holder has to be checked and cleaned. Leakage is not permitted in Asbestos applications.

In applications requiring special filter materials, standard filter configurations can be ordered with alternative materials.



Conical pleated filter with sealing flange and filter-protective jacket. The HEPA filter is mounted inside the fine filter.

Conical pleated filter with sealing flange.

Cylindrical pleated filter with bayonet mounting.

DC 1800, DC 2800c, DC 2800c Rental, DC 2800a

Part No	Description	Construction	Material	Area m ²	Classification	Max temp
42029	Fine filter	Pleated around support cyl.	Cellulose, epoxy treated	1,5	IEC EN 60335-2-69 Part 1	80°C
42029ST	Fine filter, 48 pcs		Cellulose			
42028	Fine filter	Pleated	Polyester	1,5	IEC EN 60335-2-69 Part 1	130°C
42027	HEPA filter	Pleated	Cellulose, fibreglass	0,85	HEPA H13	80°C
40479	Combi-filter (Fine filter + HEPA filter), (GS Asbestos)	Pleated	Cellulose, epoxy treated	1,5	HEPA H13	80°C

DC 3800a, DC 3800c, DC 3800c Turbo, DC 3800c Twin, DC 3800 TR S, DC 3800i, DC 3800 Stationary

Part No	Description	Construction	Material	Area m ²	Classification	Max temp
42026	Fine filter	Pleated around support cyl.	Cellulose, epoxy treated	1,8	IEC EN 60335-2-69 Part 1	80°C
42026ST	Fine filter, 24 pcs		Cellulose			
42025	Fine filter	Pleated	Polyester	1,8	IEC EN 60335-2-69 Part 1	130°C
42025ST	Fine filter, 24 pcs		Polyester			
42024	HEPA filter	Pleated	Cellulose, fibreglass	1,5	HEPA H13	80°C

DC 5800a, DC 5800c PTFE, DC 5800a PTFE, DC 5800 TR, S 11000, S 21000, S 32000, S 34000, DC 11-Module

Part No	Description	Construction	Material	Area m ²	Classification	Max temp
429203	Fine filter PTFE	Pleated around support cyl.	Polyester PTFE	5,0	IEC EN 60335-2-69 Part 1	130°C
4292	Fine filter	Pleated around support cyl.	Polyester	8,4	IEC EN 60335-2-69 Part 1	130°C
4422	HEPA filter	Pleated around support cyl.	Cellulose, fibreglass	2,5	HEPA H13	80°C
4284	Fine filter S 3400X C-class	Pleated around support cyl.	Polyester	12	IEC EN 60335-2-69 Part 1	130°C

DC 5800c, DC 5800i,

Part No	Description	Construction	Material	Area m ²	Classification	Max temp
429204	Fine filter	Pleated around support cyl	Polyester	5,0	IEC EN 60335-2-69 Part 1	130°C
4422	HEPA filter, DC 5800 DC 5800i 5 kW, 9,2 kW S (installed under top cover)	Pleated around support cyl	Cellulose, fibreglass	2,5	HEPA H13	80°C
4017	HEPA filter, DC 5800c 9,2 kW P (2 pcs/machine) (installed on exhaust)	Pleated	Cellulose, fibreglass	2,8	HEPA H13	80°C

Air Cleaners DC AirCube/DC AirCube Rental/DC AirCube X2

Part No	Description	Construction	Material	Area m ²	Classification	Max temp
4080	Pre-filter	Carpet, single ply	Polyester	0,1	IEC EN 60335-2-69 Part 1	100°C
42136	Combi-filter (Fine filter + HEPA filter)	Cartridge, pleated	Fibreglass	5,2	HEPA H13	80°C

Earlier models

DC 2500i, DC 2500, DC 2500 Twin

Part No	Description	Construction	Material	Area m ²	Classification	Max temp
4889	Fine filter	Pleated	Polyester	1,4	IEC EN 60335-2-69 Part 1	130°C
404901	Fine filter	Pleated around support cyl.	Cellulosa	1,5	IEC EN 60335-2-69 Part 1	70°C
4821	HEPA filter K	Pleated	Cellulose, fibreglass	1,5	HEPA H13	70°C
4133	HEPA filter (installed in the fine filter)	Pleated around support cyl.	Cellulose, fibreglass	0,5	HEPA H13	80°C

DC2700c, DC2700i From serial number 2527595, the DC2700c and the DC2700i can be equipped with a separate HEPA-filter (Part No. 42027). Older models shall be equipped with a single HEPA combi-filter.

Part No	Description	Construction	Material	Area m ²	Classification	Max temp
42029	Fine filter	Pleated around support cyl.	Cellulose, epoxy treated	1,5	IEC EN 60335-2-69 Part 1	80°C
42029ST	Fine filter, 48 pcs		Cellulose			
42028	Fine filter	Pleated	Polyester	1,5	IEC EN 60335-2-69 Part 1	130°C
40479	Combi-filter (Fine filter + HEPA filter)	Pleated	Cellulose, epoxy treated	1,5	HEPA H13	80°C

DC 3500, DC 3500 TR, DC 3500 Stationary, DC 5500, DC 5500i

Part No	Description	Construction	Material	Area m ²	Classification	Max temp
408801	Fine filter	Pleated	Polyester	1,6	IEC EN 60335-2-69 Part 1	130°C
408803	Fine filter	Pleated	Cellulose	1,6	IEC EN 60335-2-69 Part 1	80°C
4821	HEPA filter, DC 3500 TR	Pleated	Cellulose, fibreglass	1,5	HEPA H13	70°C
4366	HEPA filter, DC 3500 (installed on exhaust)	Pleated around support cyl.	Cellulose, fibreglass	1,2	HEPA H13	80°C
4422	HEPA filter, DC 5500 5 kW, 9,2 kW S (installed under top cover)	Pleated around support cyl.	Cellulose, fibreglass	2,5	HEPA H13	80°C
4017	HEPA filter, DC 5500 9,2 kW P (installed on exhaust)	Pleated	Cellulose, fibreglass	2,8	HEPA H13	80°C

DC 3500i, DC 5700c

Part No	Description	Construction	Material	Area m ²	Classification	Max temp
4916	Fine filter	Pleated	Polyester	1,5	IEC EN 60335-2-69 Part 1	130°C
4917	Combi-filter DC 3500i (Fine filter + HEPA filter)	Pleated	Cellulose, fibreglass	1,5	HEPA H13	80°C
4422	HEPA filter DC 5700 5 kW, 9,2 kW S (installed under top cover)	Pleated around support cyl.	Cellulosa, fibreglass	2,5	HEPA H13	80°C
4017	HEPA filter DC 5700 9,2 kW P (installed on exhaust)	Pleated	Cellulose, fibreglass	2,8	HEPA H13	80°C

DC 3700c

Part No	Description	Construction	Material	Area m ²	Classification	Max temp
42026	Fine filter	Pleated around support cyl.	Cellulose, epoxy treated	1,8	IEC EN 60335-2-69 Part 1	80°C
42025	Fine filter	Pleated	Polyester	1,8	IEC EN 60335-2-69 Part 1	130°C
4505	Combi-filter (Fine filter + HEPA filter)	Pleated	Cellulose, fibreglass, epoxy treated	1,8	HEPA H13	80°C

Air Cleaners DC 380/DC 1500

Part No	Description	Construction	Material	Area m ²	Classification	Max temp
4080	Pre-filter, DC 380	Carpet, single ply	Polyester	0,1	IEC EN 60335-2-69 Part 1	100°C
4669	Pre-filter, DC 1500	Carpet, single ply	Polyester	0,3	IEC EN 60335-2-69 Part 1	100°C
4079	Combi-filter (Fine filter + HEPA filter), DC 380	Cartridge, pleated	Fibreglass	4,7	HEPA H13	120°C
4667	Combi-filter (Fine filter + HEPA filter), DC 1500	Cartridge, pleated	Fibreglass	15,9	HEPA H13	120°C

Some of our most common filters



Plastic sacks

All plastic sacks are manufactured in strong LD-polyethylene.



Sacks are sold in packs of 50

Plastic sacks, model	Bag standard	Bag antistatic	Bag with strap	Volume (litre)	Size (mm)
Single-phase dust extractors					
DC 1800	42384			15	360 x 700
DC 2800c	42291*			20	440 x 550
DC 2800c Rental	4814	42112		20	440 x 550
DC 2800 H Asbestos	4814	42112		20	360 X 700
DC 3800c	4314		4110	40	500 X 850
DC 3800c Twin	4314		4110	40	500 X 850
Three-phase dust extractors					
DC 3800c Turbo	4314		4110	40	500 X 850
DC 3800c Twin Turbo	4314		4110	40	500 X 850
DC 5800c	4614			60	700 850
Compressed air dust extractors					
DC 3800 TR S	4110			40	500 X 850
DC 5800 TR	4614			60	700 X 850
EX-LINE					
DC 1800 EX		42111		20	700 X 1100
DC 2800 EX		42111		20	700 X 1100
DC 3800 EX					
DC 3800 Turbo EX					
DC 5800 EX					
Stationary dust extractors					
S 11000	4614	42429		60	700 X 850
S 21000	4714	42429		90	700 X 1100
S 32000	4714	42429		90	700 X 1100
S 34000	4714	42429		90	700 X 1100
S 34000x	4714	42429		90	700 X 1100
DC 3800 stationär	4314			40	500 X 850
DC 11 modul	4614			60	700 X 850
Pre-separators					
DCF 2800	4814			20	440 X 550
DCF 2500	4814			20	440 X 550
DCF 3500	4314			40	500 X 850
DCF Mobil	4714	42111		90	700 X 1100
F 8000	4714			90	700 X 1100
F 11000	4614	42429		60	700 X 850
F 20000	4714	42429		90	700 X 1100
F 30000	4714	42429		90	700 X 1100
Old dust extractors					
DC 2500	4814	42112		20	440 X 550
DC 2700c	4814	42112		20	440 X 550
DC 2500 Twin	4314			40	500 X 850
DC 5500	4614			60	700 X 850
DC 3500	4314			40	500 X 850
DC 11000	4614			60	700 X 850

* Sacks are sold in packs of 10

Bag strap 4313, 4613