



# ***Nederman***

Products that improve the working environment,  
reduce environmental impact and increase efficiency.

## Welcome to Nederman!

This is our new product catalogue with our standard products. We hope it will act as a practical reference document and an inspiring guide to improving workplaces and reducing environmental impact. Our solutions and products can be used to make a noticeable improvement to production efficiency and product quality.

For over 60 years, Nederman has helped to reduce the environmental impact of manufacturing processes, protect people from harmful gases and particles, and create a more efficient working environment.

Nederman is a world leader in industrial air filtration. We are specialists in solving problems related to fumes, gas, dust, recycling, working conditions and an efficient production environment. Many of our solutions have been ground-breaking innovations within the metal fabrication industry, vehicle repair shops, plastic and composite processing, the chemical, food and woodworking industries and many more.

Nederman's services cover everything from project planning to installation, commissioning and service. We sell through subsidiaries in 29 countries as well as resellers and distributors in a further 30 countries. Nederman has its own production and assembly facilities in Europe, Asia and North America. The Group is listed on Nasdaq OMX Stockholm.

You can find information on our products, solutions and contact details on the Nederman website at [www.nederman.com](http://www.nederman.com). Nederman is certified according to ISO 9001 and ISO 14001.

### VISION

To be the global leader of competence in solutions for eco-efficient production.

### MISSION

With a unique knowledge base in applications, products and systems contribute to efficient production, environmental benefits and safer workspaces.

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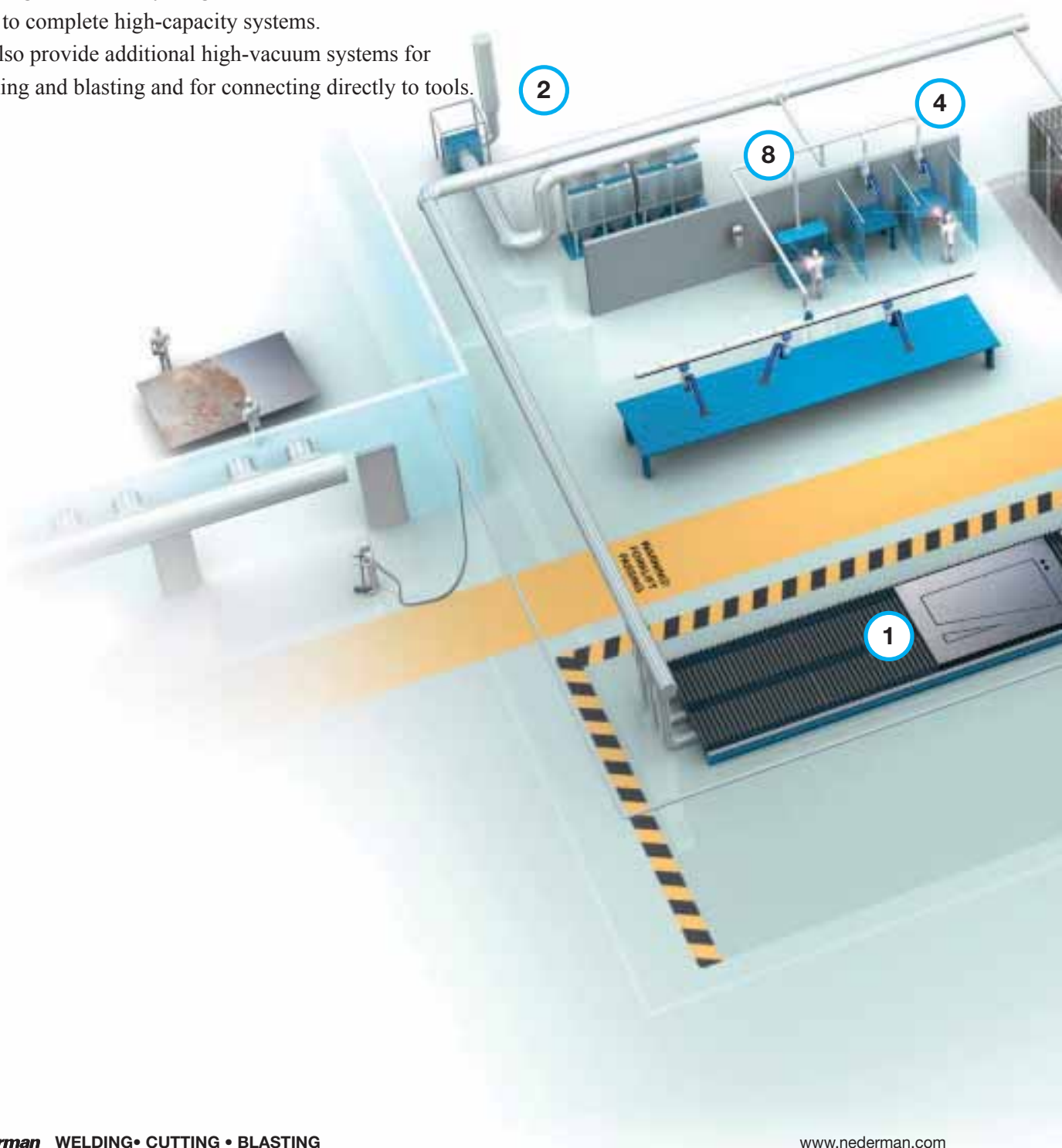
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# Complete solutions for welding, cutting and blasting.

Nederman offers complete solutions to achieve a good and efficient working environment for metal fabrication, welding, thermal cutting and blasting.

The range covers everything from small mobile filter units to complete high-capacity systems.

We also provide additional high-vacuum systems for cleaning and blasting and for connecting directly to tools.





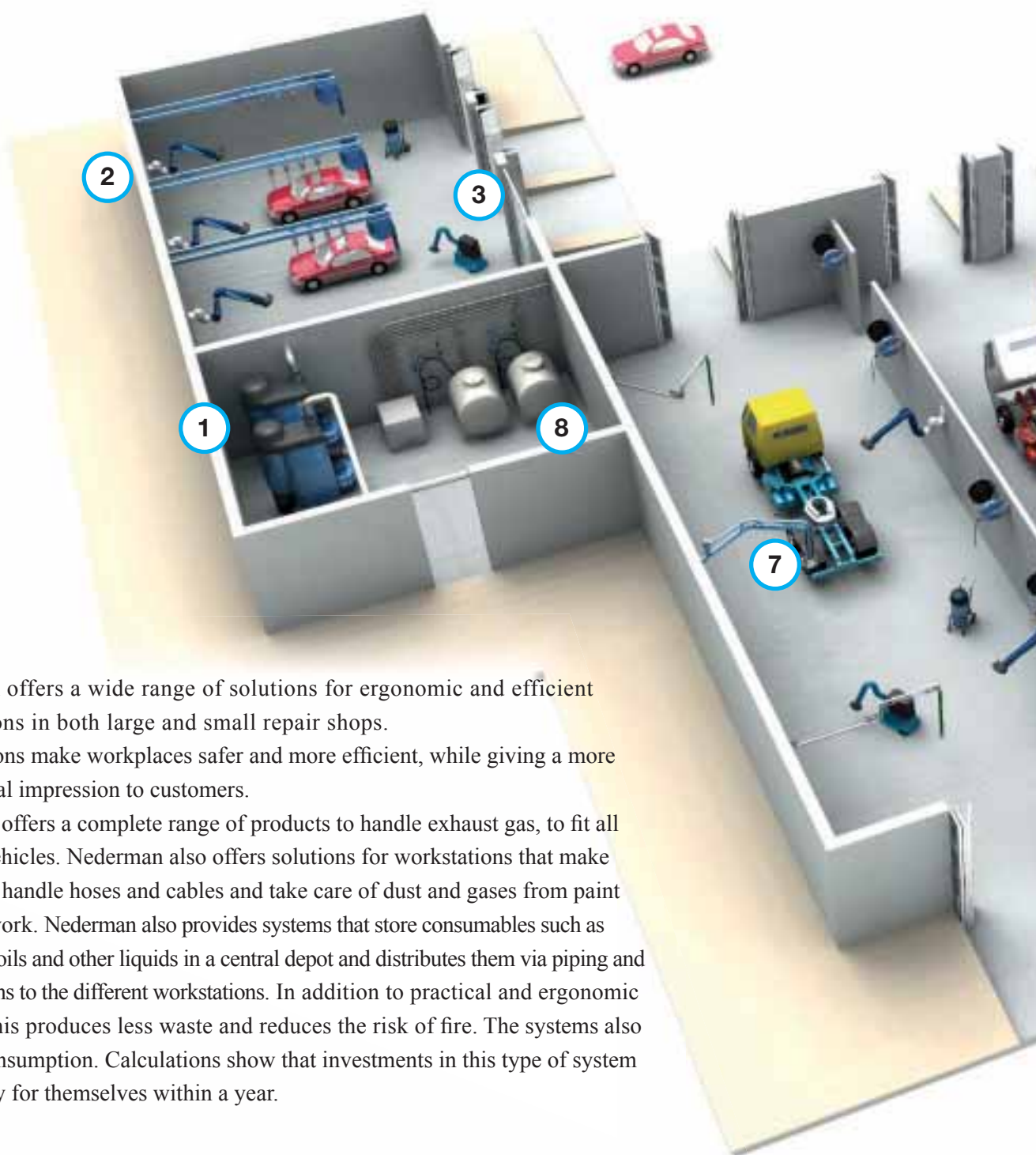


1. For thermal cutting (plasma, laser, gas), fumes are extracted directly from the table.
2. Filter connected to cutting table, manual and automated workstations.
3. Mobile blasting machine with filter to enable dust-free blasting and recovery of grit.
4. Extraction arms connected to central filter.
5. Extractor integrated with welding torch and connected to portable or central filter system.
6. Extraction hood to catch welding fumes from robotic welding. Alternatively, an integrated high vacuum extractor can be used.
7. Stationary high vacuum extraction is used.
8. Grinding and welding can be performed on workbenches with integrated extraction.

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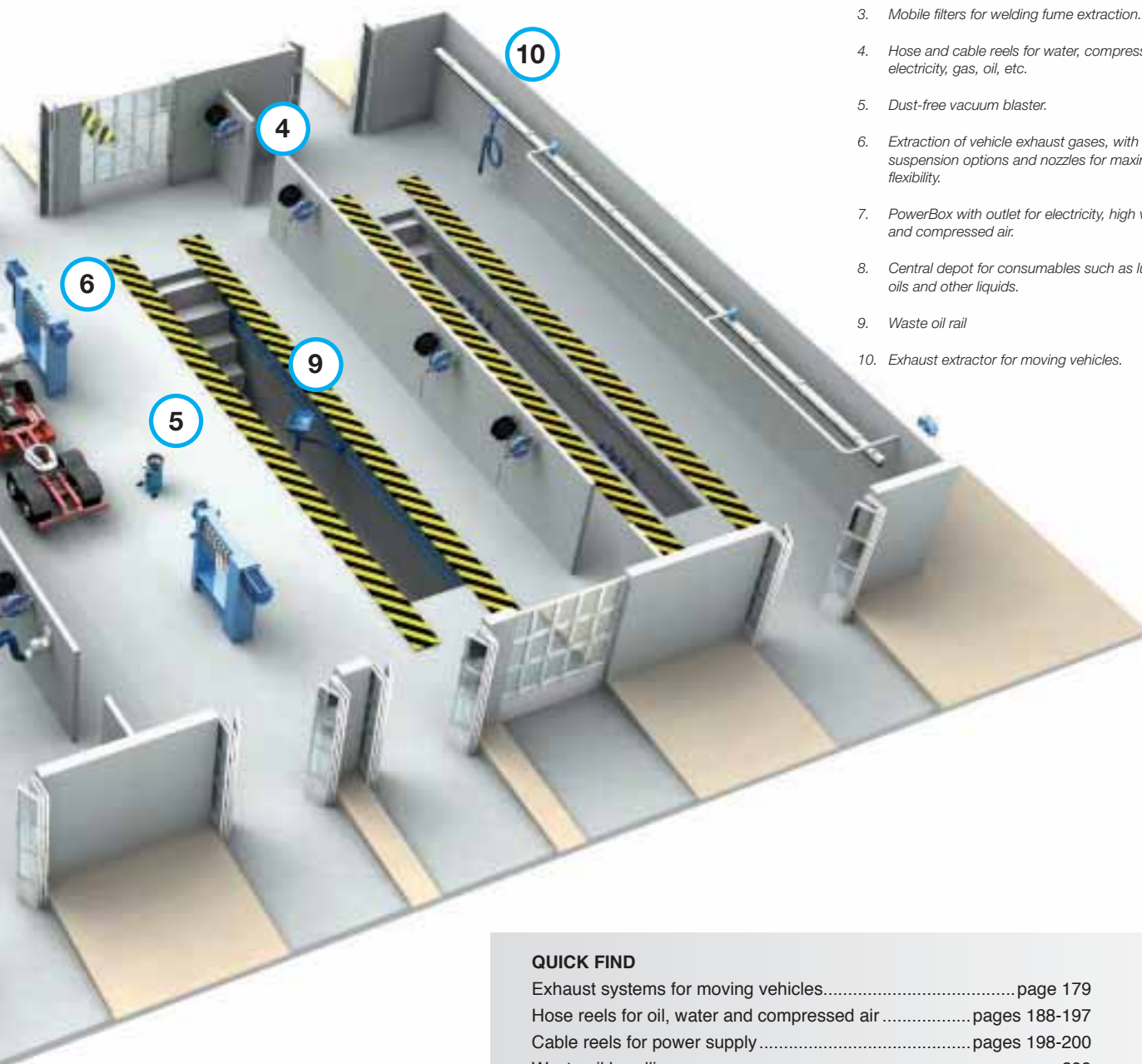
## Complete solutions for vehicle repair shops.



Nederman offers a wide range of solutions for ergonomic and efficient workstations in both large and small repair shops.

The solutions make workplaces safer and more efficient, while giving a more professional impression to customers.

Nederman offers a complete range of products to handle exhaust gas, to fit all types of vehicles. Nederman also offers solutions for workstations that make it easier to handle hoses and cables and take care of dust and gases from paint and bodywork. Nederman also provides systems that store consumables such as lubricants, oils and other liquids in a central depot and distributes them via piping and hose systems to the different workstations. In addition to practical and ergonomic benefits, this produces less waste and reduces the risk of fire. The systems also records consumption. Calculations show that investments in this type of system usually pay for themselves within a year.



1. Stationary high vacuum systems for extracting welding fumes, grinding dust and particles.
2. Flexible extraction arms.
3. Mobile filters for welding fume extraction.
4. Hose and cable reels for water, compressed air, electricity, gas, oil, etc.
5. Dust-free vacuum blaster.
6. Extraction of vehicle exhaust gases, with various suspension options and nozzles for maximum flexibility.
7. PowerBox with outlet for electricity, high vacuum and compressed air.
8. Central depot for consumables such as lubricants, oils and other liquids.
9. Waste oil rail
10. Exhaust extractor for moving vehicles.

#### QUICK FIND

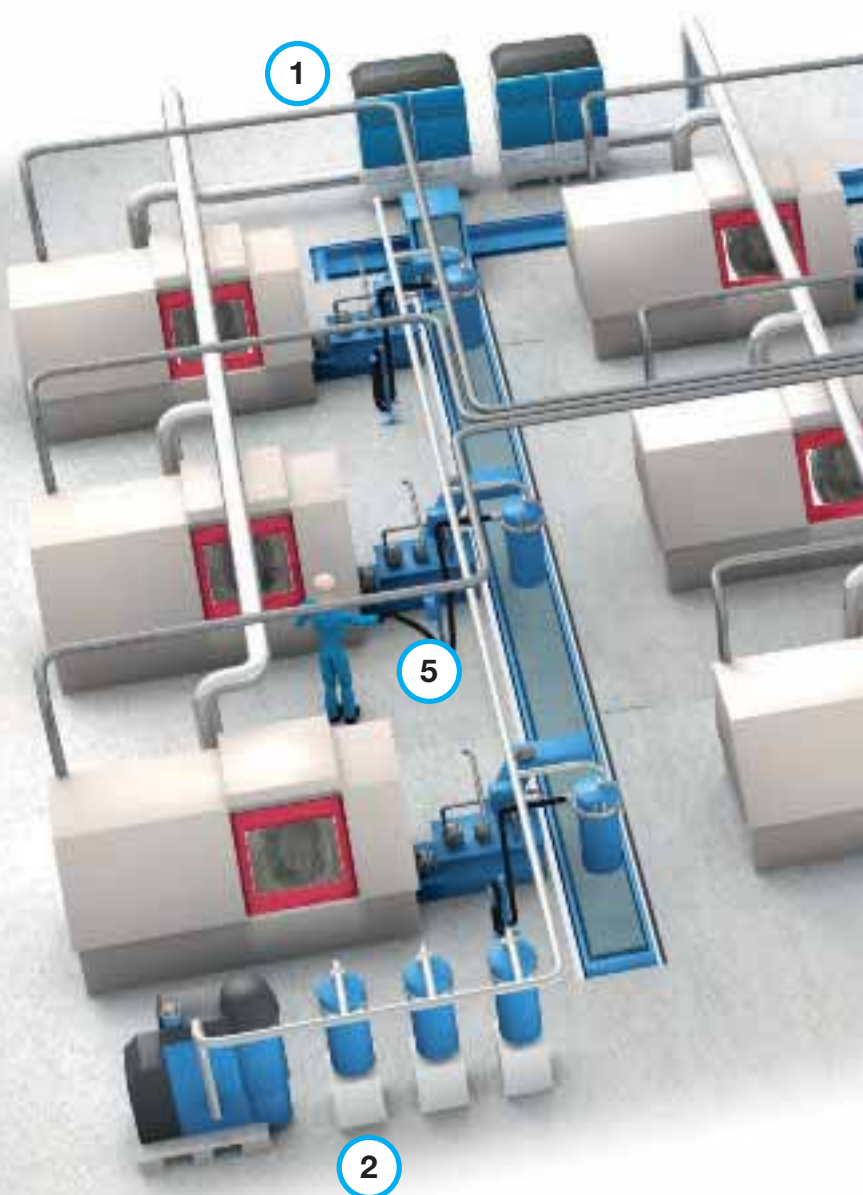
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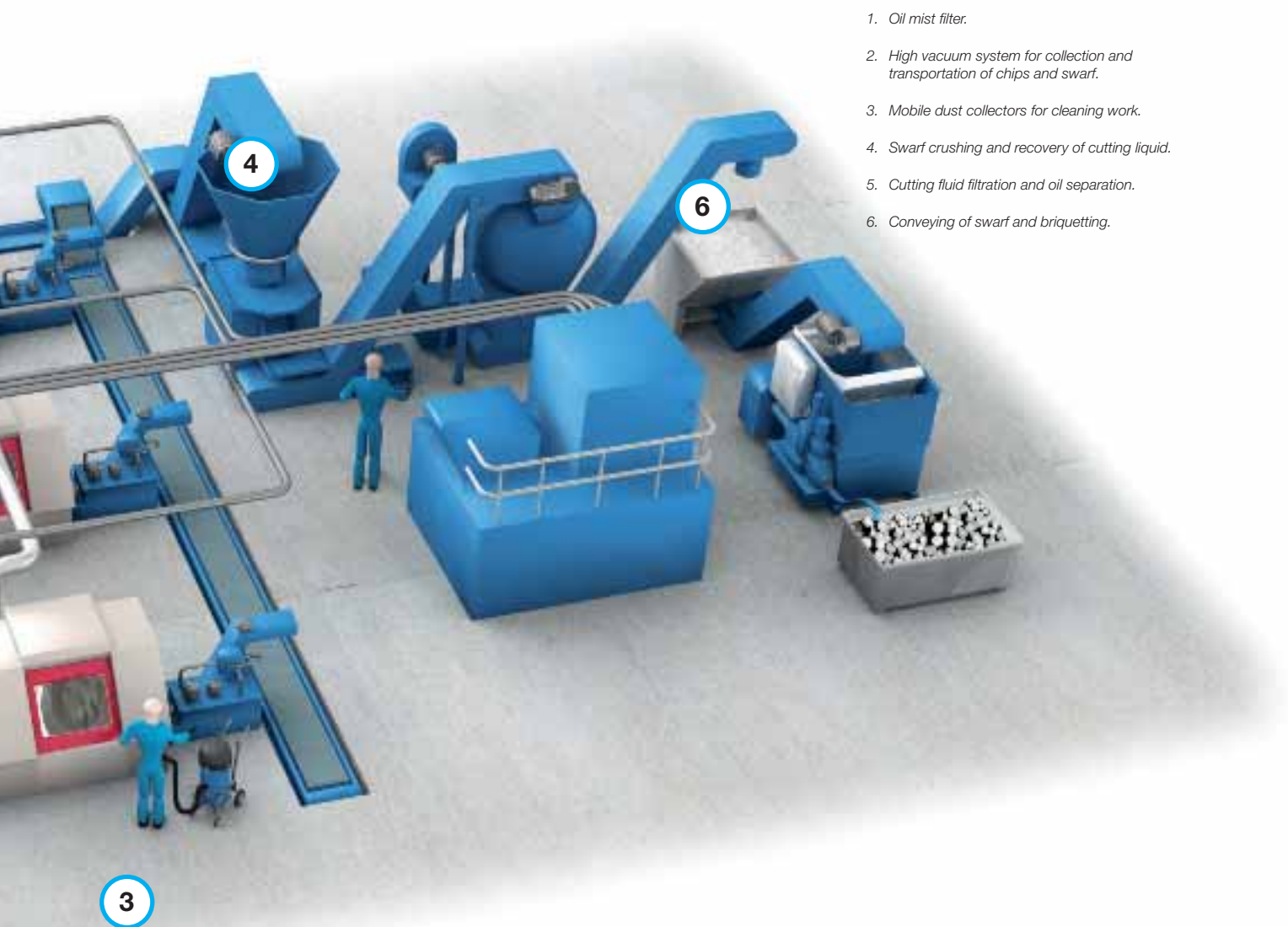
# Complete solutions for machining and metal fabrication.

Nederman offers products and systems that contribute to a good working environment, efficient production and high quality in turning, milling, drilling and cutting. When metals are worked mechanically, waste products are produced in the form of swarf which mixes with the cutting fluid or coolant in the processes. If the materials are worked at high temperatures, oil mist may also form, which is hazardous to health and may give rise to dirty surfaces or damage electronic components.

Solutions from Nederman make it possible to collect waste products and separate cutting fluid or coolant from the swarf that forms as the metal is processed, directly at the workstations. The waste can then be recovered, briquetted and sold for recycling. Cutting oils can also be reused, providing cost savings and better use of resources. Nederman offers solutions for recycling thus providing cost savings while reducing the impact on the environment.







1. Oil mist filter.
2. High vacuum system for collection and transportation of chips and swarf.
3. Mobile dust collectors for cleaning work.
4. Swarf crushing and recovery of cutting liquid.
5. Cutting fluid filtration and oil separation.
6. Conveying of swarf and briquetting.

#### QUICK FIND

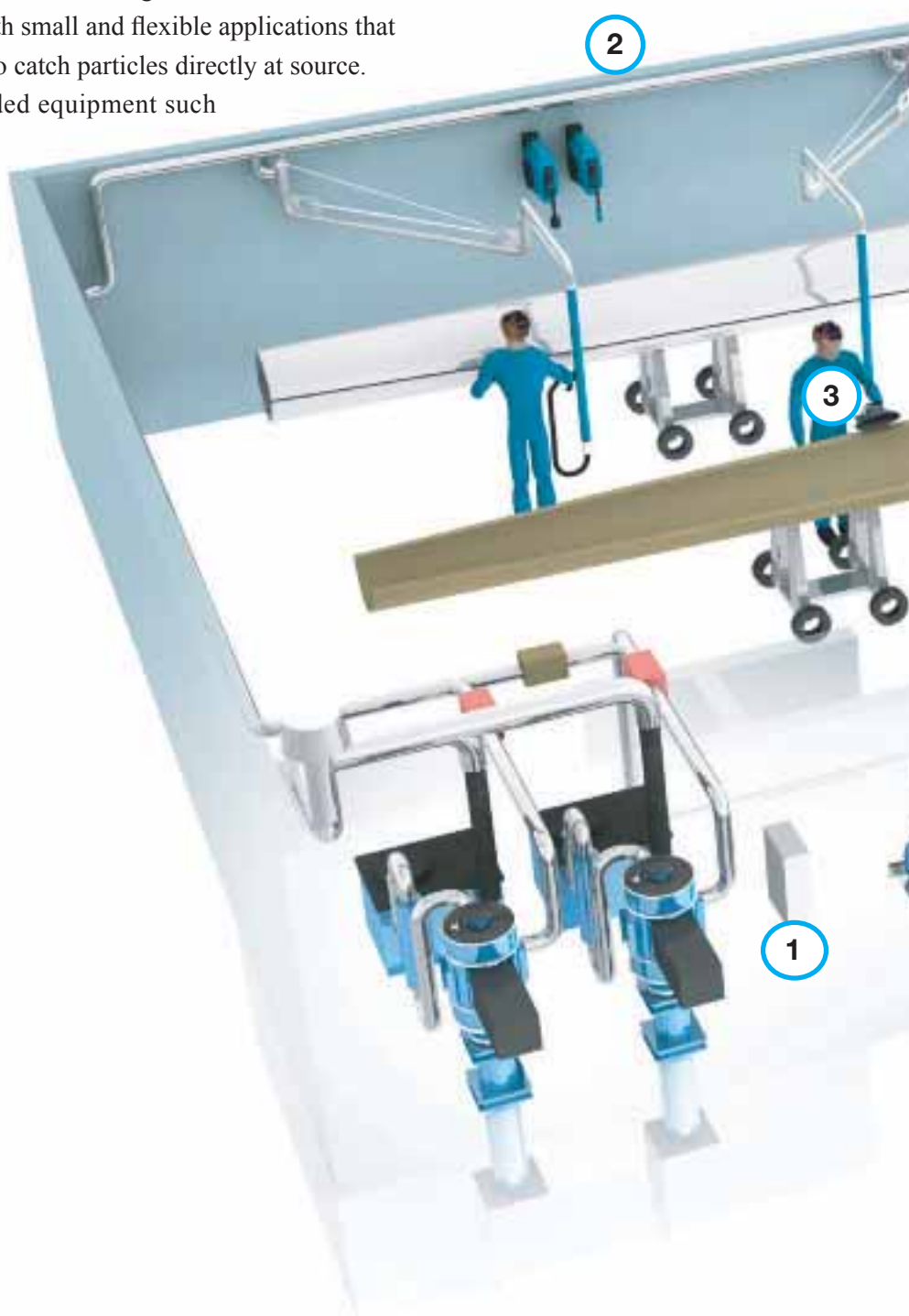
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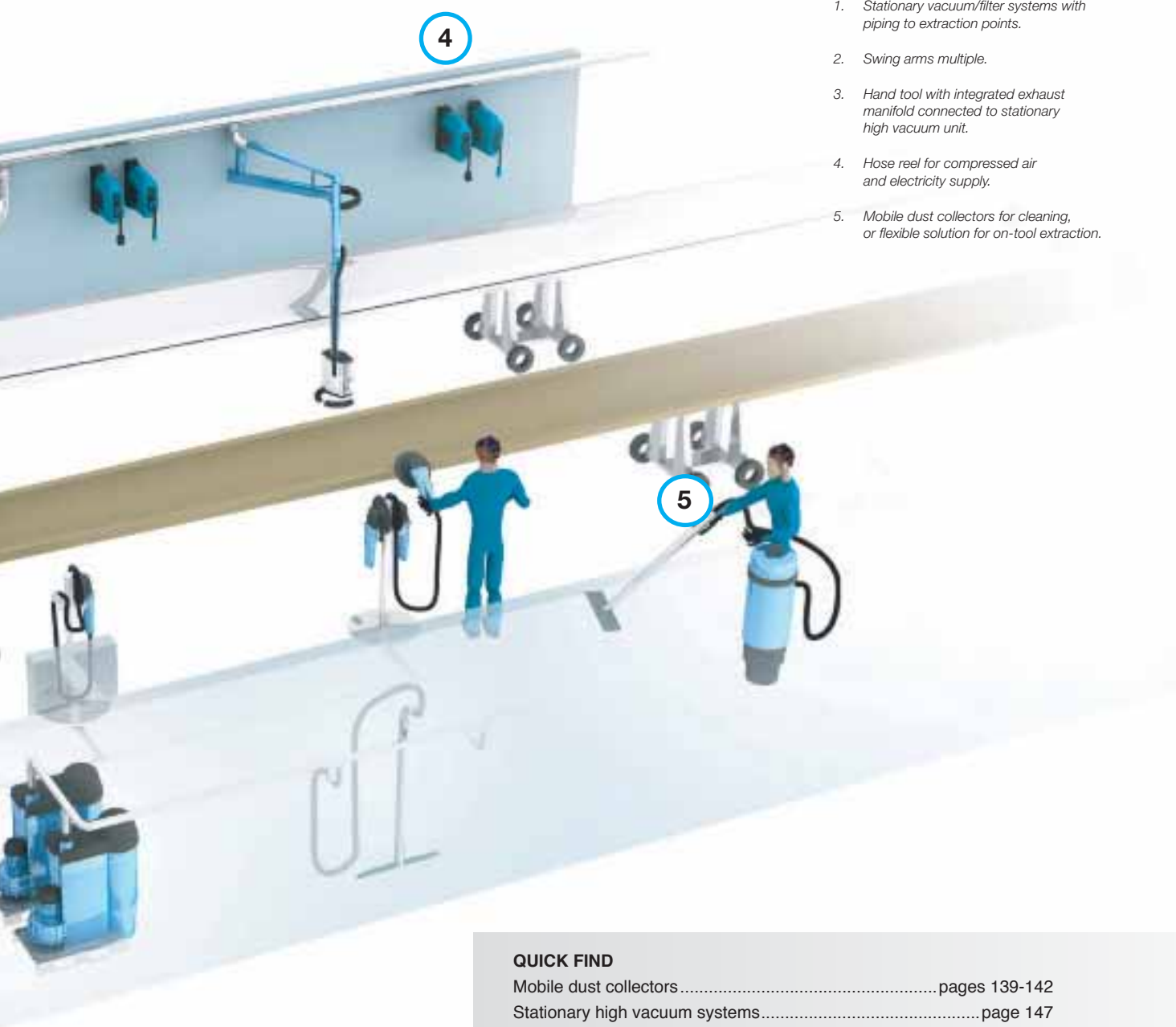
# Complete solutions for dust extraction when working with plastics and composites.

More and more advanced products are made out of composites based mainly on plastics, aluminium, glass- and carbon fibre. Handling the particles produced from processing these materials efficiently is very important for productivity, quality and the working environment.

Nederman offers efficient systems with small and flexible applications that can be connected to individual tools to catch particles directly at source.

The range is supplemented with added equipment such as cable reels, suspension systems and arms for easy and ergonomic to use. Nederman also supplies advanced filters, containers and systems to handle combustible substances.



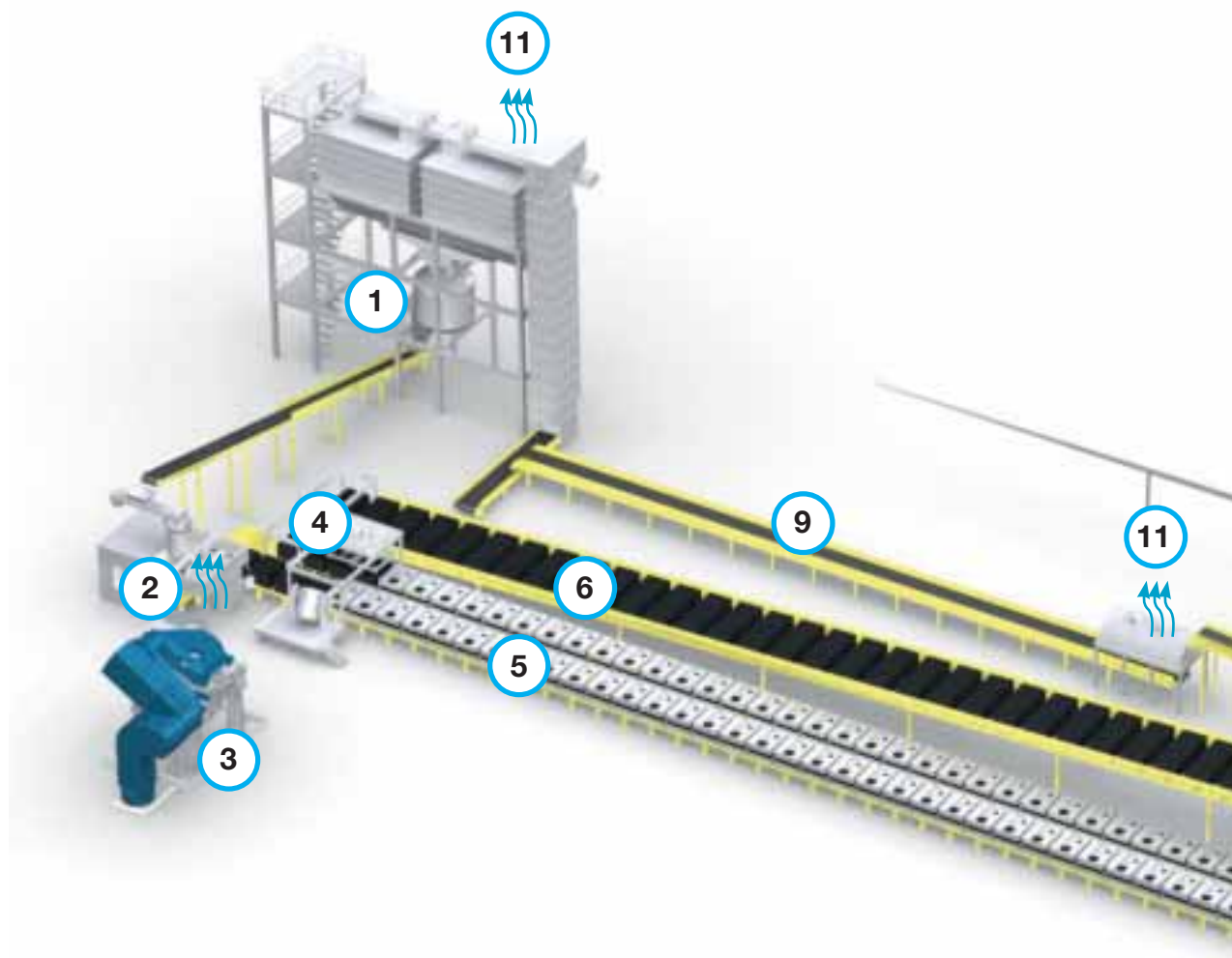


1. Stationary vacuum/filter systems with piping to extraction points.
2. Swing arms multiple.
3. Hand tool with integrated exhaust manifold connected to stationary high vacuum unit.
4. Hose reel for compressed air and electricity supply.
5. Mobile dust collectors for cleaning, or flexible solution for on-tool extraction.

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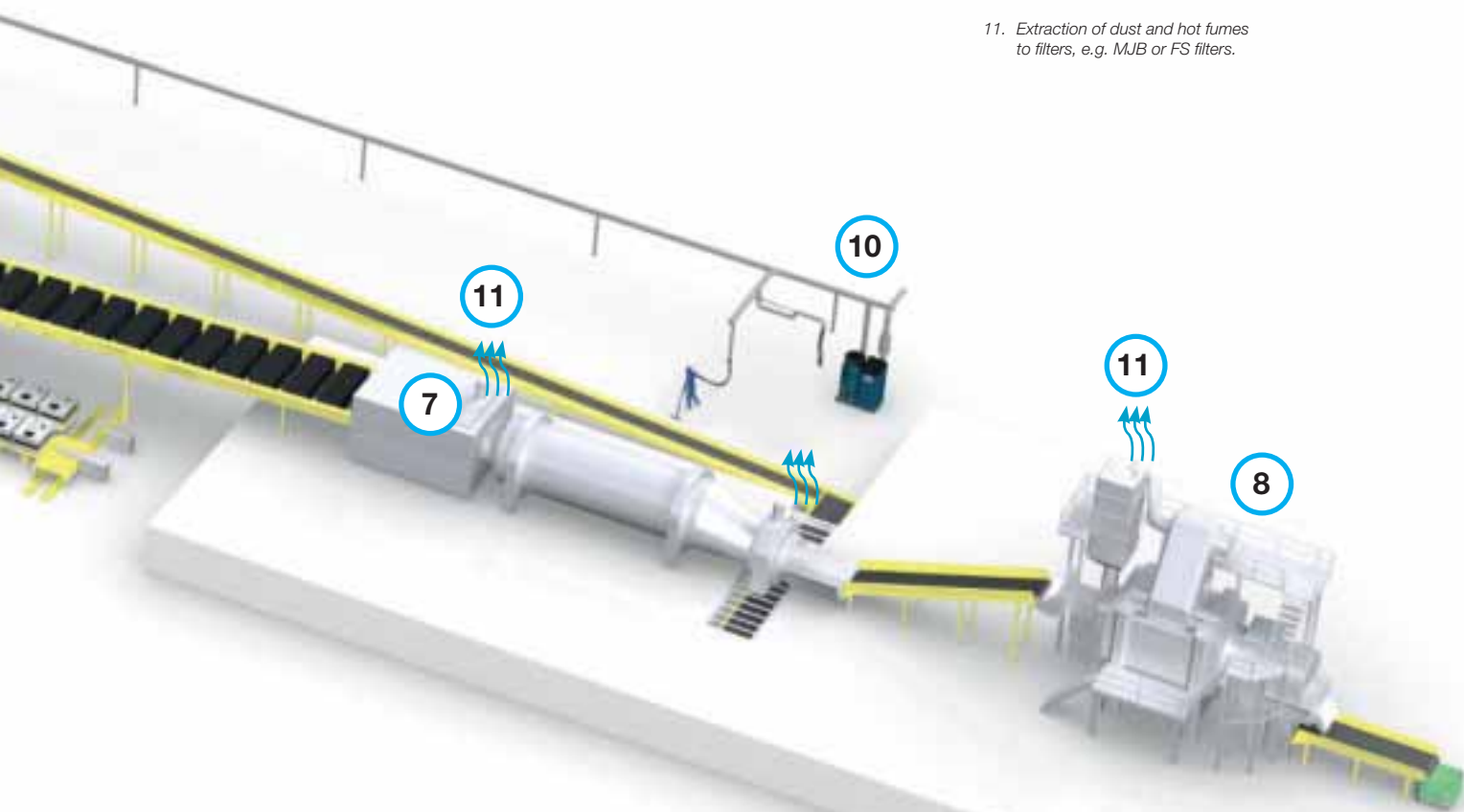
## Complete solutions for foundries.



Nederman offers a wide range of solutions for foundries and smelters works. This covers both large filter systems for gases and for recovering casting sand, with additional solutions for high vacuum extraction, blasting of cast material and cleaning. The Nederman range includes everything from individual products to complete installations where we take responsibility for the design, construction and commissioning and service.



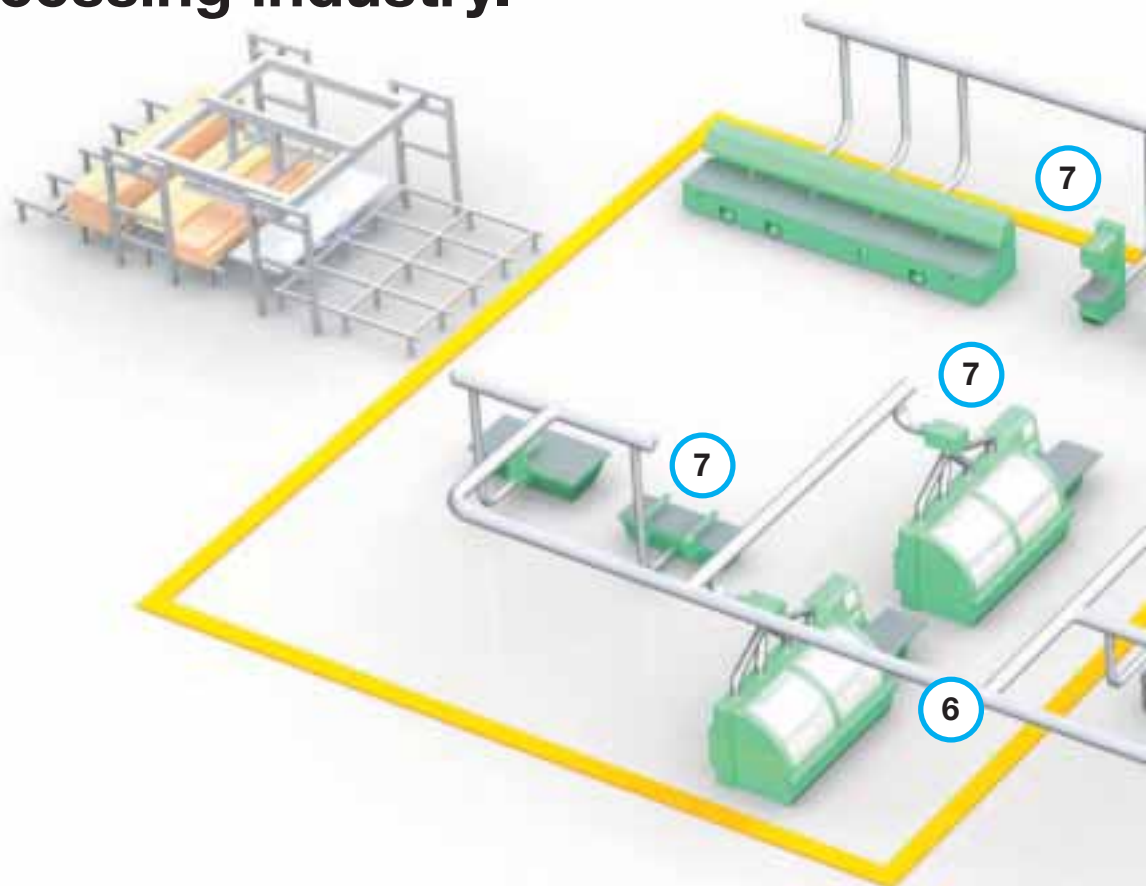
1. Sand preparation.
2. Moulding.
3. Close capture hood for extracting hot fumes from the furnace during charging, melting and pouring.
4. Moulds, foundry equipment.
5. Pouring line.
6. Cooling line.
7. Knock-out.
8. Shot blasting.
9. Recycling of moulding.
10. Vacuum cleaning system.
11. Extraction of dust and hot fumes to filters, e.g. MJB or FS filters.



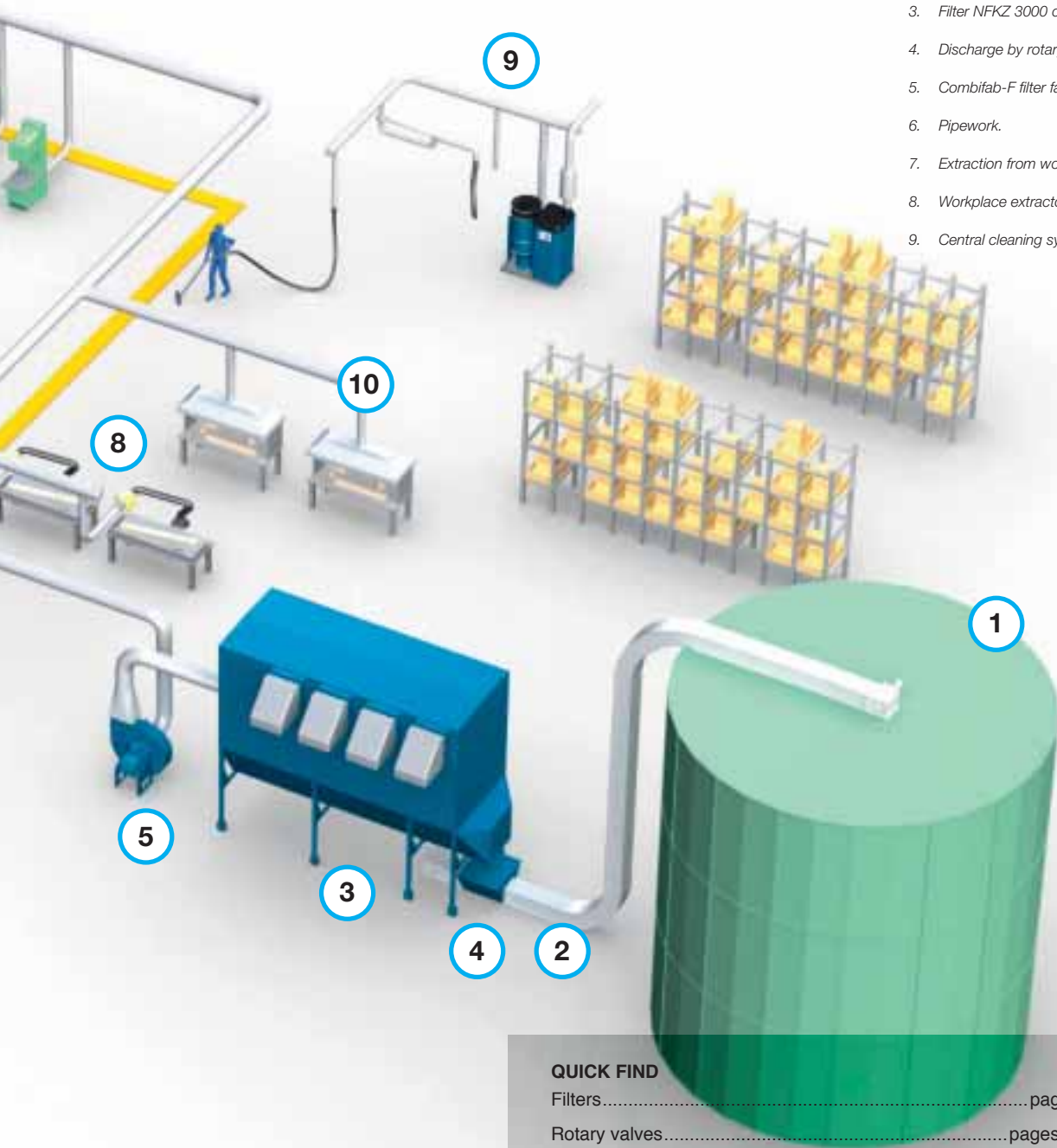
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## Complete solutions for the wood processing industry.



Woodworking in the form of sawing, planing, sanding and other processes produce very large quantities of shavings and polishing dust. To handle these large volumes of material in a safe and efficient manner, Nederman offers a wide range of products and systems. These mainly consist of filters, duct systems, fans, conveyors, silos and automated control systems. Apart from a good working environment, the systems make it possible to recycle residual products, which represent a high value. Converted into pellets, the waste products can be used for energy production by customers or sold as raw materials.



1. Silo.
2. Conveyor.
3. Filter NFKZ 3000 chain filter.
4. Discharge by rotary valve NRSZ.
5. Combifab-F filter fan.
6. Pipework.
7. Extraction from wood processing machines.
8. Workplace extractor
9. Central cleaning system with L-PAK unit.

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## Nederman Services & Parts

Providing a high level of service to customers is a cornerstone to Nederman's strategy.

This means that we ensure that our customers get the service they need throughout the product lifespan. With us, you have access to a global service organisation with more than 50 years' experience in air filtration.

You also gain access to our original spare parts with the option of preferential service contracts to safeguard the operation of your equipment. Our extensive knowledge and long experience means that we can predict which components and parts need to be exchanged and which consumables and spare parts you may need to keep in stock.

### Nederman

#### Parts

Our accessories, consumable and spare parts are kept in stock and can be delivered directly to you right away. In this catalogue, you will find a selection of consumables and critical spare parts. Learn more at our website.

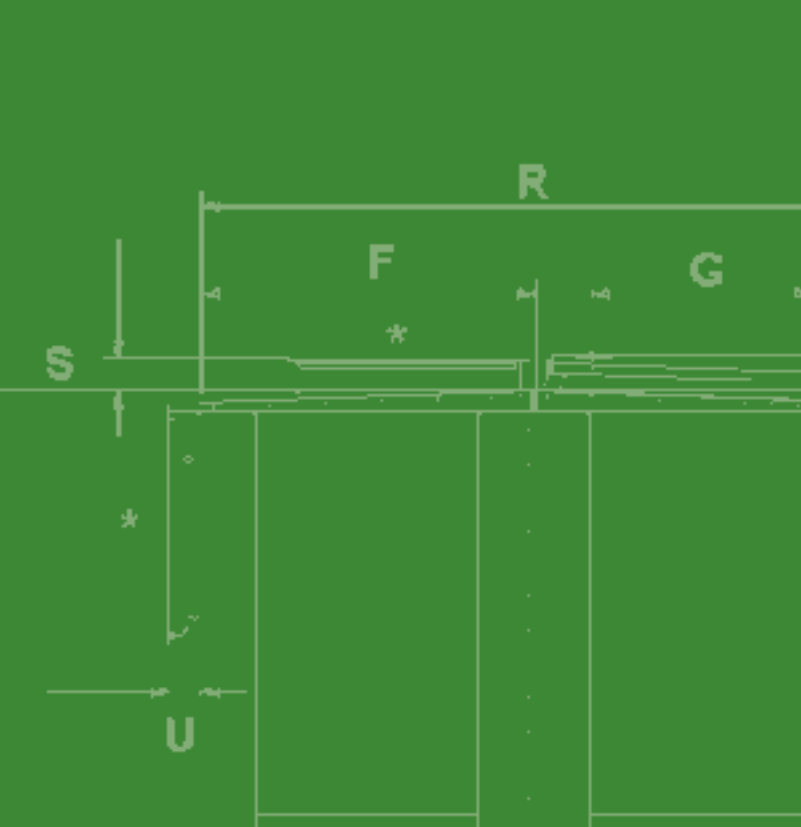
### Nederman

#### Services

With a Nederman service and maintenance contract, you will never need to worry about costly downtime or production stoppages. We ensure that your equipment performs at all times and that safety and the environment are preserved.

Nederman service and maintenance contracts can be customised to suit your needs. They can cover everything from regular scheduled checks to major service measures. You choose the service level and the equipment you want our commitment to cover. Inspections, maintenance and service calls are performed at the agreed intervals and at times that suit you. Our job is to ensure that your equipment gives the maximum benefit.





## We have a wide range of filters for most types of dust.

Bag filters have a wide range of industrial applications; from wood chips to any kind of fumes. These filters can basically deal with all types of dust. We offer a large assortment of round bag and flat bag filter products and systems.

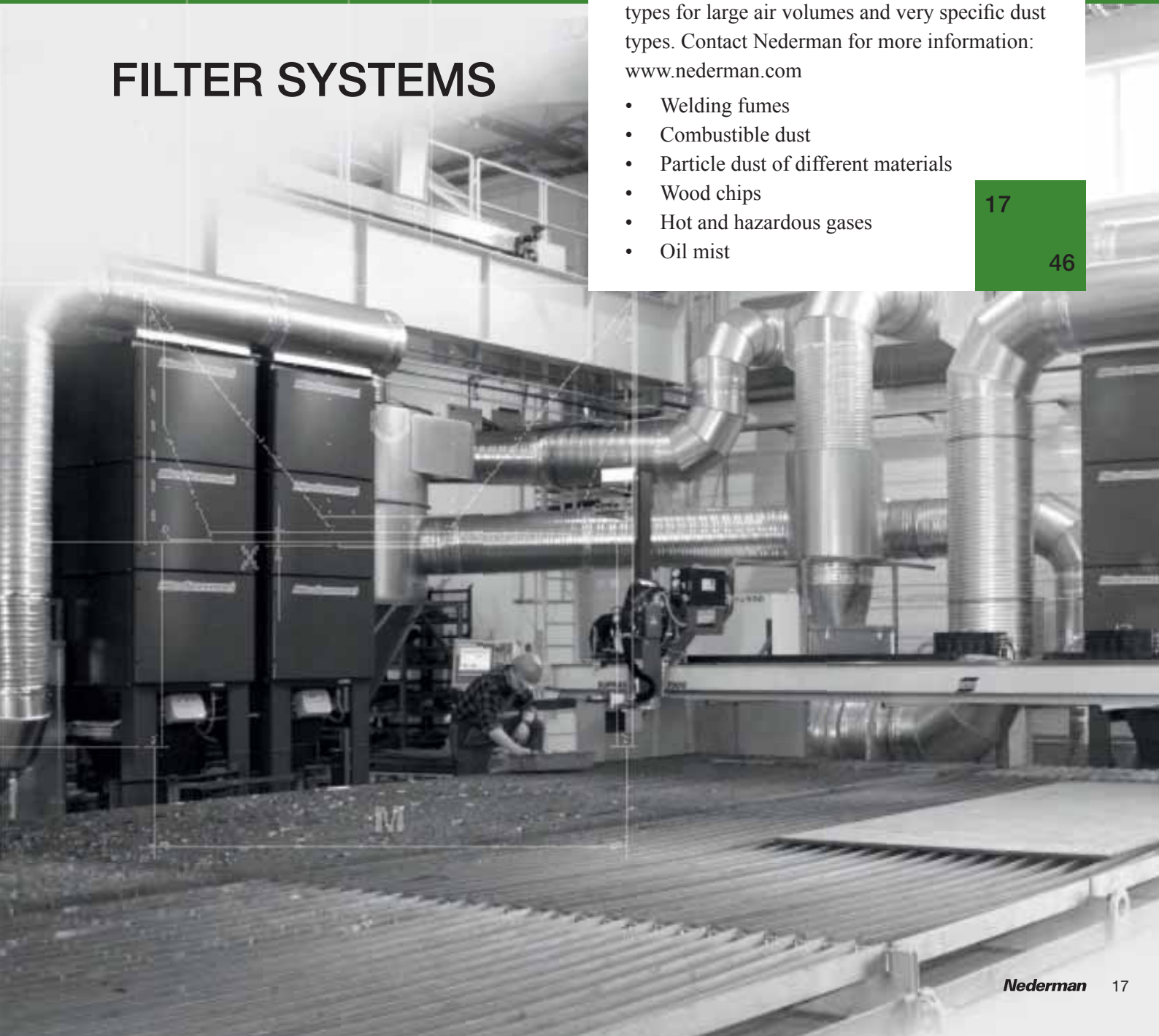
Cartridge filters have a large filter area in relation to their size and work with dry and fine dust. They can be fitted with different kinds of cartridge filters. Cassette filters have a large filter area and work extremely well when there is low to medium dust concentration in the industrial process filtration and dust collection application. There are also filter types for large air volumes and very specific dust types. Contact Nederman for more information: [www.nederman.com](http://www.nederman.com)

- Welding fumes
- Combustible dust
- Particle dust of different materials
- Wood chips
- Hot and hazardous gases
- Oil mist

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## FILTER SYSTEMS



# PRODUCT GUIDE

## Filter systems



Filter type	FS/FD	NFPZ3000	NFSZ3000	NFKZ3000	FMK	FMC	AUTO M-Z	MJB	MJC	CJB CYCLONE FILTER	SILOSAFE 24
<b>Type of industry</b>	Chemical, Foundry, Metal smelters, Asphalt, Incineration	Wood, paper	Wood, paper	Wood, paper	Metal dust, Minerals, Chemicals, Welding fume	Chemicals, minerals, Metal dust, Welding fumes	Wood, chemicals, Minerals, Metal dust	Chemical, Foundry, Metal smelters, Mangler, Asphalt, Incineration	Chemicals, minerals, Metal shavings, Welding fumes	Wood, chemicals, Metal shavings, Welding fumes	Silos and conveyors
<b>Air volume, m³/hr</b>	5000-500000	1500-33000	1500-65000	1500-65000	1800-105000	3200-21200	100-11500	750-300000	2300-70000	7500-160000	1500-2300
<b>Filter surface, m²</b>	82-2400	20-340	20-510	80-5100	15-88	32-212	7,5-90	7-315	48-739	68-763	24
<b>Max. dust collection g/m³</b>	>300	100	>300	>300	40	10	10	1000	10	>300	> 20
<b>Filter material</b>	Flat bags	Tubular bag	Tubular bag	Tubular bag	Cassette	Cartridge	Multi V-bags	Tubular bag	Cartridge	Tubular bag	Cartridge
<b>Cleaning method</b>	Reverse air/ Reverse jet	Regeneration fan	Regeneration fan	Regeneration fan	Compressed air cleaning	Compressed air cleaning	Vibration cleaning	Compressed air cleaning	Compressed air cleaning	Compressed air cleaning	Compressed air cleaning
<b>Cleaning</b>	Online	During operation	During operation	During operation	During operation	During operation	During downtime	During operation	During operation	During operation	During operation
<b>Explosion class</b>	St3	St1-St2	St1-St2	St1-St2	St1-St3	St1-St3	St1-St3	St1-St3	St1-St3	St1	St1-St3
<b>Filter type</b>	Negative pressure	Overpressure/ vacuum	Overpressure/ vacuum	Overpressure/ vacuum	Vacuum	Vacuum	Overpressure/ vacuum	Overpressure/ vacuum	Overpressure/ vacuum	Overpressure/ vacuum	Overpressure
<b>Position</b>	Inside/ Outside	Outdoors	Outdoors	Outdoors	Indoors / Outdoors	Indoors / Outdoors	Indoors / Outdoors	Indoors / Outdoors	Indoors / Outdoors	Outdoors	Outdoors
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Filter type	FILTERMAX C25	FILTERMAX F	FILTERMAX DF	MFS - Modular filter system	MFS - Modular filter system	NOM 4	NOM 11	NOM 18 and 28	NOM 112
<b>Type of industry</b>	Minerals, metal dust, welding fumes	Minerals, metal dust, welding fumes	Minerals, metal dust, welding fumes	Welding fumes and dust	Smells, gases, smoke and organic solvents	Oil mist	Oil mist	Oil mist	Oil mist
<b>Air volume, m³/h</b>	2500	3000-9000	4000-12000	1000-	500-	400	1100	1800-2800	10000
<b>Filter surface, m²</b>	48	60-180	72-216	18	15 kg activated carbon	3	8.5	14-21	84
<b>Max. dust collection g/m³</b>	10	10	10	-	-	-	-	-	-
<b>Filter material</b>	Cartridge	Cartridge	Cartridge	Cartridge	Activated carbon	Cartridge	Cartridge	Cartridge	Cartridge
<b>Cleaning method</b>	Compressed air cleaning	Compressed air cleaning	Compressed air cleaning	Disposable filter	Disposable filter	-	-	-	-
<b>Cleaning</b>	During operation	During operation	During operation	-	-	-	-	-	-
<b>Explosion class</b>	-	-	-	-	-	-	-	-	-
<b>Filter type</b>	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum	Vacuum
<b>Position</b>	Indoors	Indoors / Outdoors	Indoors / Outdoors	Indoors	Indoors	Indoors	Indoors	Indoors	Indoors
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# FS Filter Flat Bag filter type FS

The functional unit of a FS flat bag type filter comprises of the hood for dust-laden gas, the filter casing, the dust collection hopper with support structure and discharge unit.

The filter flat bags are arranged horizontally in the dirty gas chamber and the connection with the slotted wall by a clamping frame with leg springs is airtight. Flow direction through the filter is from top to bottom (down-flow principle).

The gas enters the clean gas chamber of the filter through the flat bag. During this process, the dust is held back by the filter media and forms a filter cake which is important for filtration. The fully programmable dedusting process is activated after a specific time period and the dust is cleaned out of the filter flat bag. The dust falls into the collecting hopper and is conveyed out via the dust conveyor unit.

## Advantages

The FS Filters are suitable for all industries with hot gas applications such as, aluminum, foundries, asphalt as well as cold applications like metal dust, quarries etc.

- Air volume per filter housing 10.000 - 250.000 m<sup>3</sup>/h.
- Filtering surface per filter house 100 2500 m<sup>2</sup>.
- Modular construction.
- Careful cleaning.
- Low residual dust content due to special filter media.
- Usable for temperatures up to 250 °C.

## Intelligent air cleaning system

The cleaning air fan and valve are located outside the filter. The cleaning air valve is connected to the mobile cleaning nozzle via a flexible hose. The cleaning nozzle is driven by a maintenance free rope-and-chain drive. It is positioned through the indexing mechanism.

Use of the medium-pressure system effectively eliminates peak dust emissions during the cleaning cycle. The mechanical element for the indexing mechanism is integrated into the deflecting station.



## Offline effect

- Low difference between gross and net surface.
- No dust is drawn to the neighbour bag.
- Low residual dust content.
- Very high efficiency in collecting.
- Fine dust (PM10, PM 2,5).

## Technical parameters

- Preassembly of the filter system in work-shop.
- Compact, modular design.
- Small space requirements.
- Short assembly time = low assembly costs.
- Leak-proof welded construction.
- Low maintenance costs.
- High availability.
- Offline cleaning during full-load operation.

## Custom made filter solutions

Type	Length mm	Surface m <sup>2</sup>	Weight kg
FS 520 /0,75/75 - FS 520/11,00/1100	888 - 12713	102/82 - 1496/1435	2810 - 20890
FS 522 /0,75/90 - FS 522/11,00/1320	888 - 12713	113/91 - 1650/1560	2960 - 21940
FS 620 /0,75/90 - FS 620/11,00/1320	888 - 12713	123/99 - 1796/1698	2950 - 22070
FS 622 /0,75/90 - FS 622/11,00/1320	888 - 12713	135/108 - 1980/1899	3100 -23180
FS 720 /0,75/105 - FS 720/11,00/1540	888 - 12713	143/115 - 2095/1981	3090 - 23260
FS 722 /0,75/105 - FS 722/11,00/1540	888 - 12713	158/127 - 2310/2184	3250 - 24430
FS 725 /0,75/105 - FS 725/11,00/1540	888 - 12713	182/145 - 2664/2519	3740-28090

1 2 3 4 5

Legend filter type:

- 1 Product name / Cleaning methode
- 2 Quantity of superimposed filter ranges
- 3 Length of the filter bags
- 4 Filter size
- 5 Quantity of bags

## FD Filter Flat bag filter type FD



### Technical parameters

- Preassembly of the filter system at works.
- Compact, modular design.
- Small space requirements.
- Short assembly time = low assembly costs.
- Leak-proof welded construction.
- Low maintenance costs.
- High availability.

FD Filters are suitable for all types of industries where special requirements have to be met.

The FD filters combines the advantages of several filter technologies.

The FD is a reverse jet cleaned alternative to the FS reverse air filter, particularly useful where the higher quantity of cleaning air injected by the FS could adversely affect the process gas conditions. Based closely upon the FS, the FD features a down flow design, dirty gas entering via an inlet hood at high level, passing downwards across the horizontal bags where the dust is separated from the gas. Most of the dust then drops into the hopper. The cleaned gas passes through the bags upon the surface of which a filter cake is deposited, then into the clean gas chamber from where it is extracted at low level.

### Reverse jet cleaning

This is affected by separate diaphragm values fixed about each vertical row of filter bags supplied by a distribution manifold horizontally mounted at high level. A pulse of cleaning air is injected via a vertical jet tube into each row of bags in turn. Operation of the cleaning mechanism is programmable according to requirements.

- Air volume per filterhousing 2.500 - 120.000 m<sup>3</sup>/h.
- Filtering surface per filterhousing 18 bis 1102 m<sup>2</sup>.
- Modular construction.
- Careful cleaning.
- Low residual dust content due to special filtermedia.
- Usable for temperature up to 250 °C.
- For sticky dust.

Type	Length mm	Surface m <sup>2</sup>	Weight kg	Average compressed air consumption Nm <sup>3</sup> /h
FD 313/0,6/18 - FD 313/0,6/30	611	18 - 30	1000	8,29 - 11,31
FD 413/0,75/90 - FD 413/11,00/1320	886	32 - 60	1200	9,95 - 13,83
FD 513/0,75/90 - FD 513/11,00/1320	1161	65 - 100	1600	16,13 - 19,40
FD 520/0,75/75 - FD 520/6,75/675	888 - 7818	102 - 918	2950 - 11950	17,23 - 52,75
FD 620/0,75/90 - FD 620/6,75/810	888 - 7818	123 - 1102	3500 - 14300	17,23 - 52,75

Tailor made solutions are also possible.



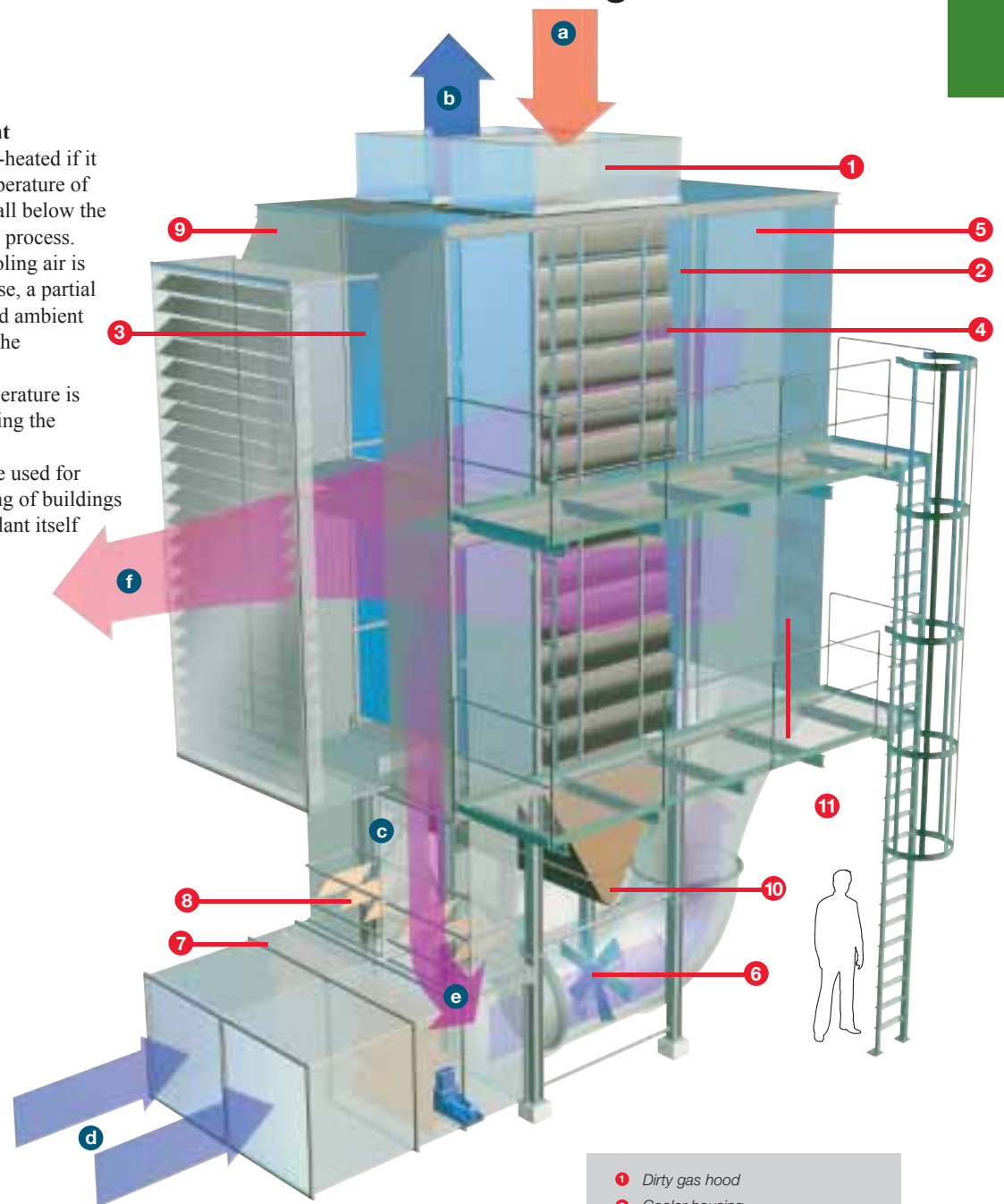
# Heat exchanger KU Coolers

## The danger of the dew point

The cooling air has to be pre-heated if it is likely that the surface temperature of the cooling elements could fall below the dew point during the cooling process. Unlike KS, preheating of cooling air is provided with KU. In this case, a partial flow of heated cooling air and ambient air are mixed and sucked in the cooling air fan.

By pre-selected mixing temperature is regulated by opening or closing the fresh-air valve.

The heated cooling air can be used for different purposes like heating of buildings or for the flue gas cleaning plant itself (conveying air, cleaning air).



- 1 Dirty gas hood
- 2 Cooler housing
- 3 Slotted wall with clamping frame
- 4 Cooling element
- 5 Cooling air injection box
- 6 Cooling air fan
- 7 Motorized butterfly valve
- 8 Manually activated butterfly valve
- 9 Cooling air exhaust box
- 10 Support structure with dust collecting hopper and evacuation screw
- 11 Access and maintenance platform with ladder

- a Dirty gas inlet
- b Dirty gas outlet
- c Dust outlet
- d Cooling air inlet
- e Preheated cooling air
- f Cooling air outlet

## Technical parameters:

- Cooling of hot process gases.
- Modular design.
- Short assembly times = low assembly costs.
- Heat recovery.
- Reliability.
- Low maintenance.
- Easy to exchange cooling elements.
- Leak-proof welded construction.
- With cooler cleaning for sticky dust.

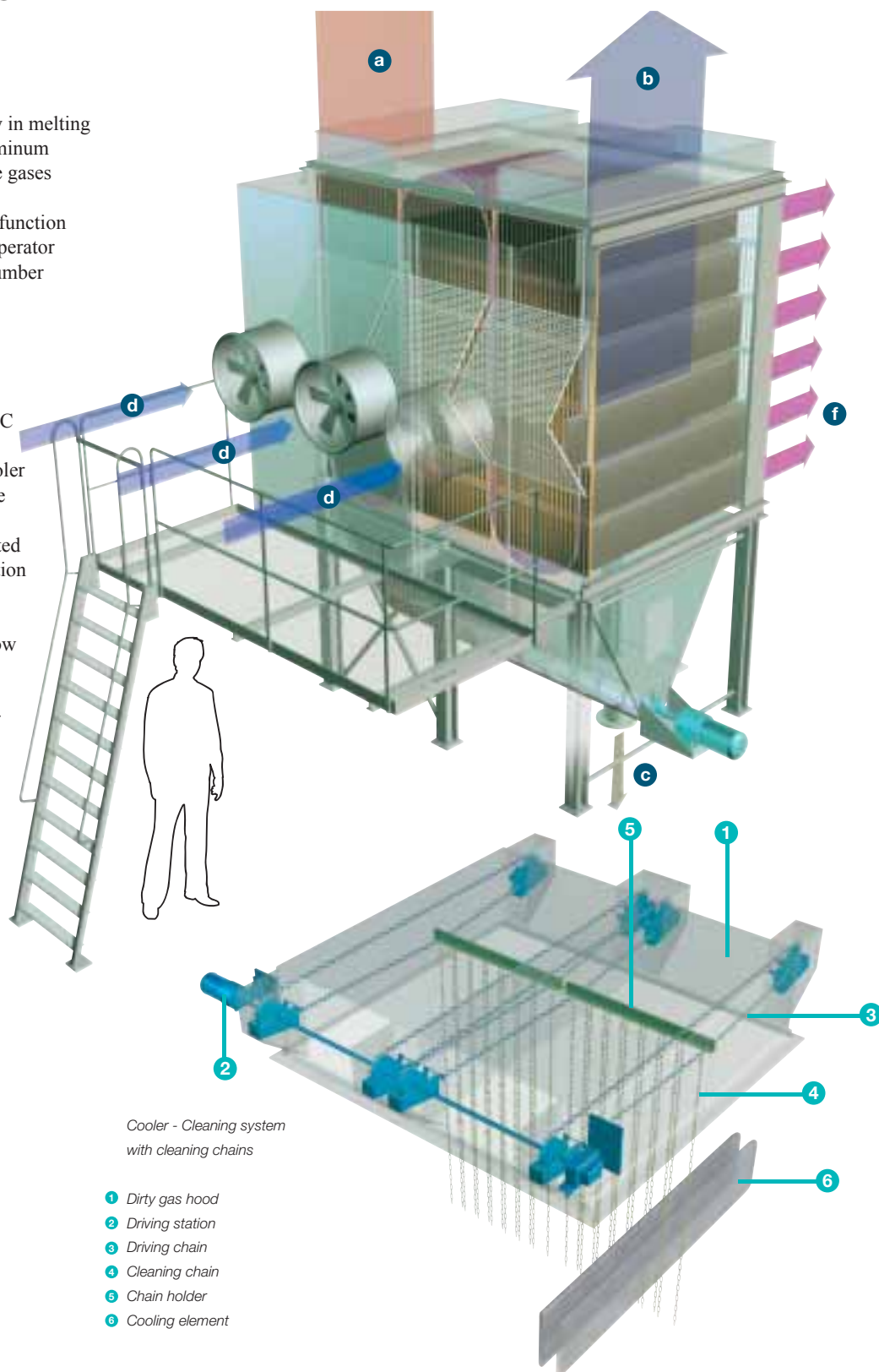
# Heat exchanger KS Coolers

Some process gases, especially in melting of ferrous, nonferrous and aluminum are too hot to be filtered. These gases must be cooled.

The KS Coolers combines the function of a heat exchanger and pre-separator in a single unit, that offers a number of advantages:

- Low investment costs
- Low running costs
- Low maintenance costs
- Modular construction
- Usable for temp. up to 550 °C

The hot gases flow into the cooler vertically downwards along the outside of cooling elements. The gases are deflected through 180° and a pre-separation of the coarse dust takes place. Cooling air fans blow ambient air crossways to the hot-gas flow through the cooling elements. A temperature control element switches the necessary number of cooling air fans on.



Type	Length mm	Surface m <sup>2</sup>	Weight kg
KS 520/1/60/1 - KS 520/15/900/15	788 - 11856	90 - 1352	2350 - 25150
KS 620/1/72/1 - KS 620/15/1080/15	788 - 11856	108 - 1620	2792 - 30125
KS 622/1/72/1 - KS 622/15/1080/15	788 - 11856	119 - 1785	3015 - 32535
KS 720/1/84/1 - KS 720/15/1260/15	788 - 11856	126 - 1890	3257 - 35145
KS 722/1/84/1 - KS 722/15/1260/15	788 - 11856	139 - 2082	3583 - 38659

# NFPZ3000 Bag filter with container

## Design

- Max. working temp.: 75 °C.
- Max. vacuum: 5000 Pa.
- Maximum overpressure: 800 Pa.
- Inlet through filter hopper or inlet module.
- Regeneration fan for reverse air cleaning of filter bags, can be mounted on side or on roof.
- Combined inspection and explosion relief panel.
- Available in two widths, type E and J.
- Filter surface:  
HJ: 85 m<sup>2</sup> / per module  
LJ: 40 m<sup>2</sup> / per module  
HE: 42 m<sup>2</sup> / per module  
LE: 20 m<sup>2</sup> / per module

## Finish

- Galvanised steel sheet.

## Optional

- Inlet module.
- Extended telescopic leg with cross-brace.
- A selection of filter materials for different types of dust to be filtered.

## Accessories

- Regeneration fan: 800 x 800 mm, 1.1 kW.
- Regeneration fan: 800 x 800 mm, 2.2 kW.
- Regeneration fan: 600 x 600 mm, 1.1 kW.
- Inspection platform with ladder.
- Inlet with blowback damper.
- CARZ back-pressure flap valve.
- Return air components for overpressure/vacuum (ducts, s/v dampers, fire dampers, explosion relief, filters etc.)
- Shaker cleaning

## When ordering NFPZ3000, please specify:

- Zone classification for positioning installation (non-zone, zone 21 or zone 22).

The NFPZ3000 filter is designed for small and medium-sized woodwork shops producing limited volumes of material.

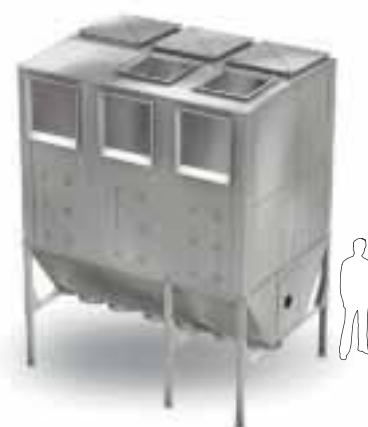
It is a modular filter made of galvanised steel sheet with a telescopic support, suitable for outdoor use.

Available in two different widths, type E (1200 mm) and type J (2400 mm). Each module of the filter design is fitted with a combined inspection and explosion relief door. Filter cleaning with regeneration fans. The filter is fitted with the unique patented SUPERBAG. The material removed is separated in the filter hopper and collected in metal containers.

The filter can be supplied either for continuous operation or with a break to clean the filter bags every four hours.

## Benefits

- Handles air volumes from 1 500-33 000 m<sup>3</sup>/h.
- ATEX-certified for St1 and St2 dust with a Kst value up to 300 bar m/s.
- Compact design.
- Suitable for handling large volumes of air with limited material contamination.
- Designed for continuous operation or operation with 15 minute breaks for cleaning, approx. every four hours.
- For mounting on the ground.
- Overpressure or vacuum versions up to 5 000 Pa.
- Explosion relief upwards or sideways.
- Powerful online cleaning with efficient regeneration fans.
- Patented antistatic polyester SUPERBAGs.
- Easy to install on site and extend when required.
- Low energy consumption.



## Dimensions

(example – NFPZ3000 3 HJ for St2 dust)



## Marking

NFPZ3000 filter body for dust type St1 for installation in non-zone is marked:  
CE 1180 (Ex) II D St 1

For dust type St1 and St2, the filter body is marked: CE 1180 (Ex) II D St2

Marking based on Baseefa 06 ATEX 0068 product certificate.

Explosion relief doors are marked:

CE 1180 (Ex) II D



ATEX (Ex) II D St2 certified equipment under Baseefa 06 ATEX 0068

Type	A#	B	D***	F	G	H	I	J**	K**	L	M	O	P**	Q	R	S	U	W	X
E	2400	1106	485	1200	800	3600	720	2937	3737	see below	1121	777	2960	135	1200	115	115	47	23
J	2400	1106	485	1200	800	3600	720	3420	4220	see below	2321	1260	2960	135	2400	115	115	47	23

# Optional 1200 mm. \* Optional outlet position/regeneration fan 800 x 800 or 600 x 600 mm. (L version: not on door side).

All dimensions in mm\*

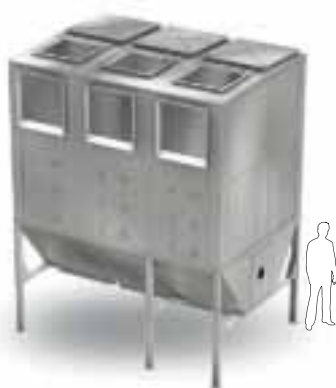
\*\* Height of L version – reduce dimension by 1440 mm. \*\*\* 400 mm over inside bottom.

L – telescopic filter stand		
Type	Min. adjustment	Max. adjustment
L = 1196	155	850
L = 1596	555	1250
L = 2195	1155	1850
L = 2596	1555	2250

Overpressure filter St1				
Filter type	Version	No. of modules	Total filter surface	Dust container
NFPZ3000	HE	1 module	42 m <sup>2</sup>	included
NFPZ3000	HJ	1 module	85 m <sup>2</sup>	included
NFPZ3000	HJ	2 modules	170 m <sup>2</sup>	included

Can be pre-assembled in 2 parts, excl. blowback damper and regeneration fans.

# NFSZ3000 Bag filter with rotary valve or screw conveyor



The NFSZ3000 filter is designed for medium air volumes and can handle large material concentrations.

It is a modular filter made of galvanised steel sheet. Filter has telescopic support and is suitable for outdoor use.

Filter available in two widths, type E (1200 mm) and type J (2400 mm). Each module of the filter design is fitted with a combined inspection and explosion relief door. Filter cleaning with regeneration fans. The filter is fitted with the unique patented SUPERBAG.

The medium-sized/large particles are separated in the filter hopper and the inlet section (optional), and the air is then distributed to the filter bags. The collected material is discharged via the rotary valve. The rotary valve is used for non-pressurised material discharge to a silo, container or separate transport system.

The filter can be supplied either for continuous operation or with a break to clean the filter bags every four hours.

## Benefits

- NFSZ3000 with rotary valve or screw conveyor handles air volumes from 1 500-65 000 m<sup>3</sup>/h.
- Wide range of rotary valves/screw conveyors for material discharge.
- ATEX-certified for St1 and St2 dust with a Kst value up to 300 bar m/s.
- Compact design.
- Suitable for handling large volumes of air with heavy material contamination.
- Designed for continuous operation or operation with 15 minute breaks for cleaning, approx. every four hours.
- For mounting on the ground or on the roof.
- Overpressure or vacuum versions up to 5 000 Pa.
- Explosion relief upwards or sideways.
- Powerful online cleaning with efficient regeneration fans.
- Patented antistatic polyester SUPERBAG filter bags
- Easy to install on site and extend when required.
- Low energy consumption.

## Marking

NFSZ3000 filter body for dust type St1 for installation in non-zone is marked: CE 1180 (Ex) II D St1.

For dust type St1 and St2, the filter body is marked: CE 1180 (Ex) II D St2.

Marking based on Baseefa 06 ATEX 0068 product certificate.

Explosion relief doors are marked:

CE 1180 (Ex) II D.



ATEX (Ex) II D St2 certified equipment under Baseefa 06 ATEX 0068

## Design

- Max. working temp. 75 °C
- Maximum vacuum: 5000 Pa.
- Maximum overpressure: 800 Pa.
- Inlet through filter hopper or inlet module.
- Regeneration fan for reverse air cleaning of filter bags, can be mounted on side or on roof.
- Combined inspection and explosion relief panel.
- Filter surface:  
HJ: 85 m<sup>2</sup> / per module  
LJ: 40 m<sup>2</sup> / per module  
HE: 42 m<sup>2</sup> / per module  
LE: 20 m<sup>2</sup> / per module
- Filter surface up to 510 m<sup>2</sup> per filter.

## Finish

- Galvanised steel sheet.

## Optional

- Inlet module.
- Extended telescopic leg with cross-brace.
- A selection of filter materials for different types of dust to be filtered.

## Accessories

- Regeneration fan: 800 x 800 mm, 1.1 kW.
- Regeneration fan: 800 x 800 mm, 2.2 kW.
- Regeneration fan: 600 x 600 mm, 1.1 kW.
- Inspection platform with ladder.
- Inlet with blow-back damper.
- CARZ back-pressure flap valve.
- Return air components for overpressure/vacuum (ducts, s/v dampers, fire dampers, explosion relief, filters etc.).
- Shaker cleaning

## When ordering NFSZ3000, please specify:

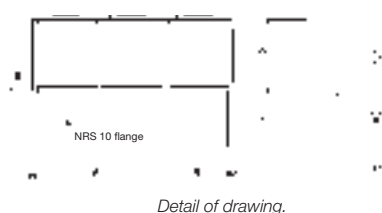
- Zone classification for positioning installation (non-zone, zone 21 or zone 22).

Type	A#	B	C	D***	F	G	H	I	J**	K**	L	M	N	O	P**	Q	R	S	U	W	X
E	2400	1106	952	485	1200	800	3600	720	2937	3737	see below	1121	240	777	2960	135	1200	115	115	47	153
J	2400	1106	952	485	1200	800	3600	720	3420	4220	see below	2321	240	1260	2960	135	2400	115	115	47	153

# Optional 1200 mm. \* Optional outlet position/regeneration fan 800 x 800 or 600 x 600 mm. (LJ version: not on door side).  
 \*\* Height of LJ version – reduce dimension by 1440 mm. \*\*\* 400 mm over inside bottom.

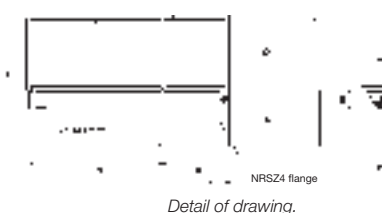
All dimensions in mm\*.

## NFSZ3000 with rotary valve



Detail of drawing.

## NFSZ3000 with screw conveyor



Detail of drawing.

L – telescopic filter stand		
Type	Min. adjustment	Max. adjustment
L = 1196	155	850
L = 1596	555	1250
L = 2195	1155	1850
L = 2596	1555	2250



# NFKZ3000 Chain filter



## Design

- Max. working temp. 75 °C
- Maximum vacuum: 5000 Pa.
- Maximum overpressure: 800 Pa.
- Inlet through filter hopper or inlet module.
- Regeneration fan for reverse air cleaning of filter bags, can be mounted on side or on roof.
- Combined inspection and explosion relief door.
- Filter surface:  
HJ: 85 m<sup>2</sup> / per module  
LJ: 40 m<sup>2</sup> / per module

## Finish

- Galvanised steel sheet.

## Optional

- Inlet module.
- Extended telescopic leg with cross-brace.
- A selection of filter materials for different types of dust to be filtered.

## Accessories

- Regeneration fan: 800 x 800 mm, 1.1 kW
- Regeneration fan: 800 x 800 mm, 2.2 kW
- Regeneration fan: 600 x 600 mm, 1.1 kW
- Inspection platform with ladder.
- Inlet with blowback damper.
- CARZ back-pressure flap valve.
- Return air components for overpressure/vacuum (ducts, s/v dampers, fire dampers, explosion relief, filters etc.)
- Shaker cleaning

## Marking

NFKZ3000 filter body for dust type St1 for installation in non-zone is marked: CE 1180 (Ex) II D St1.

For dust type St1 and St2, the filter body is marked: CE 1180 (Ex) II D St2.

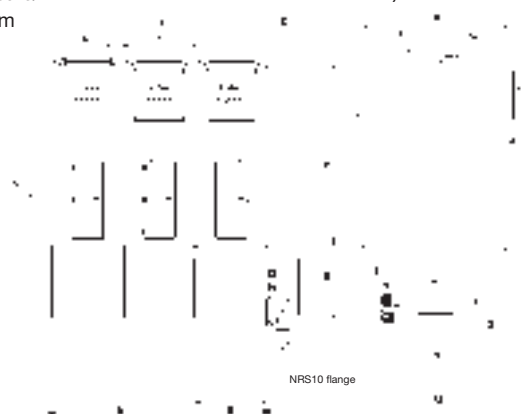
Marking based on Baseefa 06 ATEX 0068 product certificate.

Explosion relief doors are marked: CE 1180 (Ex) II D.

## Design

- Max. working temp.: 75 °C.
- Max. vacuum: 5000 Pa.
- Maximum overpressure: 800 Pa.
- Inlet through filter hopper or inlet module.
- Regeneration fan for reverse air cleaning of filter bags, can be mounted on side or on roof.
- Combined inspection and explosion relief panel.
- Available in two widths, type E and J.
- Filter surface:  
HJ: 85 m<sup>2</sup> / per module  
LJ: 40 m<sup>2</sup> / per module

Dimensions (example –  
NFKZ3000 2 + 1 HJ)



The NFKZ3000 filter is suitable for handling large volumes of air with heavy material contamination levels. It is a modular filter made of galvanised steel sheet. Filter has telescopic support and is suitable for outdoor use. Each module (2400 mm) of the filter design is fitted with a combined inspection and explosion relief door. Filter cleaning with regeneration fans. The filter is fitted with the unique patented SUPERBAG. The filter hopper and inlet section (optional) separates medium-sized/large particles and distributes the air to the filter bags. A double chain conveyor on the bottom of the hopper passes the collected material to a rotary valve for discharge.

## Benefits

- Handles air volumes from 6000-500 000 m<sup>3</sup>/h.
- ATEX-certified for St1 and St2 dust with a Kst value up to 300 bar m/s.
- Compact design.
- Suitable for handling large volumes of air with heavy material contamination.
- Designed for continuous operation.
- For mounting on the ground or on the roof.
- Overpressure or vacuum versions up to 5 000 Pa.
- Explosion relief upwards or sideways.
- Powerful online cleaning with efficient regeneration fans.
- Patented antistatic polyester SUPERBAGs.
- Easy to install on site and extend when required.
- Low energy consumption.



ATEX (Ex) II D St2 certified equipment under Baseefa 06 ATEX 0068

A#	B	C	D	E	F	G	H	I	J**	K**	L	M	N	O	P**	Q	R	S	U	W
2400	1106	245	153	583	1200	800	3600	720	3420	4230	see below	2321	952	1260	2960	135	2400	115	150	47

# Optional 1200 mm. \* Optional outlet position/regeneration fan 800 x 800 or 600 x 600 mm. (LJ version: not on door side)

\*\* Height of LJ version – reduce dimension by 1440 mm.

All dimensions in mm\*.

L – telescopic filter stand		
Type	Min. adjustment	Max. adjustment
L = 1596	555	1250
L = 2195	1155	1850
L = 2596	1555	2250

Example					
Filter type	Version	No. of modules	Total filter surface	Chain conveyor	Rotary valve
NFKZ3000	HJ	5 + 1 module	425 m <sup>2</sup>	included	NRSZ 10
NFKZ3000	HJ	6 + 1 module	510 m <sup>2</sup>	included	NRSZ 10

# FMK Cassette filters



FMK cassette filters are a series of compact filters. Thanks to its compact design, the filter is easy to position and offers many operational benefits. The filters are designed for indoor and outdoor use. On the standard model, a fan can be mounted on the top. The filter cassettes are available in a number of materials.

## Benefits

- Thanks to the patented design of the filter cassette, cleaning is extremely efficient while reducing compressed air consumption to a minimum.
- Proven reliability, based on over 20 years' experience and continuous development of filter technology.
- The FMK filter cassettes are accessible and easy to replace.
- High efficiency gives low energy consumption.



ATEX (Ex) II D St3 certified equipment

Type	No. of cassettes	Filter surface, m <sup>2</sup>	Max. airflow, m <sup>3</sup> /hr	Dust container
FMK25-2E/4	2	15	1800	50 litres
FMK25-2E/6	2	22	2600	50 litres
FMK25-4E/4	4	29	3400	50 litres
FMK25-4E/6	4	44	5200	50 litres
FMK25-6E/4	6	44	5200	50 litres
FMK25-8E/4	8	58	7000	50 litres
FMK25-6E/6	6	66	8000	50 litres
FMK25-8E/6	8	88	10500	50 litres

Filter is pre-assembled in 2 parts.

## Design

- Standard filter material: Polyester NF 100.
- 4-tier cassette Max. 40 g/m<sup>3</sup> fine or coarse dust.
- 6-tier cassette Max. 20 g/m<sup>3</sup> fine dust.
- Maximum working temperature 75 °C
- Maximum vacuum 6000 Pa.
- Maximum overpressure 1500 Pa.
- Inlet and outlet dimensions 160, 250, 315, 400 mm.
- Primary separation chamber with perforated screen.
- Clean air outlet chamber, height 200 mm.
- Bolted door.
- 50 litre dust bin.
- Measurement of differential pressure and control of the cleaning system: DFC-8M, energy supply 230V – 50 Hz / 110 V – 60 Hz.
- Compressed air cleaning system (max. 6 bar), connection 1".
- Pressure regulator and water separator.

## Optional

- A wide range of filter materials to suit the dust to be filtered.
- Available in three main versions:
  - Filter with hopper and collection bin.
  - Filter with hopper and flange 300 x 300 mm.
  - Can be used as a silo filter.

- ATEX version with explosion relief on filter body for class St1, St2 or St3 dust and filter installation in non-zone, zone 22 or in zone 21: FMKZ model.
- Rotary valve on the filter outlet for class St1 and St2 dust and filter installation in non-zone or zone 22.
- Hinged door.
- 100-litre dust collection bin on wheels.
- Rectangular inlet or outlet flange.
- Clean air outlet chamber, height 350 mm.

## Finish

- Galvanised steel sheet.

## Accessories

- Selection of built-in FM fans from 3.0 to 18.5 kW.
- Manual input control damper in the fan inlet.
- Platform with ladder for maintenance work.
- Air outlet with silencer.
- Soundproof cover to reduce noise from fan and motor.
- Back pressure flap valve for dust input.
- Continuous emptying of dust with rotary valve NRS 3.
- Extra protection for cassettes against fibrous dust.
- Leg extension up to 2000 mm.
- CARZ back-pressure flap valve.
- Lime feeder type NFKG-70.



# FMC Cartridge filters

## Design

- Standard cartridges in polyester CA100: 10 g/m³ max. fine or coarse dust.
- Cartridge in cellulose CA175: 1 g/m³ max. cold fumes
- Maximum working temperature 75 °C
- Maximum vacuum 6000 Pa.
- Maximum overpressure 1500 Pa.
- Inlet and outlet dimensions 160, 250, 315, 400, 500 or 560 mm.
- Air inlet section adapted for a deflector/ wear plate.
- Primary separation chamber with perforated screen.
- Clean air outlet chamber, height 200 mm.
- Bolted door.
- 50 litre dust bin.
- Measurement of differential pressure and control of the cleaning system: DFC-8M, energy supply 230 V – 50 Hz, 110V – 60 Hz.
- Compressed air cleaning system (max. 6 bar), connection 1".
- Compressed air filter and pressure regulator.

## Finish

- Galvanised steel sheet.

## Optional

- A range of filter materials to suit the dust to be filtered.
- Available in three main versions:
  - Filter with hopper and collection bin.
  - Filter with hopper and discharge flange 300 x 300 mm.
  - Can be used as silo filter.
- ATEX version with explosion relief on filter body for class St1, St2 or St3 dust and filter installation in non-zone, zone 22 or in zone 21: FMCZ model.
- Rotary valve on the filter outlet for class St1 and St2 dust and filter installation in non-zone or zone 22.
- Hinged panel.
- 50 or 100-litre container on wheels.
- Rectangular inlet or outlet flange.
- Clean air outlet chamber, height 350 mm, for airflow between 9 500 and 16 000 m³/h.
- Clean air outlet chamber, height 500 mm, for airflow between 16 000 and 21 200 m³/h.

## Accessories

- Selection of built-in FM fans from 3.0 to 18.5 kW.
- Manual damper in fan inlet.
- Platform with ladder for maintenance work.
- Outlet with silencer.
- Soundproof cover to reduce noise from fan and motor.
- Back pressure flap valve for emptying dust.
- Continuous emptying of dust with rotary valve NRS 3.
- Extra protection for cartridges against fibrous dust.
- Leg extension up to 2000 mm.
- CARZ back-pressure flap valve.
- Lime feeder type NFKG-70.



The FMC cartridge filter series offers many operational benefits thanks to its compact design and patented UniClean® system. The special design of UniClean® cartridges guarantees consistent and effective cleaning. The FMC filters are designed for air volumes between 1 200-21 000 m³/h containing different types of dust. The FMC filters can be fitted with different types of filter cartridge, positioned vertically to prevent dust building up on the filter material.

## Benefits

- Cartridges are available in a wide variety of materials to suit most applications, whatever the type and quantity of dust.
- Their modular compact design means they can be installed close to the source of dust, thus reducing energy consumption.
- The FMC filter cartridges are accessible and easy to exchange.
- Intelligent ECO-efficient filter controller minimize maintenance and energy costs.

## Key code, e.g.: FMC200-2L

<b>FMC200</b>	FMC200 cartridge filter
<b>2-8</b>	No. of cartridges
<b>L/A</b>	Cartridge height: L = low, A = high



ATEX (Ex) II D St3 certified equipment

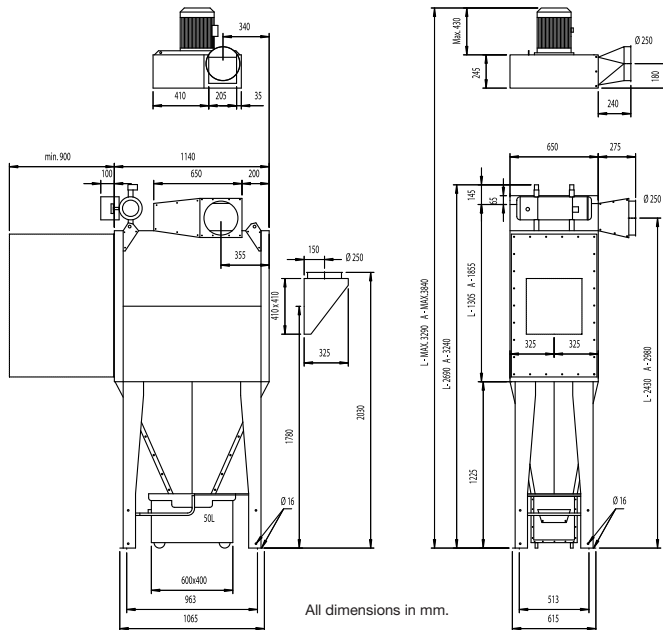
Type	No. of cartridges	Filter surface, m²	Max. airflow, m³/hr	Dust container
FMC200-2L	8	standard: 32	3200	50 litres
FMC200-2L	8	cellulose: 72	3200	50 litres
FMC200-4L	16	standard: 64	6400	50 litres
FMC200-4L	16	cellulose: 144	6400	50 litres
FMC200-6L	24	standard: 96	9600	50 litres
FMC200-6L	24	cellulose: 216	9600	50 litres
FMC200-8L	32	standard: 128	12800	50 litres
FMC200-8L	32	cellulose: 288	12800	50 litres
FMC200-2A	8	standard: 53	5300	50 litres
FMC200-2A	8	cellulose: 116	5300	50 litres
FMC200-4A	16	standard: 106	10600	50 litres
FMC200-4A	16	cellulose: 232	10600	50 litres
FMC200-6A	24	standard: 159	15900	50 litres
FMC200-6A	24	cellulose: 348	15900	50 litres
FMC200-8A	32	standard: 212	21200	50 litres
FMC200-8A	32	cellulose: 464	21200	50 litres

Filter is pre-assembled in 2 parts.



## FMC cartridge filters

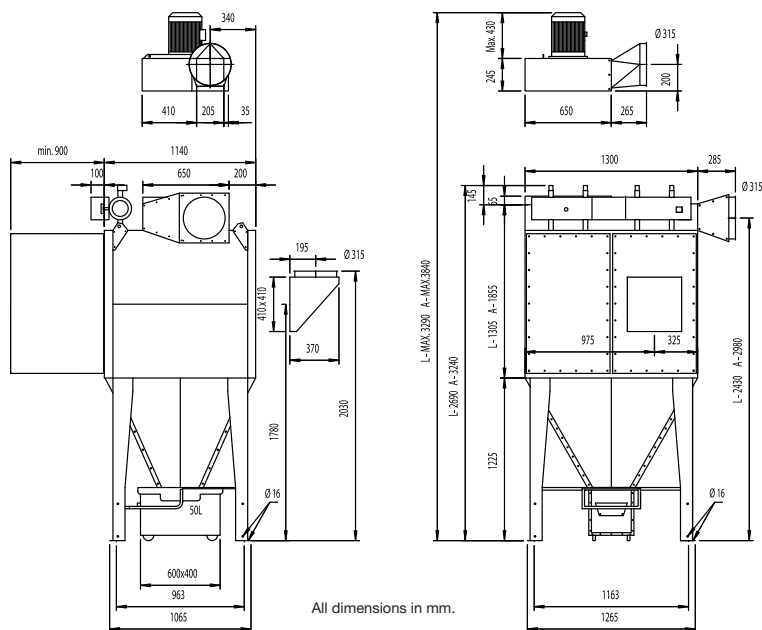
FMC200-2L and 2A with dust containers



Type	FMC200-2L		FMC200-2A	
	standard	cellulose	standard	cellulose
Filter surface, m <sup>2</sup>	32	72	53	116
Weight (kg) with 50 litre dust container, excl. fan	219	219	267	267

## FMC Cartridge filter

FMC200-4L and 4A with dust container



Type	FMC200-4L		FMC200-4A	
	standard	cellulose	standard	cellulose
Filter surface, m <sup>2</sup>	64	144	106	232
Weight (kg) with 50 litre dust container, excl. fan	418	418	495	495

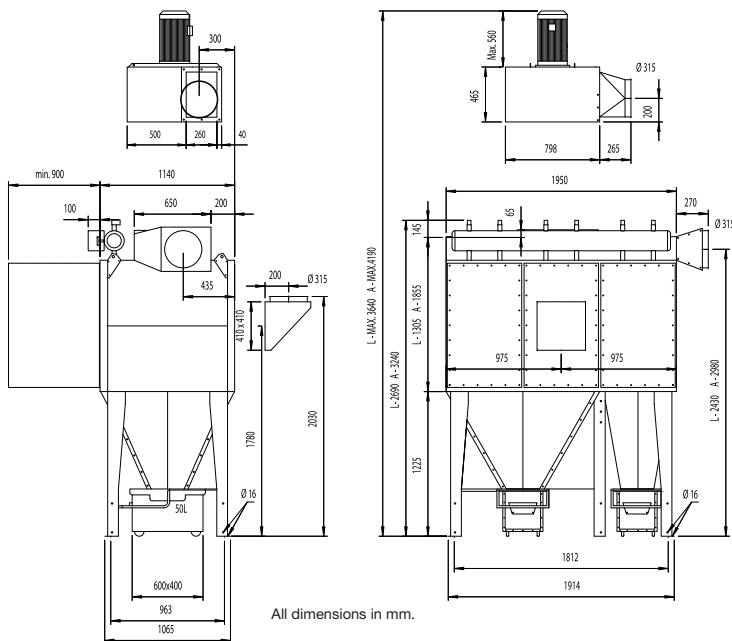






## FMC Cartridge filters

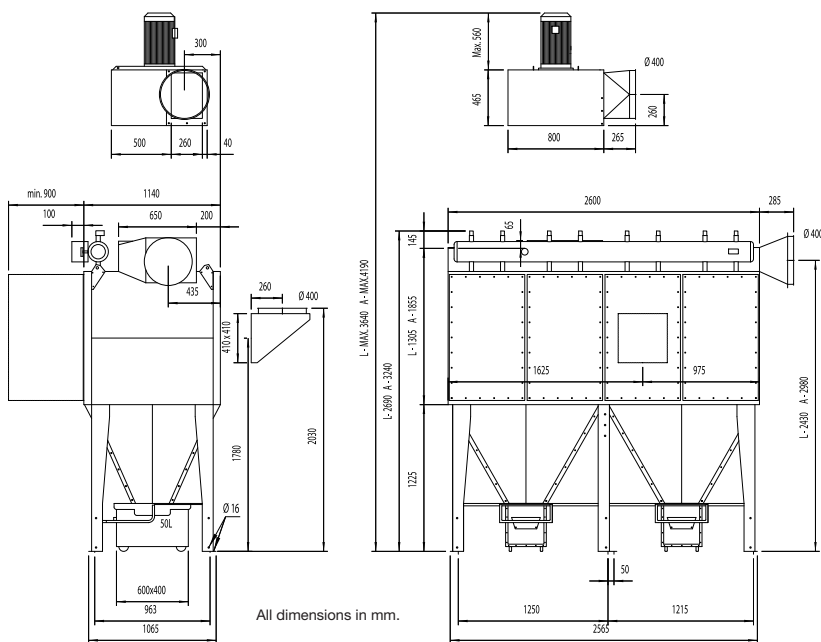
FMC200-6L and 6A with dust container



Type	FMC200-6L		FMC200-6A	
	standard	cellulose	standard	cellulose
Filter surface, m <sup>2</sup>	96	216	159	348
Weight (kg) with 50 litre dust container, excl. fan	637	637	740	740

## FMC Cartridge filters

FMC200-8L and 8A with dust container

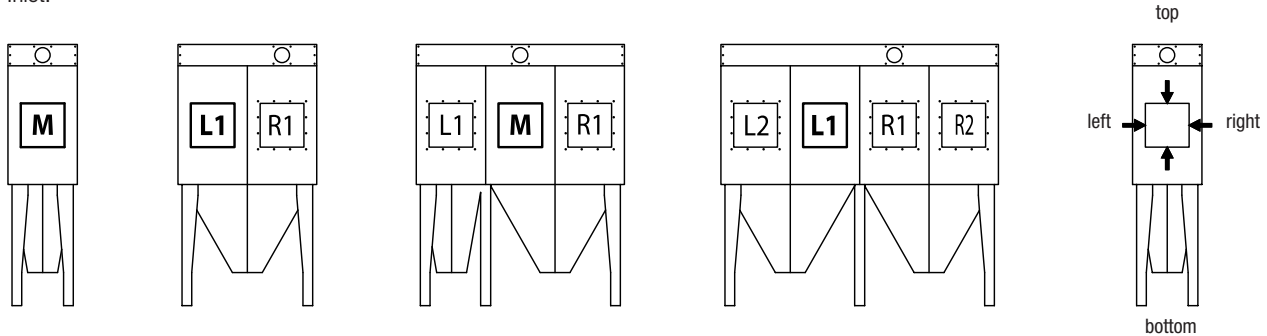


Type	FMC200-8L		FMC200-8A	
	standard	cellulose	standard	cellulose
Filter surface m <sup>2</sup>	128	288	212	464
Weight (kg) with 50 litre dust container, excl. fan	836	836	969	969

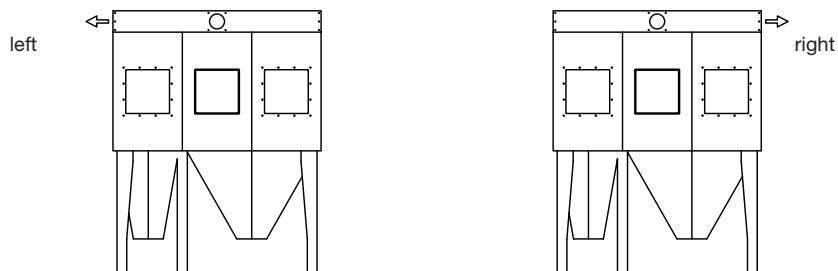
# FMC cartridge filters

Inlet and outlet positions for FMC200, type L and A (filter seen from the back)

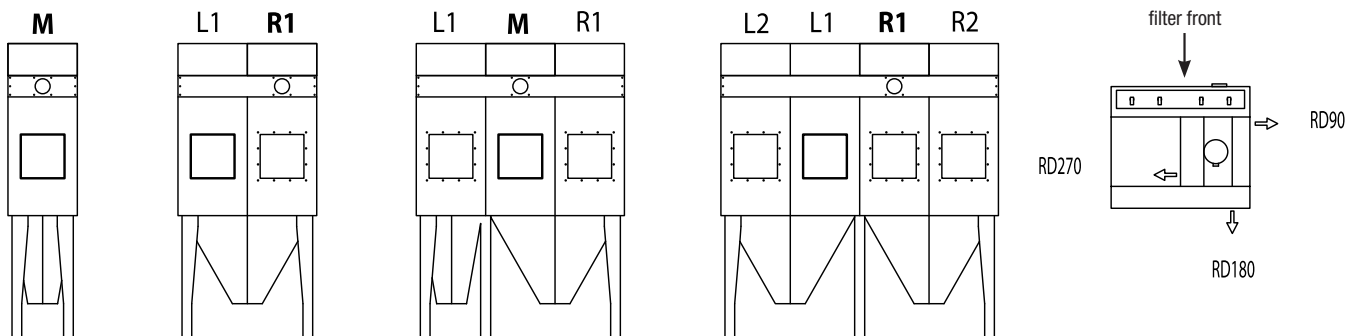
Inlet:



Outlet without fan:



Fan:



Type	Inlet position	Inlet direction	Fan position	Outlet with fan	Outlet without fan
FMC200-2L FMC200-2A	<b>M</b>	top right left bottom	<b>M</b>	RD270 RD180 RD90	right left
FMC200-4L FMC200-4A	L1 <b>R1</b>	top right left bottom	R1 L1	RD270 RD180 RD90	right left
FMC200-6L FMC200-6A	M L1 R1 R1/L1*	top right left bottom	M R1 L1	RD270 RD180 RD9	right left top
FMC200-8L FMC200-8A	L1 R1 L2 R2 R1/L2* R2/L1*	top right left bottom	R1 L1 R2 L2	RD270 RD180 RD90	right left top

Positions in bold represent standard positions.

\* Diameter 500 and 560 for FMC200-6A and FMC200-8A, a T-junction joins the two inlets.

# Integrated FM fan for FMK and FMC filters

Maximum efficiency with minimum noise

The FM fan has been designed to offer maximum performance with a minimum of noise. The result is a safe and reliable system with low energy consumption over the whole airflow range. The fans are only accessible in the RD flow. FMZ fans can be used on the clean air side of an FMCZ 200 or FMKZ 25 filter handling explosive dust. FMZ fans are fitted with an inspection panel.



Specifications	Standard
Fan, material	galv. steel sheet, 2 mm
Motor, electrical data	3 x 400V, 50 Hz
Motor and fan speed	2900 rpm

## Marking

FMZ is type-marked for installation outside the explosive atmosphere zone:

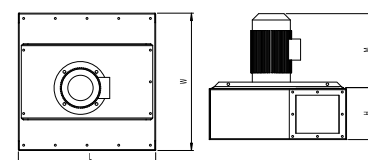
Ⓔ II D T4 inner zone 22

For installation in zone 22:

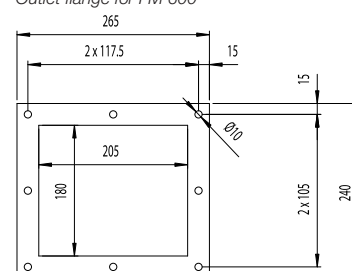
Ⓔ II 3D T4 inner zone 22

Type	Motor power kW	Weight* kg	Optimum airflow volume m³/h	Noise level dB(A)/1m¹	Efficiency	Max. airflow, volume m³/h	L mm	W mm	H mm	M mm
FM620	3,0	74	2000	65	82	3000	650	650	245	350
FM622	4,0	83	3000	69	82	4000	650	650	245	370
FM625	5,5	95	4000	67	82	5000	650	650	245	430
FM825	7,5	150	5000	72	82	6000	800	800	465	430
FM831	11,0	166	7000	73	82	8000	800	800	465	560
FM835	15,0	180	9000	74	81	10000	800	800	465	560
FM1000	18,5	260	14000	76	82	16000	1173	1023	378	505

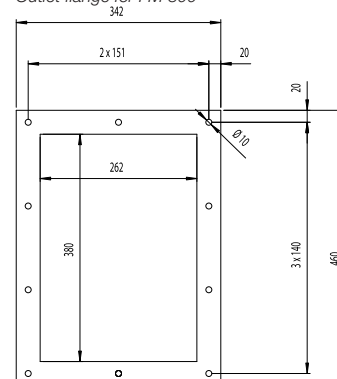
\* Approx. total weight of fan and motor according to model used. Noise level and efficiency meet optimum requirements.  
Note 1: Incl. pipe connections. Noise level from outlet not included.



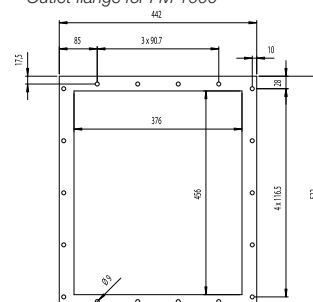
Outlet flange for FM 600



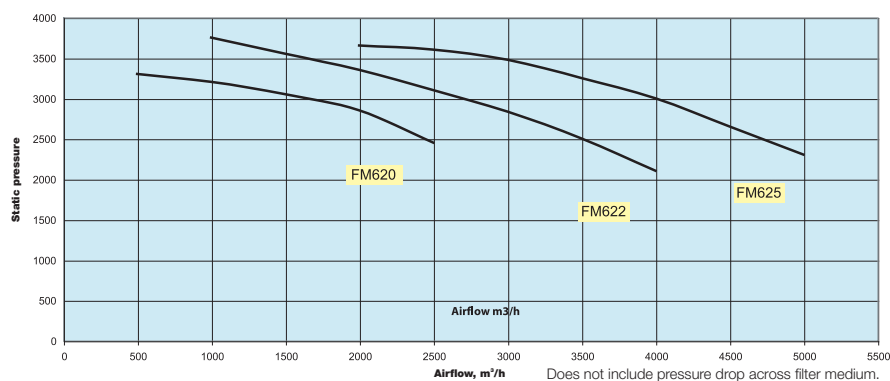
Outlet flange for FM 800



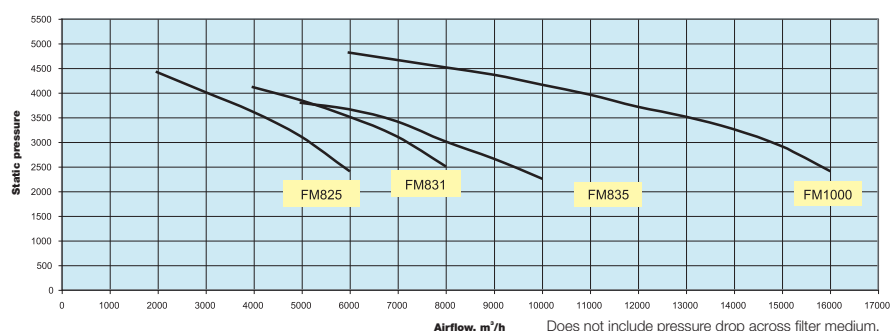
Outlet flange for FM 1000



## FM fan capacity diagram



## FM fan capacity diagram



# AUTO M-Z Shaker filters



The Auto M-Z series is a powerful free-standing filter with an automatic shaker cleaning system.

This is the latest model, based on over 30 years' continuous development work on production enhancements.

## Benefits

- All access for maintenance from the front of the unit.
- Dust container.
- Compressed air not necessary.
- ATEX-certified for explosive dust in categories St1, St2 and St3.
- Efficient, automatic electric shaker mechanism.
- Weather-proof for positioning outdoors.
- Neat and compact design makes it easy to position.

## Design

- Maximum working temp. 80 °C.
- Maximum vacuum: 4000 Pa.
- Maximum overpressure: 1500 Pa.
- Filter surface from 7.5 to 90 m².
- Wide range of filter materials for most applications.
- Complete range of high-performance fans 0.75 kW to 15 kW.
- Many options for inlet positioning.
- All electrical connections taken to the connection side of the unit.

## Finish

- Typically RAL 7035 grey; other colours and paint specifications available.

## Optional

- Balancing system for containers available to facilitate use of plastic bags.
- Section for pre-separation of bulky or fibrous dust.
- Sack tipping unit with hinged panel on the front.
- Spark trap on the intake.
- Built-in secondary filter F7 or H14.
- Fan 0.75 – 15.0 kW.

## Accessories

- Silencer hood for fan.
- Outlet with hood.
- Pressure difference indicator.
- Self cleaning filter system.
- Lime feeder type NFKG-70.

Type	Filter surface m²	Max. airflow m³/hr	Max. fan kW	Weight kg
Z7.5	7,5	800	3	160
Z15	15	1900	3	210
Z25	25	3000	7.5 (small)	310
Z30	30	3400	7.5 (small)	350
Z50	50	6000	15	520
Z60	60	6800	15	640
Z75	75	9000	15	740
Z90	90	10200	15	860

\* Incl. frame for shaker cleaning, 0.25 kW motor and 75 litre dust container.  
Excl. fan and shaker cleaning system.



ATEX (Ex) II D St3 certified equipment

Standard AUTO M-Z unit											Max. weight, kg	
Type	A Width excl. terminal box	B Deep	C Height with 75 litre dust container	D Height with 150 litre dust container	E Height to centre, inlet 75 litre container	F Height to centre, inlet 150 litre container	G Max. motor height	H Height of filter housing	K Height of std. silencer.	Inlet Dimension	Unit with container and largest fan.	Filter housing
Z7.5	830	750	1458	1753	485	783	245	911	425**	Ø 100, 125 150 and 190	160	120
Z15	830	750	2008	2303	485	783	245	1461	425**	Ø 100, 125 150 and 190	210	160
Z25	1120	1010	2313	2613	565	865	366	1680	425	450 x 200 (H)	310	250
Z30	1120	1010	2567	2867	565	865	366	1937	425	450 x 200 (H)	350	290
Z50	2240	1010	2313	2613	565	865	844*	1680	425	450 x 200 (H)	520	420
Z60	2240	1010	2657	2867	565	865	844*	1937	1100	450 x 200 (H)	640	500
Z75	3360	1010	2313	2613	565	865	844*	1680	1100	450 x 200 (H)	740	550
Z90	3360	1010	2567	2867	565	865	844*	1937	1100	450 x 200 (H)	860	680

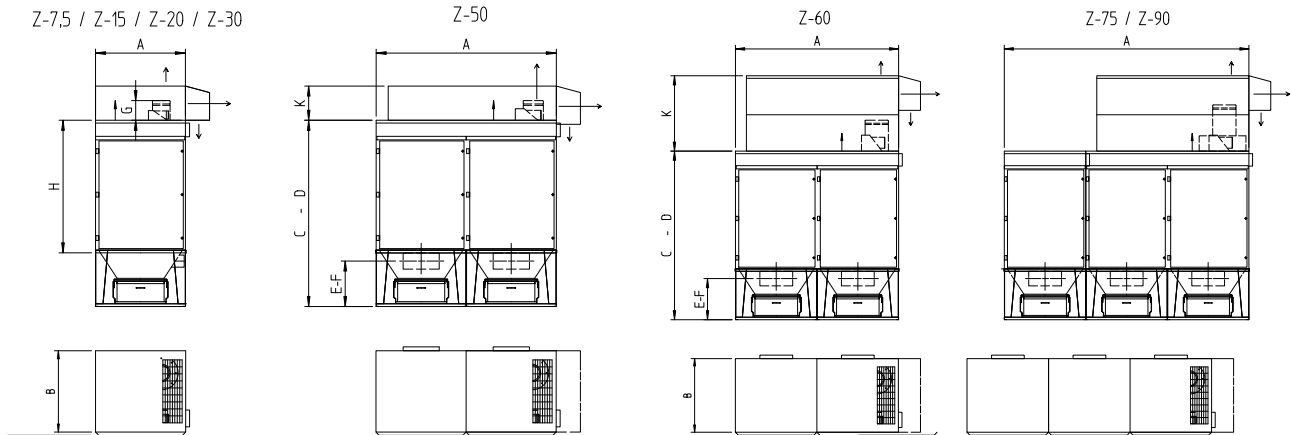
\* NOTE: Shown for 11 kW and 15 kW fans, mounted externally. Dimensions of 7.5 kW motor 366.

\*\* NOTE: Max. fan size for Z 7.5 and Z 15 is 3.0 kW.

All dimensions in mm.



## AUTO M-Z vibration filter Dimensions



Outlet, alt. 1 on top.

Outlet, alt. 2 from side with guard net.

Outlet, alt. 3 from side with cap for weather protection.

Standard inlet on back for units Z 7.5 to Z 30. Side inlet optional.

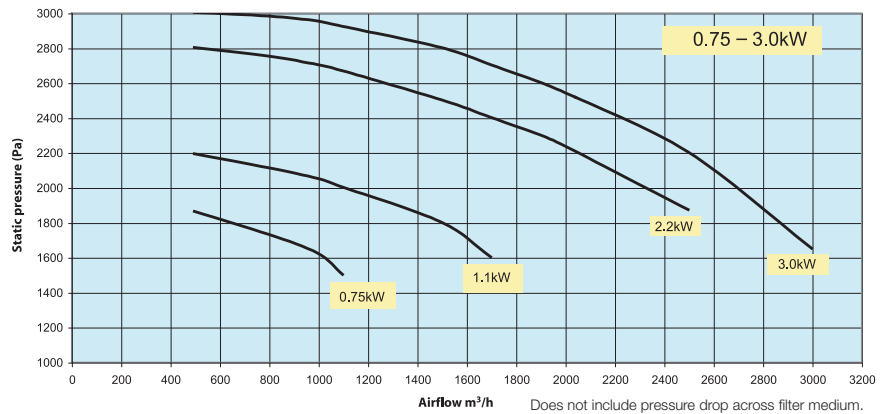
Standard inlet on back for units Z 50 to Z 90. Side inlet optional on units Z 50 and Z 60.

Z 90 must have inlet at the back.

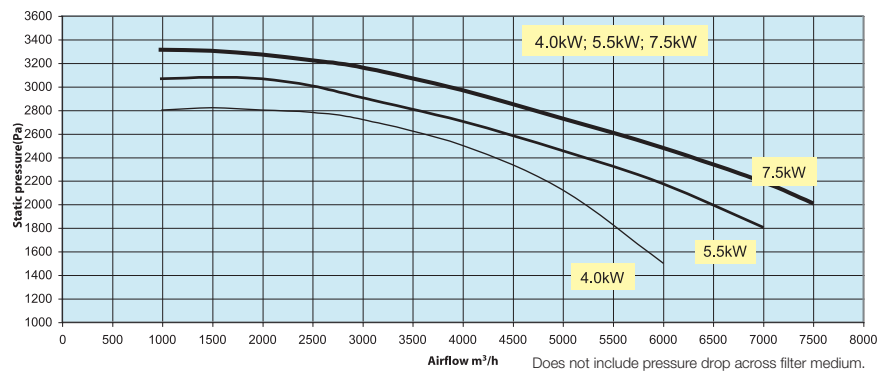
## AUTO M-Z Fan performance



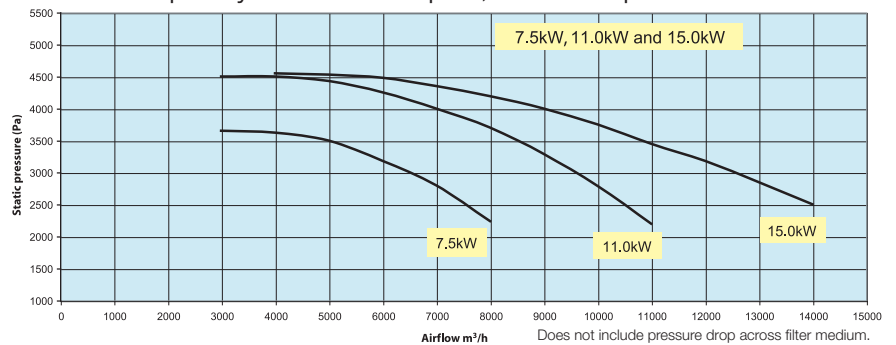
Fan capacity with outlet open, at 2900 rpm.



Fan capacity with outlet open, at 2900 rpm.



Fan capacity with outlet open, at 2900 rpm.



For details of replacement parts, visit our web site.



Our range also includes filters for large air volumes, high temperatures and large quantities of material. These filters are characterised by their robust design to handle high vacuum and overpressure and 24-hour operation. Contact us for technical description and price. We can help you with technical support – please contact customer service.

MJB bag filters	MJC cartridge filter
Strong welded steel design	Strong welded steel design
Exchange of filter from clean air side	Exchange of filter from clean air side
Weatherproof	Weatherproof
ATEX for explosive dust in categories St1, St2 and St3	ATEX for explosive dust in categories St1, St2 and St3
Integrated pre-separator with down/cross-flow air distribution *	Integrated pre-separator with down/cross-flow air distribution
Wide range of integrated fans	Wide range of integrated fans
Airflow up to 190 000 m <sup>3</sup> per filter unit	Airflow up to 65 000 m <sup>3</sup> per filter unit
High constant temperatures	
Up to 250 °C	

**CJB bag filters**

- Large air volumes, up to 160.000 m³/hr
- Efficient centrifugal pre-separation guarantees effective filtration for high dust content over 300 g/m³
- Filtration with very low dust content under 0.1 g/m³ in outlet air
- Designed to handle very large volumes of dust, e.g. wood or paper
- ATEX for explosive dust in categories St1

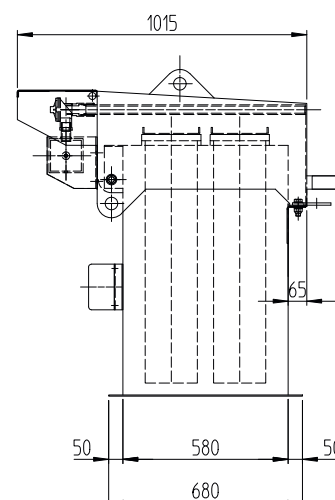
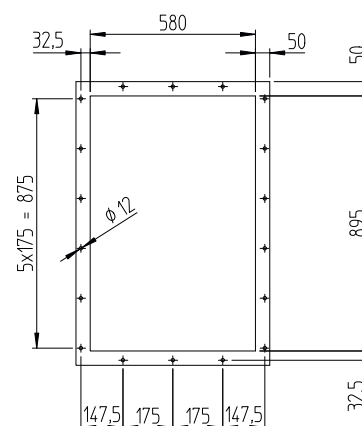
## SiloSafe 24 and SiloSafe 24 fan



A compressed air cleaned cartridge filter with 24 m<sup>2</sup> filter surface, used for silo ventilation. Also available with a 2.2 kW fan (SiloSafe 24F). Strong welded construction in 4 mm heat-galvanised steel sheet. Filters can be replaced very easily as the hinged lid opens upwards and the cartridges are replaced from above. Needless to say, the filter is available in ATEX versions St1-St3.

## Benefits

- Compact design = easy to position.
- The filter is galvanised for a long service life
- 24 m<sup>2</sup> filter surface, which means that the filter can handle most bulk deliveries
- Easy to replace the filter by opening the lid
- Patented Uniclean cartridge gives long service life



# MFS modular filter system

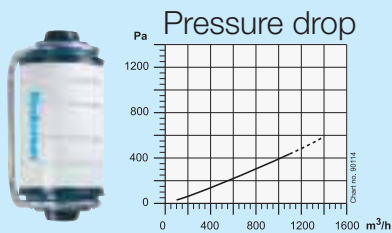
MFS offers maximum flexibility through its unique modular concept of standard mounting and filter elements. Virtually any combination can be achieved, from a single filter assembly to larger multi-stage systems combining particle, HEPA and gas filters. For filtration of both particles and gases, place the particle filter before the gas filter. To increase the total airflow capacity, place further filter assemblies in parallel. Applications: TIG and spot welding, laboratory extraction, food ingredients and odours, chemical handling etc.

- Few parts - easy installation.
- Modular design - easy to expand the filter capacity.
- Particle, HEPA and gas filters can be combined.

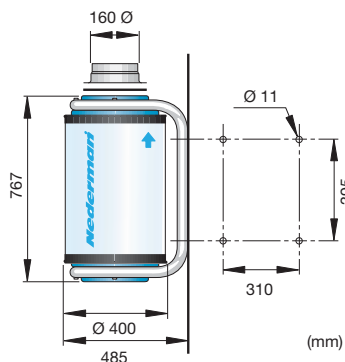


## MFS Particle filter

For welding fumes, dust and large particles. A complete filter unit includes filter cartridge, console and two connections.

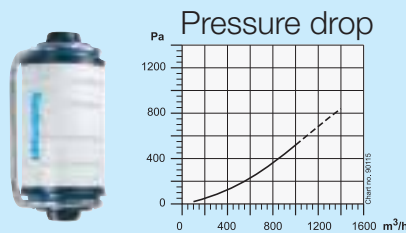


Part no.	12600144
Filter surface	18 m²
Filtration efficiency 99%*	99%*
Weight	8.8 kg
Material in cylinder	Cellulose paper
Material in filter medium	Cellulose paper, BIA category M



## MFS Micro / HEPA filter

For ultra fine and contaminating particles. A complete filter unit includes filter cartridge, console and two connections.



Part no.	12600444
Filter surface	14 m²
Filtration efficiency 99%*	99,95%*
Weight	6.4 kg
Material in cylinder	Cellulose paper
Material in filter medium	Micro glass fibre

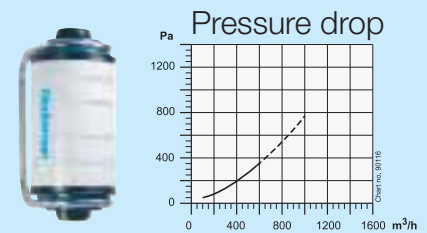
\*) according to EN 1822, H13.



Accessories	Part no.
Console for MFS	12600644

## MFS Gas and carbon filter

Adsorbs smells, gases, smoke and organic solvents (toluene and methyl ethyl ketone). A complete filter unit includes filter cartridge, bracket and two connections.



Part no.	12600544
Total weight	21 kg
Weight of filter medium	15 kg
Material in cylinder	Cellulose paper
Material in filter medium	Activated carbon

Airflow must not exceed 500 m³/h per filter unit.  
The smaller the airflow, the greater the separation/adsorption.

# FilterMax C25

## A compact freestanding filter with built-in fan



The FilterMax C25 is a complete integrated filter solution for the whole workshop. The FilterMax C25 filters air impurities from the metal industry and non-explosive dust from other industries. The filter can handle up to 2 750 m³/h. There is a wide range of cartridges for different applications.

The FilterMax C25 is fitted with the Nederman automatic cleaning system. The pulse-jet system cleans the filter cartridges in sequence while the filter remains in operation. The FilterMax C25 can also be cleaned after operation if required.

The FilterMax C25 cartridge is a compact high-performance filter cartridge. The cartridges are available in various materials. The flat shape of the filter cartridges minimises the area of “lost” medium at the top of the cartridge.

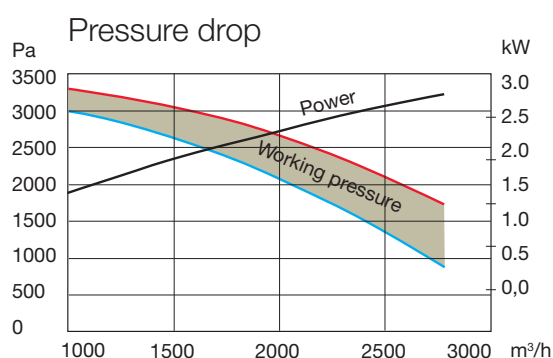
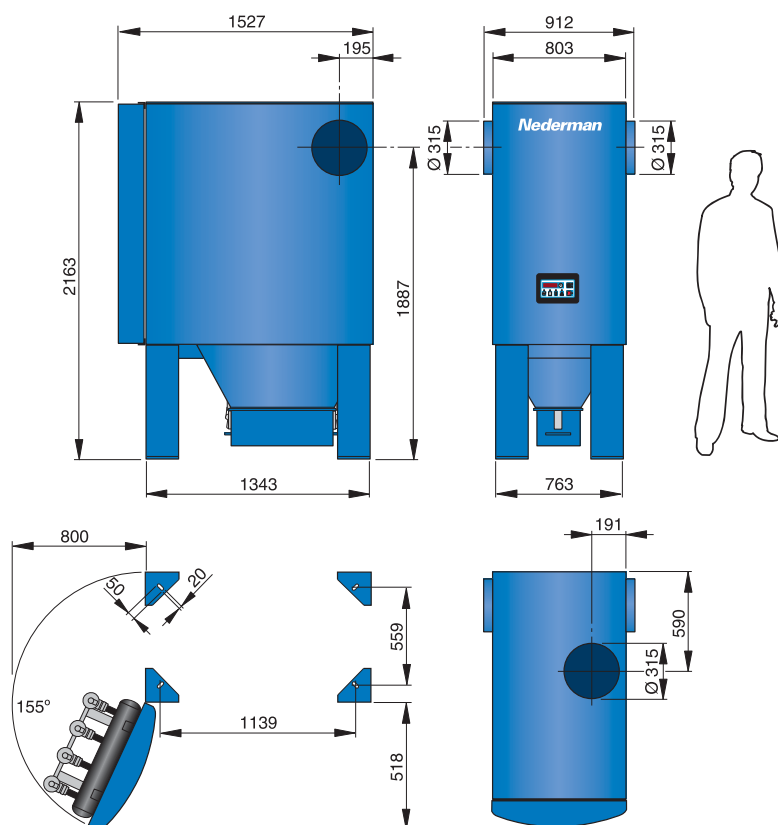
### Design

- Powerful filtration solution for continuous operation.
- Compact unit that takes up very little floor space.
- Quiet cleaning system for a good working environment.
- Integrated fan with built-in control system for easy mechanical and electrical installation.

### Models

Description	Voltage, V	Phase	Hz	Current, A	Part no.
FilterMax C25 400 V 50 Hz *	400	3	50	6,1	12630167
Description	Voltage, V	Phase	Hz	Current, A	Part no.
FilterMax C25 400 V 50 Hz **	400	3	50	6,1	12630767
Description	Voltage, V	Phase	Hz	Current, A	Part no.
Conversion set for FilterMax C25 from 400 V to 230 V, 3-phase, 50 Hz	230	3	50	6,1	12374563

\* Models including PW NS filter, 12 m². \*\* Models without filter. Choose filters from the list of accessories.





# FilterMax C25

## Accessories

Description	Part no.
<b>Filter cartridge, 12 m<sup>2</sup>, PW NS-95-12-4 (4-pack) / W3</b> PTFE-impregnated (non-stick) polyester fabric. Suitable for smoke and fine to medium-fine dust. Washable. Efficiency 99% at 0.5 µm.	12373270*
<b>Filter cartridge, 12 m<sup>2</sup>, PW PTFE-95-12-4 (4-pack)</b> PTFE membrane, laminated on polyester fabric. Suitable for small to medium-sized particles. Washable. Efficiency 99.9% at 0.5 µm.	12373325*
<b>Filter cartridge, 10 m<sup>2</sup>, antistatic, PWA-95-10-4 (4-pack)</b> Aluminium-coated polyester fabric. Suitable for explosive medium to coarse particles. Washable. Efficiency 99% at 0.5 µm.	12373303*
<b>Filter cartridge, 10 m<sup>2</sup>, antistatic, PWA PTFE-95-10-4 (4-pack)</b> Aluminium-coated polyester fabric, laminated with a PTFE membrane. Suitable for explosive medium to coarse particles. Washable. Efficiency 99.9% at 0.5 µm.	12373335*
<b>Filter regulator</b> Used to set the right air pressure. Separates dust from compressed air, which means it also protects the valves. Should be installed in the compressed air line. May only be placed in a frost-free environment.	12372064
<b>Shut-off valve for compressed air</b> Ventilation shut-off valve. Should be installed in the compressed air line. Used to shut off compressed air while the system is being serviced. When ordered with initial delivery, this accessory is fitted at the factory.	12372083
<b>Pressure gauge kit</b> Measures pressure drop across the filter cartridges. Mounted on FilterMax stand. Can be combined with a pressure sensor so LED no. 3 indicates when it is time to replace the filter cartridges. When ordered with initial delivery, this accessory is fitted at the factory.	12372063
<b>dP control kit</b> Used for more effective control of cleaning with better monitoring. Saves compressed air when partly used for variable load. Fitted with alarm functions for high pressure drop across filter.	12373321
<b>Safety switch</b> For FilterMax C 25.	12372076
<b>FilterMax C25 W3 kit</b> Set contains dP control set, filter regulator, shut-off valve, indicator light and plastic bags for dust container. With this set, the Filter Max C25 is BGIA certified for welding fume class W3, according to the EN ISO 15012-1 standard.	12375078

\* May only be ordered with FilterMax C25.

Model	C25
Weight	454 kg
No. of filter cartridges	4
Total filter surface	48 m <sup>2</sup> (polyweb filter), 40 m <sup>2</sup> (antistatic polyweb filter)
Airflow (depending on load and application)	Filtration
Compressed air requirement	4 to 6 bar, free from oil and water
Compressed air consumption	64 N-litre/min at 30 second intervals, 32 N-litre/cleaning pulse
Ambient temperature	-20 °C to +50 °C
Temperature of process air (dry)	0 °C to +60 °C, non-condensing
Dimensioned pressure drop	1200 Pa
Filtration	99% or 99.9% (PTFE filter) at 0.5 µm (after a period in operation)
Container capacity	30 litres
Description of material	3 mm painted steel sheet
Installation	Indoors
Fan motor	3 kW
Protection class	IP 54
Relay voltage, accessories	24 V AC, max. 60 VA
Working pressure	0 to -5 kPa, no overpressure
Pulsating noise	50 dB LpAeq, 30 s
Noise level	66 dB(A)

# FilterMax F

## Modular filter system with built-in pre-separator



The FilterMax F is a complete integrated filter solution for the whole workshop. With its integrated pre-separator, the FilterMax F is perfectly suited for applications involving smoke and coarse particles. The FilterMax F is an efficient and compact filter unit with capacity up to 10 000 m³/h. FilterMax F is built for industrial processing of non-explosive dry dust and fumes. The compact and efficient integrated pre-separator catches up to 80% of the coarse particles and larger sparks, increasing the service life of the filter cartridges. The FilterMax F is fitted with the Nederman automatic cleaning system. The pulse-jet system cleans the filter cartridges in sequence while the filter remains in operation. The FilterMax F can also be cleaned after operation if required. The FilterMax F cartridge is a compact high-performance filter cartridge. The cartridges are available in various materials. The flat shape of the filter cartridges minimises the area of “lost” medium at the top of the cartridge.

### Design

- Automatic control system.
- Pulse-jet cleaning system.
- Dust-free filter exchange.
- Integrated pre-separator/spark trap.

### Models

Description	Part no.
<b>FilterMax F30</b>	12603567
<b>FilterMax F60</b>	12606567
<b>FilterMax F90</b>	12609567

N.B. Does not include filter cartridges, inlet, outlet and dust handling system. These have to be ordered separately.

### System components

To obtain a complete system, you need to choose your system components.

Description	FilterMax F Part no.
<b>Inlet:</b> Connection diameter Ø 250 mm	12373561
<b>Inlet:</b> Connection diameter Ø 315 mm	12373562
<b>Inlet:</b> Connection diameter Ø 400 mm	12373563
<b>Inlet:</b> Connection diameter Ø 500 mm	12373564
<b>Outlet:</b> Connection diameter Ø 315 mm	12373565
<b>Outlet:</b> Connection diameter Ø 400 mm	12373566
<b>Outlet:</b> Connection diameter Ø 500 mm	12373567
<b>Dust handling system:</b> Container set 2 x 40 litres. Including adapter.	12373881
<b>Dust handling system:</b> Container set on wheels, 2 x 100 litres. Including adapter and extension leg.	12373897
<b>Filter cartridge, 10 m², PW NS-75-10-6 (6-pack) / W3</b> PTFE-impregnated (non-stick) polyester fabric. Suitable for smoke and fine to medium-fine dust. Washable. Efficiency 99% at 0.5 µm.	12373161*
<b>Filter cartridge, 10 m², PW PTFE-75-10-6 (6-pack)</b> PTFE membrane, laminated on polyester fabric. Suitable for small to medium-sized particles. Washable. Efficiency 99.9% at 0.5 µm.	12375388*

\* May only be ordered with FilterMax F.

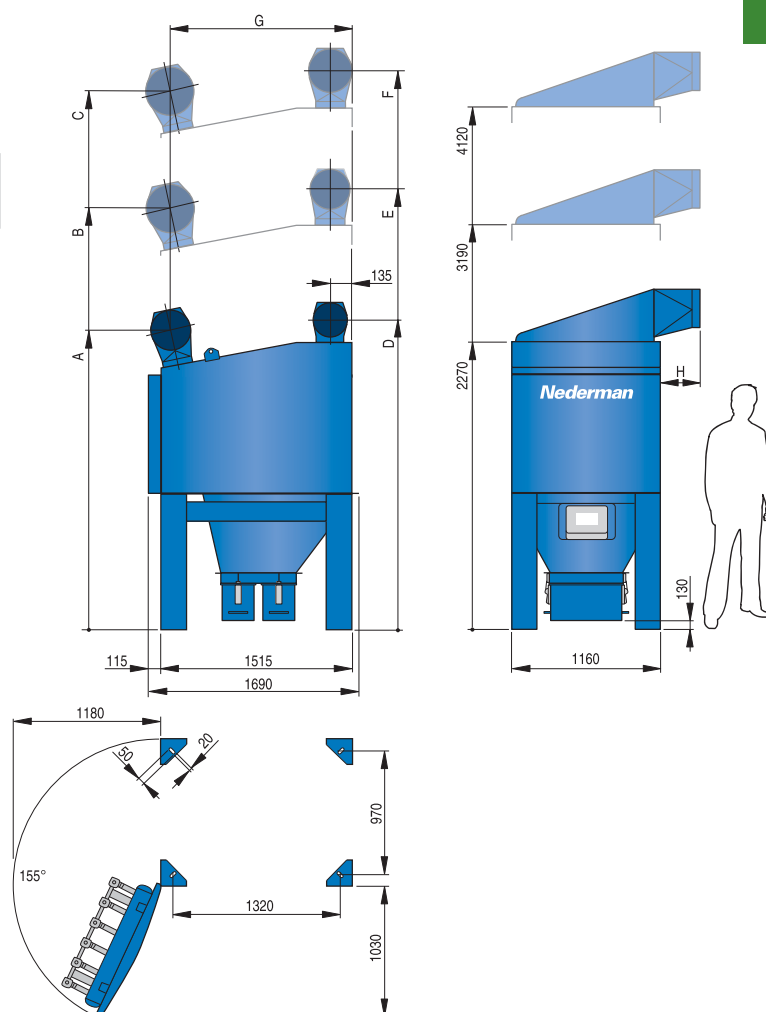
### Accessories

Description	FilterMax F Part no.
<b>Extra dust container</b> 40 litres.	12373898
<b>Extra dust container (incl. lid)</b> 100 litres.	12373899
<b>dP control kit</b> Used for more effective control of cleaning with better monitoring. Saves compressed air when partly used for variable load. Fitted with alarm functions for high pressure drop across filter.	12373603
<b>Shut-off valve</b> Ventilation shut-off valve. Should be installed in the compressed air line. Used to shut off compressed air while the system is being serviced.	12372083
<b>Pressure switch for compressed air</b> Protects the filter from damage when used without compressed air. May not be placed in areas at risk of explosion.	12372142
<b>Filter regulator</b> Used to set the right air pressure. Separates dust from compressed air, which means it also protects the valves. Should be installed in the compressed air line. May only be placed in a frost-free environment.	12372064
<b>Pressure gauge kit</b> Measures pressure drop across the filter cartridges. Mounted on FilterMax stand.	12372063
<b>Filter module</b> Filter module for extra capacity, max. 4 modules in a unit.	12373946
<b>FilterMax F W3 kit</b> Set contains dP control set, filter regulator, shut-off valve, indicator light and plastic bags for dust container. With this set, the Filter Max F is BGIA certified for welding fume class W3, according to the EN ISO 15012-1 standard.	12375079

# FilterMax F

Internal diameter inlet/outlet (mm)				
	250	315	400	500
A	-	2 375	2 440	2 565
B	-	3 300	3 365	3 490
C	-	-	4 290	4 415
D	2 450	2 560	-	-
E	3 370	3 480	3 540	-
F	-	4 410	4 470	4 600
G	-	1 430	1 445	1 465
H	275	325	395	445

N.B. Height measurement applies to a 40-litre container.  
If a 100-litre container is used, add 450 mm.



Model	F 30	F 60	F 90
Weight	630 kg	900 kg	1200 kg
No. of filter cartridges	6	12	18
Total filter surface	60 m <sup>2</sup>	120 m <sup>2</sup>	180 m <sup>2</sup>
Airflow (depending on load and application)	1 500–3 500 m <sup>3</sup>	3 000–7 000 m <sup>3</sup>	4 500–10 000 m <sup>3</sup>
Compressed air requirement	4 to 6 bar, free from oil and water		
Compressed air consumption	70 N-litre/min at 30 second intervals, 35 N-litre/cleaning pulse		
Voltage supply	100 V, 120 V, 230 V, 50/60 Hz		
Ambient temperature	-20 °C to +60 °C / -5 °F to 140 °F		
Temperature of process air (dry)	0 °C to +60 °C, non-condensing		
Dimensioned pressure drop	1200 Pa		
Filtration	99% or 99.9% (PTFE filter) at 0.5 µm (after a period in operation)		
Description of material	3 mm painted steel, epoxy-based zinc base colour and top coat		
Environmental classes	C4 = high corrosion risk, outdoors, polluted urban areas and coastal regions		
Installation	Indoors/outdoors		
Protection class	IP 54		
Relay voltage, accessories	24 V AC, max. 60 VA		
Working pressure	0 to -5 kPa, no overpressure		
Pulsating noise	50 dB LpAeq, 30 s		
Noise level	F30: 50 dB(A), F60: 63 dB(A), F90: 73 dB(A)		

# FilterMax DF

## Modular filter system for many applications



The FilterMax DF is an efficient and compact solution to your dust and fume problems. The FilterMax DF filters air impurities from the metal industry and non-explosive dust from other industries. The filter can handle up to 13 000 m<sup>3</sup>/hr. There is a wide range of cartridges for different applications.

The FilterMax DF is fitted with the Nederman automatic cleaning system. The pulse-jet system cleans the filter cartridges in sequence while the filter remains in operation. The FilterMax DF can also be cleaned after operation if required.

The FilterMax DF cartridge is a compact high-performance filter cartridge. The cartridges are available in various materials. The flat shape of the filter cartridges minimises the area of “lost” medium at the top of the cartridge.

### Design

- Automatic control system.
- Pulse-jet cleaning system.
- Dust-free filter exchange.

### Models

Description	Part no.
<b>FilterMax DF 40</b>	12620467
<b>FilterMax DF 80</b>	12620567
<b>FilterMax DF 120</b>	12620667

N.B. Does not include filter cartridges, inlet, outlet and dust handling system. These have to be ordered separately.

### System components

To obtain a complete system, you need to choose your system components.

Description	FilterMax DF Part no.
<b>Inlet:</b> Connection diameter Ø 250 mm	12373561
<b>Inlet:</b> Connection diameter Ø 315 mm	12373562
<b>Inlet:</b> Connection diameter Ø 400 mm	12373563
<b>Inlet:</b> Connection diameter Ø 500 mm	12373564
<b>Outlet:</b> Connection diameter Ø 315 mm	12373565
<b>Outlet:</b> Connection diameter Ø 400 mm	12373566
<b>Outlet:</b> Connection diameter Ø 500 mm	12373567
<b>Dust handling system:</b> Container set, 50 l. Set includes adapters and matching extension legs.	12373550
<b>Dust handling system:</b> Container set on wheels, 100 l. Set includes adapters and matching extension legs.	12373571
<b>Rotary air lock dust feeder kit:</b> For automated transport of collected dust. Set includes adapters and suitable extension legs.	12373573
<b>Filter cartridge,</b> 12 m <sup>2</sup> , PW NS-95-12-6 (6-pack) / W3 PTFE-impregnated (non-stick) polyester fabric. Suitable for smoke and fine to medium-fine dust. Washable. Efficiency 99% at 0.5 µm.	12373301*
<b>Filter cartridge,</b> 12 m <sup>2</sup> , PW PTFE-95-12-6 (6-pack) PTFE membrane, laminated on polyester fabric. For small to medium-sized particles. Washable. Efficiency 99.9% at 0.5 µm.	12375387*
<b>Filter cartridge,</b> 10 m <sup>2</sup> , antistatic, PWA-95-10-6 (6-pack) Aluminium-coated polyester fabric. Suitable for explosive medium to coarse particles. Washable. Efficiency 99% at 0.5 µm.	12372749*
<b>Filter cartridge,</b> 10 m <sup>2</sup> , antistatic, PWA PTFE-95-10-6 (6-pack) Aluminium-coated polyester fabric, laminated with a PTFE membrane. Suitable for explosive medium to coarse particles. Washable. Efficiency 99.9% at 0.5 µm.	12373337*

\* May only be ordered with FilterMax DF.

### Accessories

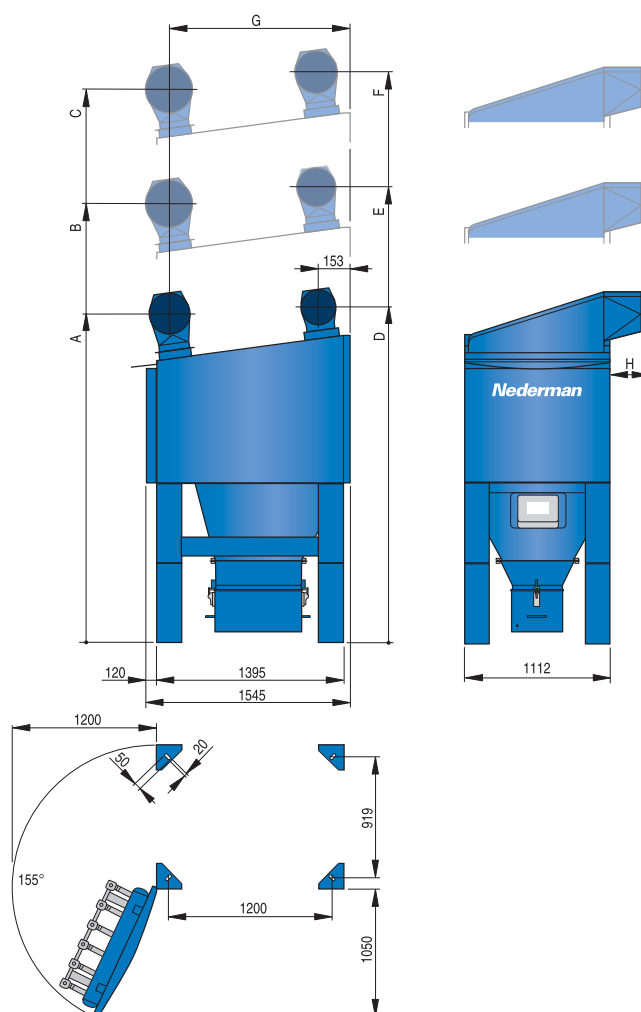
Description	FilterMax DF Part no.
Extra dust container, 50 litres.	12373547
Extra dust container (incl. lid), 100 litres.	12373899
<b>dP control set</b> Used for controlling the cleaning more efficiently and with better supervision. Saves pressured air in some applications with intermittent load. Equipped with alarm function so for high pressure drop over the filter cartridges.	12373603
<b>Shut-off valve</b> Ventilation shut-off valve. Should be installed in the compressed air line. Used to shut off compressed air while the system is being serviced.	12372083
<b>Pressure switch for compressed air</b> Protects the filter from damage when used without compressed air. May not be placed in areas at risk of explosion.	12372142
<b>Filter regulator</b> Used to set the right air pressure. Separates dust from compressed air, which means it also protects the valves. Should be installed in the compressed air line. May only be placed in a frost-free environment.	12372064
<b>Pressure meter</b> The set measures pressure drop across the filter cartridges. Mounted on FilterMax stand.	12372063
<b>Filter module</b> <b>Filter module</b> for extra capacity, max. 4 modules in a unit.	12373660
<b>FilterMax DF W3 kit</b> contains dP control set, filter regulator, shut-off valve, indicator light and plastic bags for dust container. With this set, the FilterMax DF is BGIA certified for welding fume class W3, according to the EN ISO 15012-1 standard.	12375080



# FilterMax DF

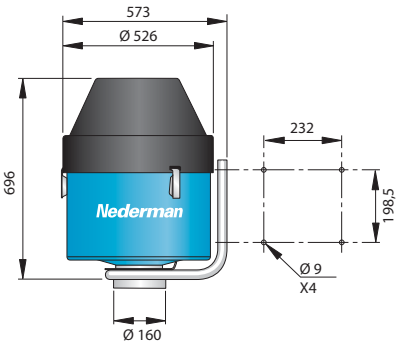
	Internal diameter inlet/outlet (mm)			
	250	315	400	500
A	-	2 615	2 685	2 810
B	-	3 535	3 605	3 730
C	-	-	4 525	4 650
D	2 590	2 700	-	-
E	3 510	3 620	3 690	-
F	-	4 540	4 610	4 740
G	-	1 195	1 195	1 195
H	270	315	390	440

N.B. Height measurement applies to a 50-litre container.  
If a 100-litre container is used, add 450 mm.



Model	DF 40	DF 80	DF 120
Weight	630 kg	900 kg	1200 kg
No. of filter cartridges	6	12	18
Total filter surface	72 m <sup>2</sup> 60 m <sup>2</sup> (antistatic)	144 m <sup>2</sup> 120 m <sup>2</sup> (antistatic)	216 m <sup>2</sup> 180 m <sup>2</sup> (antistatic)
Airflow (depending on load and application)	2 200–4 300 m <sup>3</sup>	4 300–8 600 m <sup>3</sup>	6 500–13 000 m <sup>3</sup>
Compressed air requirement	4 to 6 bar, free from oil and water		
Compressed air consumption	70 N-litre/min at 30 second intervals, 35 N-litre/cleaning pulse		
Voltage supply	100 V, 120 V, 230 V, 50/60 Hz		
Ambient temperature	-20 °C to +60 °C		
Temperature of process air (dry)	0 °C to +60 °C, non-condensing		
Dimensioned pressure drop	1200 Pa		
Filtration	99% or 99.9% (PTFE filter) at 0.5 µm (after a period in operation)		
Description of material	3 mm painted steel, epoxy-based zinc base colour and top coat		
Environmental classes	C4 = high corrosion risk, outdoors, polluted urban areas and coastal regions		
Installation	Indoors/outdoors		
Protection class	IP 54		
Relay voltage, accessories	24 V AC, max. 60 VA		
Working pressure	0 to -5 kPa, no overpressure		
Pulsating noise	50 dB LpAeq, 30 s		
Noise level	DF 40: 50 dB(A), DF80: 63 dB(A), DF120: 73 dB(A)		

# NOM 4 Oil mist filter



The NOM 4 is an oil mist filter in compact design and therefore suitable for enclosed cabinet single CNC machines. The unit is easy to install and enables maximum flexibility in the workshop, as it is normally installed on top of the machine. The NOM 4 is suitable for emulsions and pure oils.

- Superior filtration efficiency.
- Low maintenance costs.
- Self-draining filter.
- Integrated fan.



Model	Max. airflow, m³/h	Main filter surface, m²	HEPA filter surface, m²	Fan	Voltage, V	No. of phases	Power, kW	Current, A	Part no.
NOM 4	400	3	no	yes	230	1	0.37	3.15	12610368
NOM 4	400	3	5,5	yes	230	1	0.37	3.15	12610468
NOM 4	400	3	no	yes	400/230	3	0.37	1.0/1.75	12610568
NOM 4	400	3	5,5	yes	400/230	3	0.37	1.0/1.75	12610668

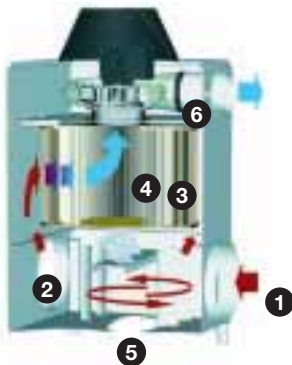
Motor damper and fan starters - see separate sections.

	Accessories	Part no.
1	Drip collector	12373657
2	Machinery stand, including damper	12373705
3	Wall bracket	10504035
4	Pressure gauge kit, measures pressuredrop over the filter cartridges.	12373656



# NOM 11 Oil mist filter

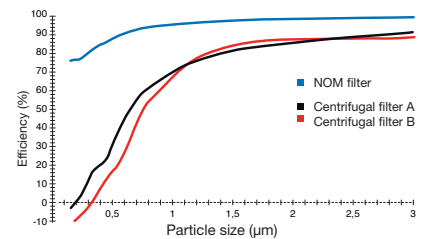
- Superior filtration efficiency.
- Low maintenance costs.
- Very little space needed.
- Self-draining filter.
- Integrated fan.



1. The contaminated air from the process is drawn into the lower chamber.
2. The air starts to spin when it passes over the turbulator plates, and large drops of oil are extracted.
3. Main filter picks up most of the larger particles. It has a self-draining function, which means that the filter can handle large quantities of emulsion. Main filter is washable.

The filters in the NOM series are intended for machines that punch and press steel sheet, for industrial washing machines, for abrasive water-cooled cutting, etc. In all metal fabrication processes where there are problems with oil mist, these filters can be mounted in a pipework system connected to the machines. All units are fitted with fans and pressure meters to control the filter condition, giving an indication of when the filter needs to be cleaned. Suitable for emulsions and pure oils.

4. The HEPA filter meets official requirements for effective cleaning. All NOM filters can therefore be fitted with HEPA filters. The HEPA filter is not washable.
5. Drainage pipe. The oil runs back into a collection tank or into the machine.
6. Built-in fan.

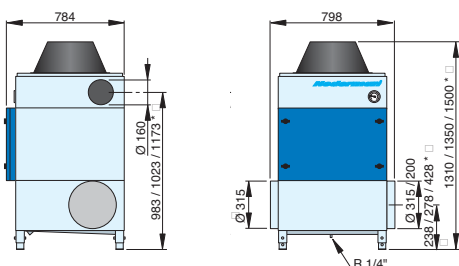


Efficiency of NOM main filter compared to typical centrifugal filters, tested with DOP.

Model	Fan	Voltage, V	Phase	HEPA filter, m <sup>2</sup>	Power, kW	Current, A	Filter surface, m <sup>2</sup>	Max. airflow m <sup>3</sup> /hr	Part no.
NOM 11	yes	230	1	no	0,75	5	8,5	1 100	12620168
NOM 11	yes	230	1	16	0,75	5	8,5	1 100	12620268
NOM 11	yes	400/230	3	no	0,75	1,73/3,0	8,5	1 100	12620568
NOM 11	yes	400/230	3	16	0,75	1,73/3,0	8,5	1 100	12620668
NOM 11	no			no			8,5	1 100	12621168
NOM 11	no			16			8,5	1 100	12621268

	Accessories	For NOM 11	Part no.
1	Silencer	x	12373649
2	Container with water and oil trap, available in various designs	x	12373651
3	Hose with oil trap	x	12373652

## NOM 11



\*) Depends on length of extension leg.



# NOM 18 and 28 Oil mist filter



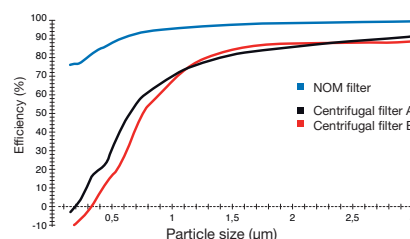
The filters in the NOM series are intended for machines that punch and press steel sheet, for industrial washing machines, for abrasive water-cooled cutting, etc. In all metal fabrication processes where there are problems with oil mist, these filters can be mounted in a pipework system connected to the machines.

All units are fitted with pressure meters to monitor the filter condition, giving an indication of when the filter needs to be cleaned. Suitable for emulsions and pure oils.

- Superior filtration efficiency.
- Low maintenance costs.
- Made to take up very little space.
- Self-cleaning filter.
- Easy to install.



1. The contaminated air from the process is drawn into the lower chamber.
2. The air starts to spin when it passes over the turbulator plates, and large drops of oil are extracted.
3. Main filter picks up most of the larger particles. It has a self-draining function, which means that the filter can handle large quantities of emulsion. Main filter is washable.
4. The HEPA filter meets official requirements for effective cleaning. All NOM filters can therefore be fitted with HEPA filters. The HEPA filter is not washable.
5. Drainage pipe. The oil runs back into a collection tank or into the machine.
6. Built-in fan.

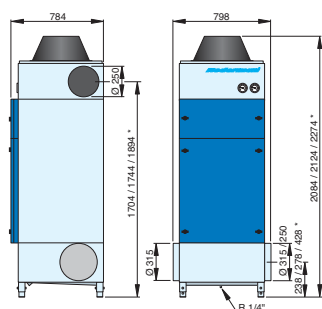


Efficiency of NOM main filter compared to typical centrifugal filters, tested with DOP.

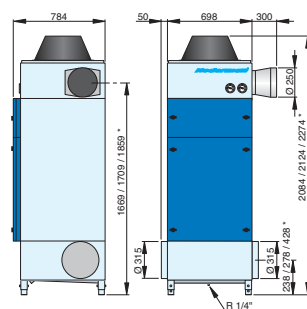
Model	Fan	Voltage, V	Phase	HEPA filter, m <sup>2</sup>	Power, kW	Current, A	Filter surface, m <sup>2</sup>	Max. airflow, m <sup>3</sup> /hr	Part no.
NOM 18	yes	230	1	no	1,1	6,7	14	1 800	12630168
NOM 18	yes	230	1	24	1,1	6,7	14	1 800	12630268
NOM 18	yes	400/230	3	no	1,1	2,45/4,3	14	1 800	12630568
NOM 18	yes	400/230	3	24	1,1	2,45/4,3	14	1 800	12630668
NOM 18	no			no			14	1 800	12631168
NOM 18	no			24			14	1 800	12631268
NOM 28	yes	400/230	3	no	2,2	4,56/7,9	21	2 800	12640568
NOM 28	yes	400/230	3	40	2,2	4,56/7,9	21	2 800	12640668
NOM 28	no			no			21	2 800	12641168
NOM 28	no			40			21	2 800	12641268

Accessories		For NOM 18	For NOM 28	Part no.
1	Silencer	x		12373650
2	Container with water and oil trap, available in various designs	x	x	12373651
3	Hose with oil trap	x	x	12373652

## NOM 18



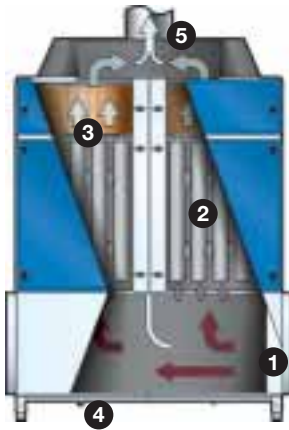
## NOM 28



\*) Depends on length of extension leg.



# NOM 112 Oil mist filter

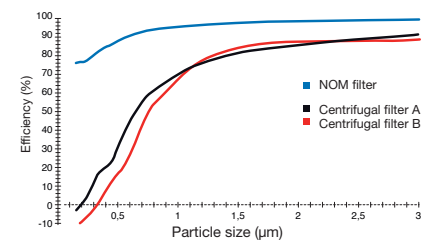


The filters in the NOM series are intended for machines that punch and press steel sheet, for industrial washing machines, for abrasive water-cooled cutting, etc. In all metal fabrication processes where there are problems with oil mist, these filters can be mounted in a pipework system connected to the machines. All units are fitted with pressure meters to monitor the filter condition, giving an indication of when the filter needs to be cleaned. Suitable for emulsions and pure oils.



1. The contaminated air from the process is drawn into the lower chamber.
2. Main filter picks up most of the larger particles. It has a self-draining function, which means that the filter can handle large quantities of emulsion. Main filter is washable.
3. The HEPA filter meets official requirements for effective cleaning. All NOM filters can therefore be fitted with HEPA filters. The HEPA filter is not washable.
4. Drainage pipe. The oil runs back into a collection tank or into the machine.
5. Connection to central fan system.

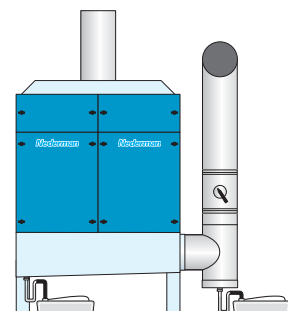
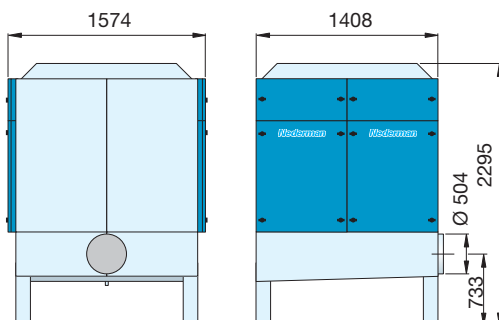
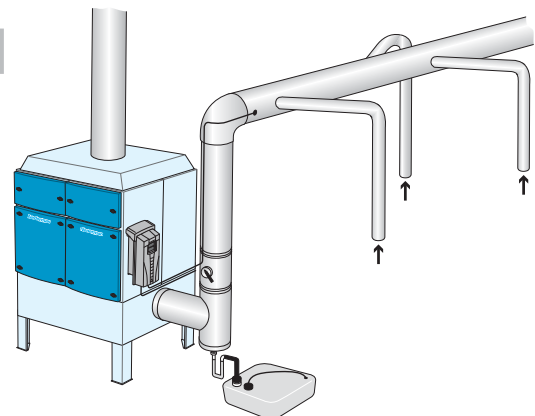
- High capacity 10 000 m<sup>3</sup>/h.
- Superior filtration efficiency.
- Self-cleaning filter.



Efficiency of NOM main filter compared to typical centrifugal filters, tested with DOP.

Model	Filter surface, m <sup>2</sup>	Max. airflow, m <sup>3</sup> /h	Fan	HEPA filter, m <sup>2</sup>	Part no.
NOM 112	84	10 000	no	no	12670168
NOM 112	84	10 000	no	160	12670268

Accessories	For NOM 112	Part no.
1	Container with water and oil trap, available in various designs	12373651
2	Hose with oil trap	12373652



# Spare parts filters

		Main filter	HEPA filters	No.
Model	Product no.	Replacement part no.	Replacement part no.	
NOM 4	12610368	12373653	12373645	1
NOM 4	12610468	12373653	12373645	1
NOM 4	12610568	12373653	12373645	1
NOM 4	12610668	12373653	12373645	1

		Main filter	HEPA filters	No.
Model	Product no.	Replacement part no.	Replacement part no.	
NOM 11	12620168	12373654	12373646	1
NOM 11	12620268	12373654	12373646	1
NOM 11	12620568	12373654	12373646	1
NOM 11	12620668	12373654	12373646	1
NOM 11	12621168	12373654	12373646	1
NOM 11	12621268	12373654	12373646	1

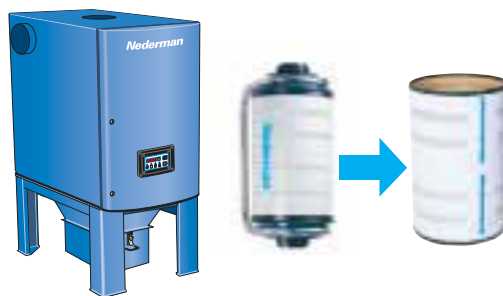
		Main filter	HEPA filters	No.
Model	Product no.	Replacement part no.	Replacement part no.	
NOM 18	12630168	12373655	12373647	1
NOM 18	12630268	12373655	12373647	1
NOM 18	12630568	12373655	12373647	1
NOM 18	12630668	12373655	12373647	1
NOM 18	12631168	12373655	12373647	1
NOM 18	12631268	12373655	12373647	1

		Main filter	HEPA filters	No.
Model	Product no.	Replacement part no.	Replacement part no.	
NOM 28	12640568	12373680	12373648	1
NOM 28	12640668	12373680	12373648	1
NOM 28	12641168	12373680	12373648	1
NOM 28	12641268	12373680	12373648	1

		Main filter	HEPA filters	No.
Model	Product no.	Replacement part no.	Replacement part no.	
NOM 112	12670168	12373680	12373648	4
NOM 112	12670268	12373680	12373648	4

		Particle filter without console	Micro/HEPA filter without console	Gas filter without console
Model	Product no.	Replacement part no.	Replacement part no.	Replacement part no.
MFS	12600144	12600711		
MFS	12600444		12603361	
MFS	12600544			12603461

FilterMax		PW NS standard / W3	PW PTFE	PWA antistatic	PWA PTFE antistatic	No.	Plastic bags (10) 950x950x0.15	Plastic bags (10) 950x1400x0.15
Model	Product no.	Replacement part no.	Replacement part no.	Replacement part no.	Replacement part no.		Replacement part no.	Replacement part no.
C25	12630167	12373270	12373324	12373302	12373336	1	12375166	
C25	12630767	12373270	12373324	12373302	12373336	1	12375166	
F 30	12603567	12372055	12372060			1	12375166	12375167
F 60	12606567	12372055	12372060			2	12375166	12375167
F 90	12609567	12372055	12372060			3	12375166	12375167
DF 40	12620467	12373271	12373559	12372773	12373338	1	12375166	12375167
DF 80	12620567	12373271	12373559	12372773	12373338	2	12375166	12375167
DF 120	12620667	12373271	12373559	12372773	12373338	3	12375166	12375167



Part. No.	FMC Filter Cartridge	Part. No.	MJC Filter Cartridge
17031.200	CA175-90F L=850MM	17051.200	CA175-90F L=850MM
17031.220	CA 100-40F L=850 MM	17051.220	CA 100-40F L=850 MM
17031.230	CA140-40F L=850MM	17051.230	CA140-40F L=850MM
17031.240	CA190-40F L=850MM	17051.240	CA190-40F L=850MM
17031.300	CA175-145F L=1370	17051.300	CA175-145F L=1370
17031.320	CA100-66F L=1370	17051.320	CA100-66F L=1370
17031.330	CA140-66F L=1370	17051.330	CA140-66F L=1370
17031.340	CA190-66F L=1370	17051.340	CA190-66F L=1370
17031.520	CA100-22F L=500	17051.520	CA100-22F L=500
17031.530	CA140-22F L=500	17051.530	CA140-22F L=500



## Mobile filters are a quick and flexible way to improve a workplace.

Mobile filters are a practical and cost-effective way to improve a workplace in no time at all. The units contain everything you need to extract dust and fumes at source, and are available in many different sizes and capacities.

Whichever filter you choose, you will get the best of its kind and the highest quality. Nederman is a world leader in systems to handle dust and fumes, with more than 60 years' experience.



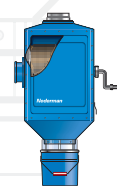
## MOBILE FILTERS

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# PRODUCT GUIDE

## Mobile filters

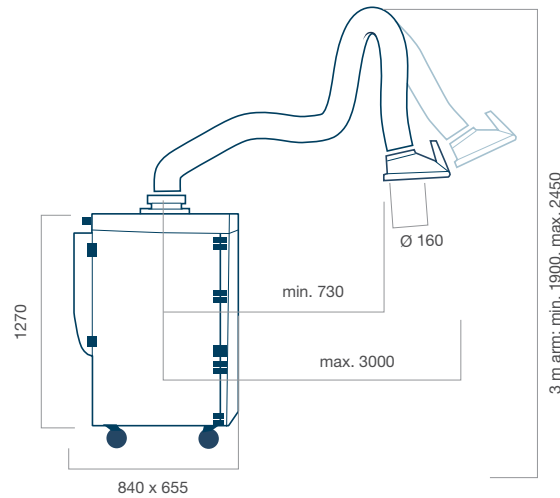


	FilterCart Original	FilterCart W3	FilterCart Carbon	Weld filter C10	Weld filter C20	FilterBox
<b>Industrial needs</b>	Light welding fumes	Light welding fumes	Smells, gases, smoke and organic solvents	Light welding fumes	Light welding fumes	Welding fumes and dust
<b>Air volume, m³/hr</b>	1050	1050	600	900	2 x 900	1000 - 1200
<b>Filter surface, m²</b>	35	35	20 kg activated carbon	12	2 x 12	13-15
<b>Filtration efficiency</b>	99%	99%	-	99%	99%	99%, or 99.9%
<b>Filter material</b>	Cartridge	Cartridge	Activated carbon	Cartridge	Cartridge	Cartridge
<b>Cleaning method</b>	Disposable filter	Disposable filter	Disposable filter	Compressed air cleaning	Compressed air cleaning	Mechanical and compressed air cleaning
<b>Cleaning</b>	-	-	-	During downtime	During downtime	During downtime
<b>Filter type</b>	Overpressure	Overpressure	Overpressure	Vacuum	Vacuum	Vacuum
<b>Position</b>	Indoors	Indoors	Indoors	Indoors	Indoors	Indoors
<b>Page-no.</b>	50	51	51	49	49	52



# Weld filters C10 and C20 Mobile extraction/filter units

The mobile WeldFilter units C10 and C20 are used for the extraction and filtration of lighter welding fumes.



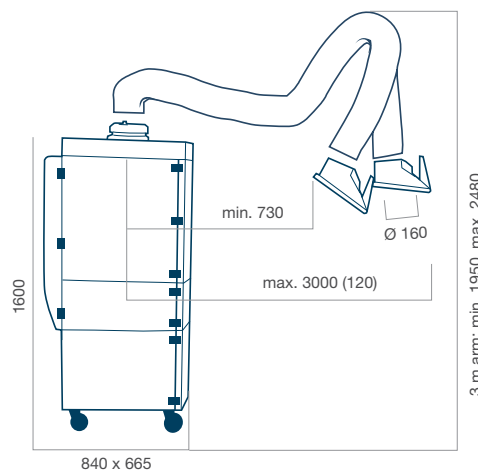
## Weld filter C10

- Easy to move and position.
- Includes 3 m long extraction arm, Original.
- Cleanable filter with high filtration efficiency, easy to exchange.
- Service hour meter.
- Low airflow alarm (time to clean or replace the filter cartridge).
- BGIA certified for welding fume class W3, according to the EN ISO 15012-1 standard.

Arm length m	Arm Ø, mm	Max. airflow, <sup>1)</sup> m³/hr	Filtration efficiency %	Filter surface, m²	Voltage, Voltage/ electric plug	Power, kW	Frequency, Hz	No. of phases	Noise level dB (A)	Weight, kg	Part no.
3	160	500-900	≥ 99	12	230/EUR/UK <sup>2)</sup>	1,1	50	1	72	175	12620151
3	160	500-900	≥ 99	12	400/EUR <sup>3)</sup>	1,1	50	3	72	175	12620251

1) Max. 1 100 m³/hr without extraction arm. 2) UK plug supplied separately. 3) Excl. plug.

Accessories	Part no.
Spark protection, for mounting in hood. Reduces risk of fire.	10551335



## Weld filter C20

- Easy to move and position.
- Includes two 3 m long extraction arms, Original.
- Two cleanable filters with high filtration efficiency, easy to exchange.
- Service hour meter.
- Low airflow alarm (time to clean or replace the filter cartridge).

Arm length, m	Arm Ø, mm	Max. airflow, <sup>1)</sup> m³/hr	Filtration efficiency, %	Filter surface, m²	Voltage, Voltage/ electric plug	Power, kW	Frequency, Hz	No. of phases	Noise level dB(A)	Weight, kg	Part no.
3	160	2 x 500-900	≥ 99	2x12	400/EUR <sup>2)</sup>	2,2	50	3	75	245	12621151

<sup>1)</sup> Max. 2 x 1100 m³/hr without extraction arms.

<sup>2)</sup> Excl. plug.

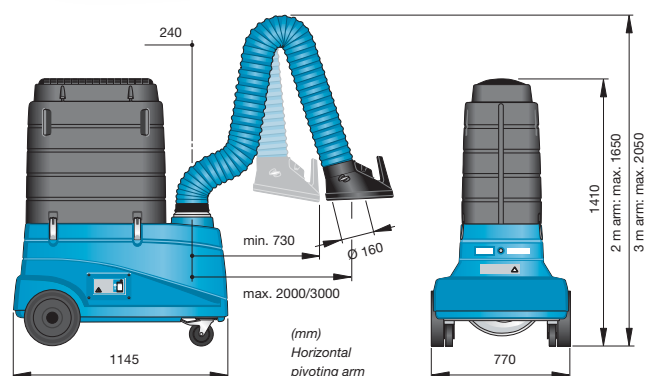
Accessories	Part no.
Spark protection, for mounting in hood. Reduces risk of fire.	10551335

## FilterCart Mobile extraction/filter units



### FilterCart Original

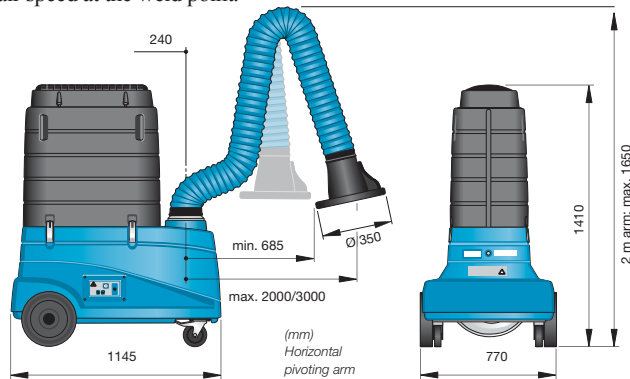
FilterCart Original mobile filter unit for light welding and extraction applications. FilterCart Original includes an Original extraction arm with an integrated spotlight, which optimizes the user-friendly design. If a larger working range is needed, the 3 m long arm is recommended.



# FilterCart Mobile extraction/filter units

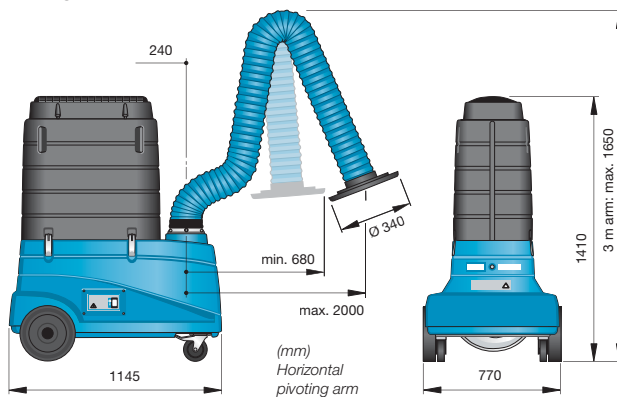
## FilterCart W3

The FilterCart W3 mobile filter unit for extraction applications in light production facilities is very advanced, with every conceivable function. This includes a warning signal when the filter is full. The W3 model meets the legal requirements for W3 in BGIA. The specially designed metal hood with integrated spotlight provides maximum air speed at the weld point.



## FilterCart Carbon

The FilterCart Carbon is a mobile filter unit specially designed for extracting foul smells. The FilterCart Carbon is supplied with the Standard extraction arm and can be fitted with HEPA filters for maximum efficiency. Applications: solvents, vapours and other gaseous contaminants.



Model	Arm length, m	Arm Ø, mm	Max. airflow, m³/h	Filtration efficiency, %	Filter surface, m²	Voltage, V /electric plug	Power, kW	Frequency, Hz	No. of phases	Noise level, dB (A)	Weight, kg	Lighting Included	Part no.
Original	2	160	1050	99	35	230/EUR	0,75	50	1	73	73	Yes	12621245
Original	3	160	1050	99	35	230/EUR	0,75	50	1	73	73	Yes	12621345
Original	3	160	1050	99	35	230/EUR	0,75	50	1	73	73	No	12621445
W3	2	160	600-1050	99	35	230/EUR	0,75	50	1	73	73	Yes	12631245
W3	3	160	600-1050	99	35	230/EUR	0,75	50	1	73	73	Yes	12631345
Carbon	2	160	600	99	20 kg activated carbon	230/EUR	0,55	50	1	74	82	No	12641245

Accessories	Part no.
HEPA filter, 7.5 m² high-efficiency final filter, class H13.	12374016
Original spark protection, for mounting in hood. To reduce risk of fire.	10551335
W3 spark protection, for mounting in hood. To reduce risk of fire.	12375241

# FilterBox Modular extraction/filter system

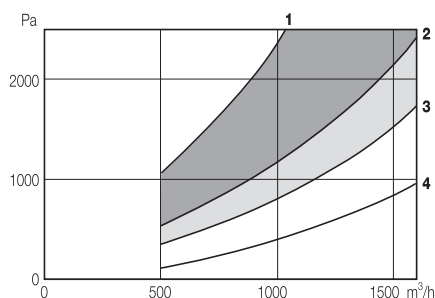


Complete mobile FilterBox unit with Original extraction arm.

FilterBox is a system that solves most problems concerning the extraction and filtration of welding fumes and dust. Can be combined to work as a single mobile unit or as a fixed modular unit with expandable capacity. Filter cleaning is manual, semi-automatic or fully automatic (compressed air cleaning) depending on model. Special model for the food, medical or chemical industry. All features below apply to the standard model. Accessories can be attached for individual applications - see next page.

- Mobile units or fixed wall/floor installations.
- Complete kits or modules for customization.
- Manual, semi-automatic or fully automatic filter cleaning.

## Pressure drop

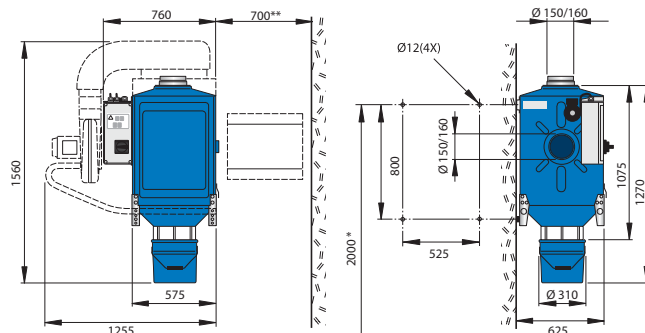


The pressure drop across the FilterBox varies with airflow and dust load. Maintaining a certain average airflow with increasing dust load requires a shorter interval between cleaning.

- 1) heavy load
- 2) light load, welding
- 3) light load, dust
- 4) clean filter cartridge

Grey areas show average operating range

Description	Noise level, dB(A)
FilterBox with silencer, 3 m arm, fan N24	61
FilterBox with silencer, 3 m arm, fan N29	68
FilterBox without silencer, 3 m arm, fan N24	72
FilterBox without silencer, 3 m arm, fan N29	75



\*) Recommended mounting height from floor.

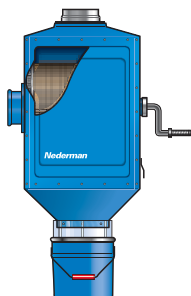
\*\*) Minimum distance from wall to replace filter cartridge. Manual filter cleaning.

## Complete units for fixed or mobile installation

Type of kit	Kit consists of	Weight, kg	Part no.
<b>Wall mounted Basic filter</b>	Standard filter PW13 + Original arm 3 m + Fan N24, 3- phase, 230/400V, 50 Hz, 0.9 kW. N.B. Silencer not included	140	12640663
<b>Wall mounted Standard filter</b>	Standard filter PW13, 3-phase, 400 V + Original arm 3 m + fan N29, 3-phase, 230/400 V, 50 Hz, 2.2 kW + silencer	165	12640963
<b>Wall mounted Monitor filter</b>	Standard filter PW13, 3-phase, 400 V + Original arm 3 m (incl. light) + Fan N29, 3-phase, 230/400 V, 50 Hz, 2.2 kW + silencer	170	12641263
<b>Floor mounted Basic filter</b>	Standard filter PW13 + Original arm 3 m + Fan N24, 3-phase, 230/400V, 50 Hz, 0.9 kW. N.B. Silencer not included	140	12640563
<b>Floor mounted Standard Filter</b>	Standard filter PW13, 3-phase, 400 V + Original arm 3 m + fan N29, 3-phase, 230/400 V, 50 Hz, 2.2 kW + silencer	165	12640863
<b>Floor mounted Monitor Filter</b>	Standard filter PW13, 3-phase, 400 V + Original arm 3 m + fan N29, 3-phase, 230/400 V, 50 Hz, 2.2 kW + silencer	170	12641163
<b>Mobile Basic Filter unit</b>	Standard filter PW13 + Original arm 3 m + Fan N24, 3-phase, 230/400V, 50 Hz, 0.9 kW. N.B. Silencer not included	140	12640763
<b>Mobile Standard Filter unit</b>	Standard filter PW13, 3-phase, 400 V + Original arm 3 m (incl. light) + fan N29, 3-phase, 230/400 V, 50 Hz, 2.2 kW + silencer	165	12641063
<b>Mobile Monitor Filter unit</b>	Standard filter PW13, 3-phase, 400 V + Original arm 3 m (incl. light) + fan N29, 3-phase, 230/400 V, 50 Hz, 2.2 kW + silencer	170	12641363

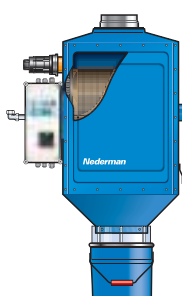


## FilterBox Basic



Manual filter cleaning with hand crank. For simple welding and dust applications not requiring automation. N.B. When connected to a fan, a separate starter is needed.

## FilterBox Monitor



Fully automated mechanical filter cleaning, normally combined with compressed air cleaning. For heavy duty welding applications.

## FilterBox Basic

Filter cartridge	Weight, kg	Part no.
PW13	65	12600163
PW13 (white)	65	12606263

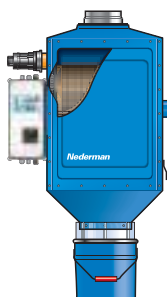
## FilterBox Monitor

Filter cartridge	Filter cleaning	Voltage, V	Phases*	Weight, kg	Part no.
No filter	Motor + compressed air	400	3	65	12640463
PW13	Motor + compressed air	400	3	65	12642463

## FilterBox Standard

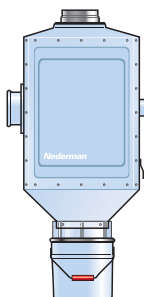
Filter cartridge	Filter cleaning	Voltage, V	Phases*	Weight, kg	Part no.
No filter	Motor	400	3	65	12630463
PW13	Motor	110	1	65	12631063
PW13	Motor	230	1	65	12631163
PW13	Motor	230	3	65	12631363
PW13	Motor	400	3	65	12631463
PW13	Motor + compressed air	230	1	65	12632163
PW13	Motor + compressed air	400	3	65	12632463
PWHE15	Motor + compressed air	400	3	65	12635463

## FilterBox Standard



Semi-automated filter cleaning with manual start-up. Can be combined with compressed air cleaning. For welding and dust applications.

## White



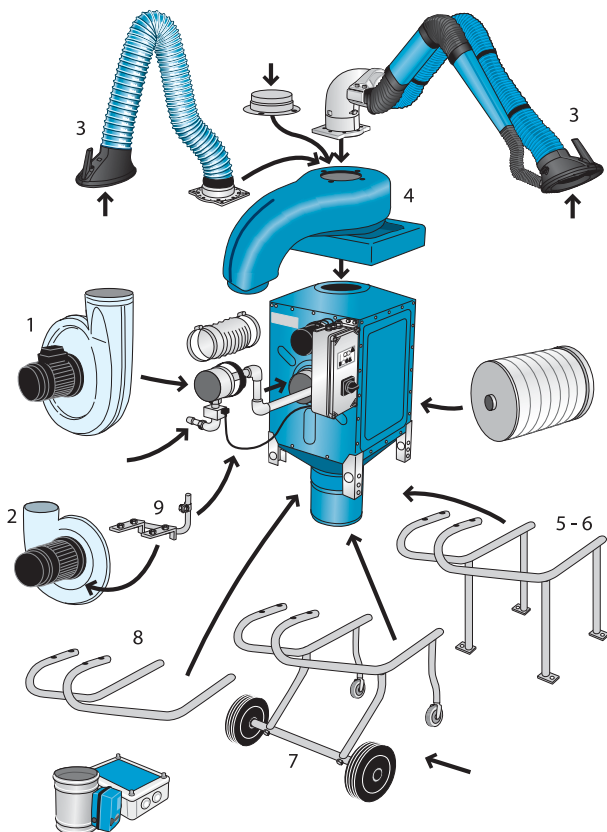
The FilterBox unit is also available in white for applications in the food and chemical industries.

## White

Filter cartridge	Filter cleaning	Voltage, V	Phases*	Weight, kg	Part no.
PW13	Motor	230	1	65	12633163
PW13	Motor	230	3	65	12633363
PW13	Motor	400	3	65	12633463
PWA HE15 (antistatic)	Motor	400	3	65	12637463

\*) Motor protector included.

## Possible combinations



	Accessories	Part no.
1	Fan N29 for heavy duty and long pipework systems 1000-1200 m³/h, 2,2 kW, 220 - 240 / 380 - 420 V, 3-phase, 50 Hz	14510829
2	Fan N24 for light dust, 800-1000 m³/h, 0.75 kW, 110 - 120 / 220 - 240 V, 1-phase, 50 Hz	14510122
2	Fan N24 for light dust, 800-1000 m³/h, 0.9 kW, 200 - 240 / 280 - 420 V, 3-phase, 50 Hz	14510422
3	Extractor arm, max. length of arm on mobile unit: 3 m. (See separate brochures for Original, NEX MD, and NEX HD arms)	
4	Silencer, blue	12371420
4	Silencer, white	12371569
5	Floor stand for FilterBox with fan	12371422
6	Floor stand for FilterBox connected to central fan	12371423
7	Trolley	12371421
8	Bracket for wall mounting of box with fan	12371424
9	Additional bracket for mounting fan N24 on the FilterBox	12371018
	Cable set, 220/240V, 1-phase	12363606
	Cable set, 110V, 1-phase	12363608
	Cable set, 3-phase	12363609
10	Compressed air cleaning, 4-6 bar	12333354

Replacement filter	Used for	Filtration efficiency, %	Surface, m²	Part no.
PW13	Welding	99	13	12332672
PW HE15	Dust, stainless steel welding	99,90	15	12371106
PWA HE15	Dust (antistatic)	99,90	15	12371412

# Spare parts Mobile filters

For more information on our complete range of replacement parts, please visit our website.

## FilterCart

Model	Product Part no.	Hose Replacement part no.	Wear set Replacement part no.	Filter cartridge Replacement part no.
Original	12621245	10341859	10344540	12374023
	12621345	10333026	10344540	12374023
W3	12631245	10341859	10344540	12374023
	12631345	10333026	10344540	12374023
Carbon	12641245	10341859	10344540	12374025



FilterCart.

## FilterBox

Product Part no.	Filter cartridge Replacement part no.	Storage sealing kit Replacement part no.	Cleaning spring kit Replacement part no.
12600163	12332672	12373960	12332352
12606263	12332672	12373960	12332352
12640463	*)	12373960	12332352
12642463	12332672	12373960	12332352
12630463	*)	12373960	12332352
12631063	12332672	12373960	12332352
12631163	12332672	12373960	12332352
12631363	12332672	12373960	12332352
12631463	12332672	12373960	12332352
12632163	12332672	12373960	12332352
12632463	12332672	12373960	12332352
12635463	12371106	12373960	12332352
12633163	12332672	12373960	12332352
12633363	12332672	12373960	12332352
12633463	12332672	12373960	12332352
12637463	12371412	12373960	12332352

\*) See replacement filter cartridges, page 49.



FilterBox.

## C10 and C20

Model	Product Part no.	Filter cartridge Replacement part no.	Plastic bags (10) Replacement part no.	No.
C10	12620151	12375379	12375392	1
C10	12620251	12375379	12375392	1
C20	12621151	12375379	12375392	2



Weld filter C10.

Weld filter C20.



## FANS

### Fans for every need.

Our range includes strip fans and a wide choice of fans for fumes and exhaust gases, including a comprehensive list of accessories with everything from fan inverters supplied from stock to silencer boxes.

### New! Combifab-F with higher efficiency.

Now we are launching Combifab-F. A completely new series of fans with higher efficiency, in various sizes. The series covers flows from 200 m<sup>3</sup>/h to 200 000 m<sup>3</sup>/h and pressures up to 20 kPa. The unique thing about the Combifab-F is that it can be adapted to many possible requirements. High temperature applications are possible up to 250 °C with a cooling disc on the shaft.

55

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# PRODUCT GUIDE

Fans



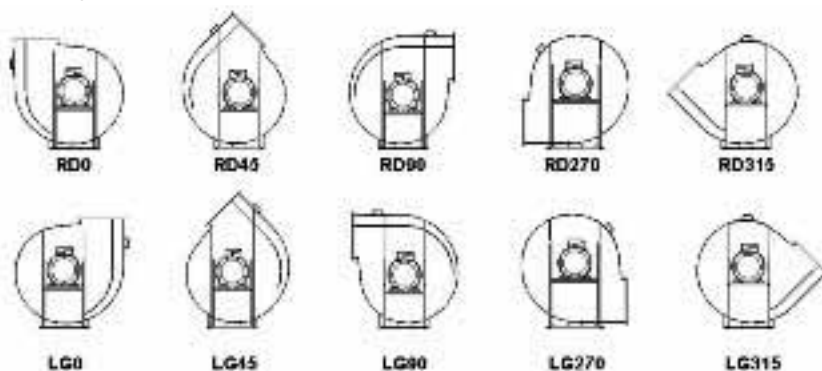
	COMBIFAB-F	RFA	N-SERIES
<b>Impeller</b>	R/S/T	Knife-edges	Impeller with radial tip blades
<b>Application, transport of:</b>	R - Clean air welding fumes, oil mist, exhaust gas, fumes, high temp. S - grinding and polishing dust T - swarf and chips	Shredding of strips	Transport of welding fumes, dust and exhaust gases
<b>Belt-drive/ direct-drive</b>	X/X	/X	/X
<b>Airflow, m³/h</b>	200 - 200.000	300-3 000	500 - 4000
<b>Pressure, Pa</b>	< 20 000	< 5 000	<3100
<b>Power, kW</b>	<500	2.2 - 11.0	0.55 - 2.2
<b>Temp. range</b>	-20 - +250 °C max. ambient temp. 50 °C	-20 - +70 °C max. ambient temp. 50 °C	+60 °C max. ambient temp. 40 °C
<b>Standard colour</b>	RAL 5009	RAL 9001	NCS 1005-B20G
<b>Fan position, standard</b>	RDO	RDO	
OPTIONS			
<b>Silencer</b>	√	√	
<b>Inspection door</b>	√	√	
<b>Drainage</b>	√	√	
<b>Spark-free inlet</b>	√		
<b>ATEX</b>	√		
<b>Temp./ RPM monitoring</b>	√	√	
<b>Page no.</b>	57	80	82



# Impeller

The design of the three different types of impeller has been enhanced using an advanced computer program. This new concept in the design of the fan inlet is one of the secrets behind the COMBIFAB's excellent performance.

## Fan positions acc. to EUROVENT



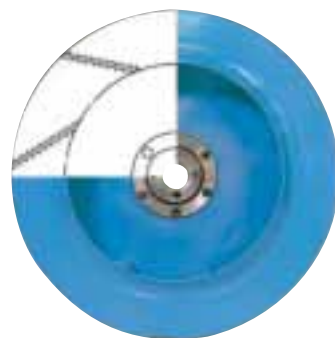
### Clean air impeller - Type R

The clean air impeller is a closed backward inclined impeller. It is used to transport clean air and air with small quantities of fine particles, e.g. welding fumes, oil mist or exhaust gases.

Max. material volume 5 g/m<sup>3</sup>.

Max. material size 2 x 2 x 2 mm.

Clean air impeller provides efficiency up to 87%.



### Swarf impeller - type S

The swarf impeller is a closed partly self-cleaning impeller with backward inclined blades. This impeller is used to transport grinding and polishing dust, dry sawdust, swarf, etc.

Max. material volume 0.1 kg/m<sup>3</sup>.

Max. material size 20 x 20 x 40 mm.

The swarf impeller offers up to 81% efficiency.



### Transport impeller - type T

The transport impeller is an open self-cleaning impeller with straight radial blades. It is used to transport wood shavings and chips etc.

Max. material volume 0.5 kg/m<sup>3</sup>.

Max. material size 20 x 40 x 90 mm.

The transport impeller provides efficiency up to 61%.

## COMBIFAB-Z fan (ATEX)

COMBIFAB fans are also available in ATEX versions for dust and gas.

Design specification		ATEX		
		Non-zone	Inner zone	
Outer zone	Non-zone	Standard fan Standard motor  No marking	COMBIFAB-Z Inspection door  Marking: Ex II 3/- DG T4	COMBIFAB-Z Inlet in copper Inspection door  D1/D2: temp. sensor on ball-bearings  Marking: Ex II 2/- DG T4
	Zone 22	Motor Ex II 3DT4 or Motor Ex II 3GT4  Marking: Ex II -/3 DG T4	COMBIFAB-Z Inspection door Motor Ex II 3DT4 or Motor Ex II 3GT4  Marking: Ex II 3/3 DG T4	COMBIFAB-Z Inlet in copper Inspection door  D1/D2: temp. sensor on ball-bearings Motor Ex II 3DT4 or Motor Ex II 3GT4  Marking: Ex II 2/3 DG T4
	Zone 21	Motor Ex II 2DT4 or Motor Ex II 2GT4  Marking: Ex II -/2 DG T4	COMBIFAB-Z Inspection door Motor Ex II 2DT4 or Motor Ex II 2GT4  Marking: Ex II 3/2 DG T4	COMBIFAB-Z Inlet in copper Inspection door  D1/D2: temp. sensor on ball-bearings Motor Ex II 2DT4 or Motor Ex II 2GT4  Marking: Ex II 2/2 DG T4

# COMBIFAB-F fans

Combifab-F is the new generation of the well-known Combifab series of fans

The fans are available in direct-driven and belt-driven versions with different outlet positions. Each fan consists of a hard-wearing housing, inlet cone, impeller and motor.

The direct-driven fans are fitted either with a flange motor mounted on the casing (D05) or, for larger models, with a flange/foot mounted motor, mounted on a base (D04). The belt-driven fans are supplied with a bearing block and, for smaller models, with motor mounted above the bearing block (BV14).

Larger sizes of belt-driven design are supplied as standard with a low-mounted motor or with a normal base for fan and motor BW09.

## Benefits

- Up to 87% efficiency.
- Low energy consumption.
- Great reliability in operation and low maintenance costs.
- Wide range of fans for most applications.
- Effective noise reduction with silencer hood.
- Also supplied in ATEX version for explosive dust and gases.

## Finish

- Painted steel, RAL 5009 blue.

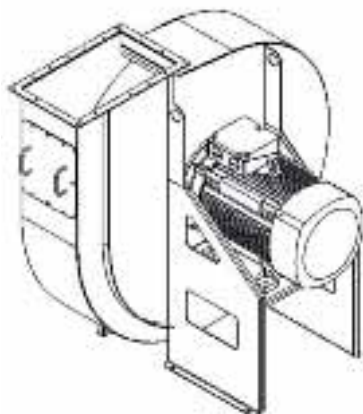
## Optional

- Also supplied in ATEX version for explosive dust and gases.
- High temperature, up to 250°.

## Accessories

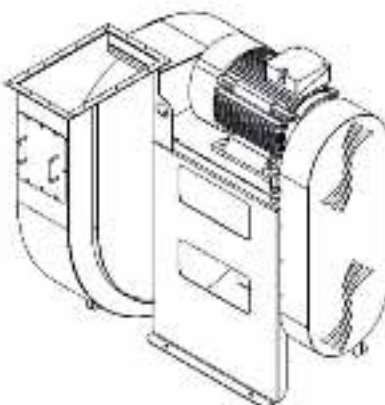
- Silencer box.
- Drain plug.
- Different motor manufacturers.
- Different motor sizes.
- Speed sensor.
- Pressure difference button.
- Vibration damper.
- Flexible connections:
- Additional inspection door on the front.
- Axial seal, labyrinth seal.
- Cooling rotor.
- Fumes blocked with inv. wear cone.
- Frequency inverter.
- Radiation protection.
- Damper.

## Design D04



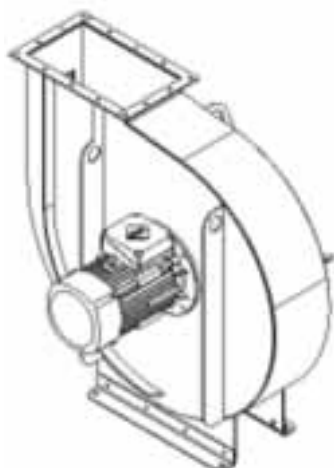
Direct-driven with flange motor and cover.

## Design BV14



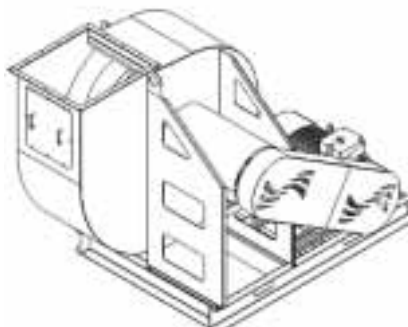
Belt-driven with motor over impeller shaft.

## Design D05



Direct-driven with flange motor.

## Design BW09



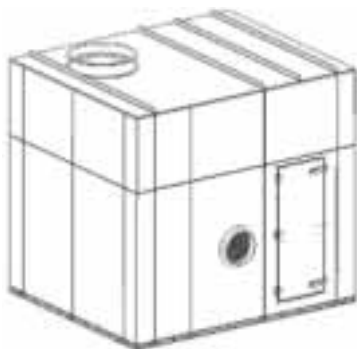
Belt-driven with strong fabricated construction.

## **COMBIFAB-F** Selection of fan size

The "Fan Selector" program enables you to select the right fan size for your job. The "Fan Selector" program is available free on request. Selection of fan size is also possible in the curves on the following pages. Please observe the direct fans are 50 Hz versions but a 60 Hz fan program is also available

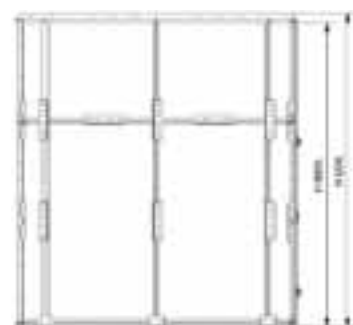
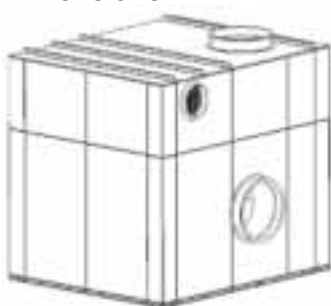


# COMBIFAB-F Silencer box



Silencer boxes are used for fans of type Combifab-F. Intended to dampen noise emissions into the environment. Made of galvanised steel sheet with internal insulation. The box is available in eight different sizes, according to the size of fan you choose. Supplied as standard with large inspection door and inlet and outlet. Needless to say, the silencer box is made for outdoor use.

## Dimensions



Part no.	Type	Width external, mm	Length, mm	Height, mm	Width internal, mm	Length, mm	Height, mm	Weight, kg
30001.401	1	1250	1250	1525	1130	1130	1440	210
30001.402	2	1250	1650	1525	1130	1530	1440	250
30001.403	3	2050	1650	1885	1930	1530	1800	410
30001.404	4	2050	2050	1885	1930	1930	1800	450
30001.405	5	2050	2450	2245	1930	2330	2160	580
30001.406	6	2050	2850	2965	1930	2730	2880	720
30001.407	7	2450	3250	2965	2330	3130	2880	920
30001.408	8	2450	3650	3325	2330	3530	3240	1040

Mounting the fan and silencer box on a flat surface without a base frame reduces the height by 40 mm.

## Type of silencer box.

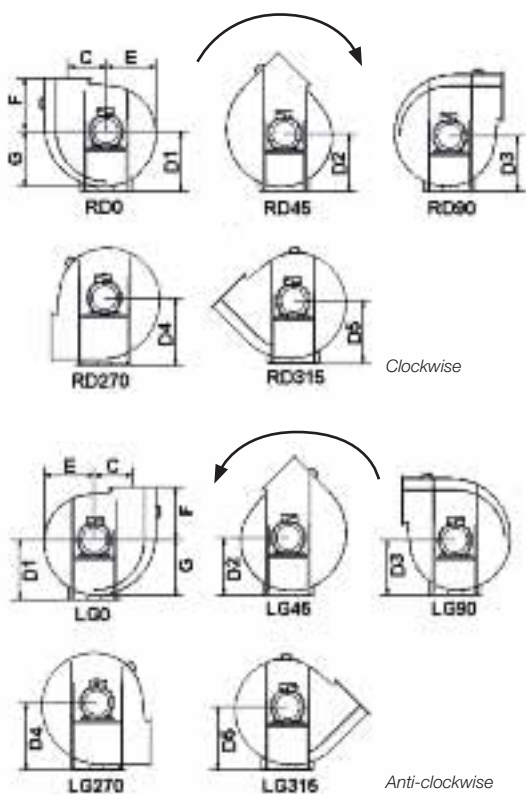
Impeller type	R-S-T	R-S-T	R-S-T	R-S-T	R-S-T	R-S-T
Inlet diameter	F40 BV14	F56 BV14	F40 D05/04	F56 D05/04	F40 BW09	F56 BW09
180			1			
200			1			
224			1	1		
250	2		1	1		
280	2		1	1		
315	2		1	1		
355	3		3	2		
400	3		3	2		
450	4		4	2		
500		3	5	3	6	
560		3	6	3	6	
630		5	6	5	6	6
710				5		6
800				6		7
900				6		7





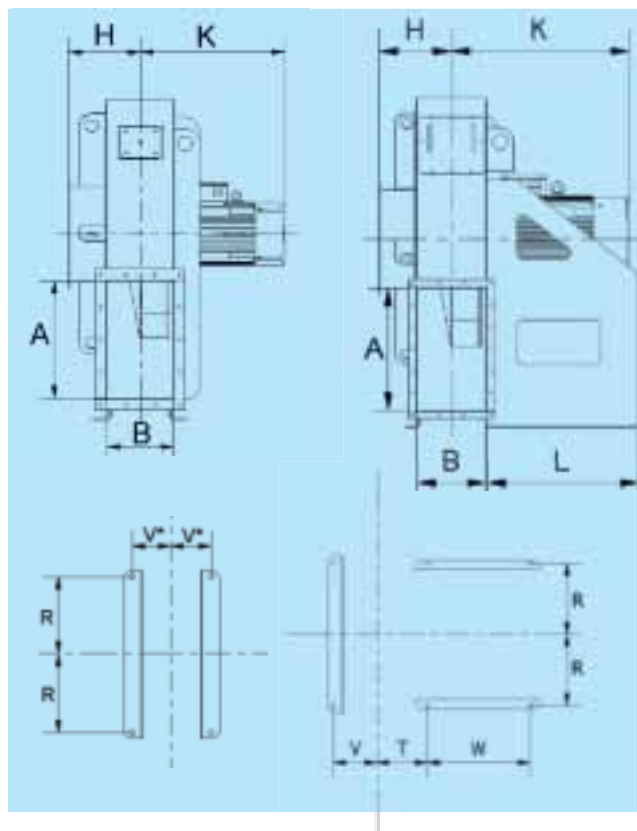
# F40 D05 / D04 dimensions

Positions



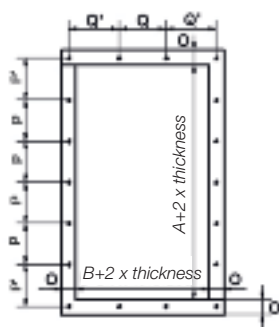
D05

D04

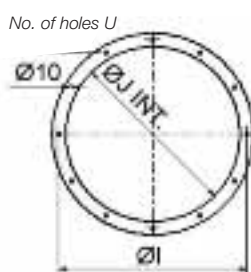


K - depending on motor supplier. See motor catalogue.  
L, W and R - see table on next page.  
V\* - see next page.

Outlet



Inlet



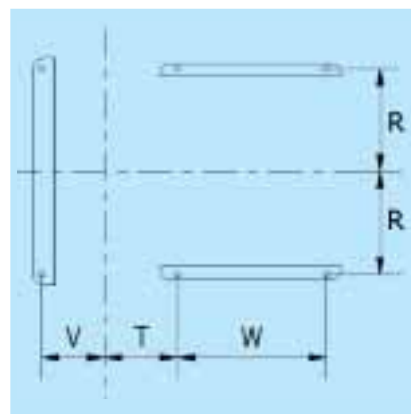
No. of holes U

Size	A	B	C	D1	D2	D3	D4	D5	E	F	G	H	I	J	O	P	P'	Q	Q'	T	U	V
160	200	112	180	310	286	286	339	339	231	240	255	164	192	161	26	116		73			6	
180	224	125	202	340	313	313	372	372	258	269	285	170	212	181	26	86		80			6	
200	252	141	228	376	346	346	412	412	291	303	321	178	232	203	26	94	95	87			6	
224	282	158	255	413	380	380	454	454	325	339	358	186	263	227	26	104	105	80	57	132	6	99
250	318	178	287	458	420	420	503	503	365	381	403	219	289	254	26	88	87	80	67	142	6	110
280	356	200	299	450	465	465	560	560	410	427	452	230	319	284	36	100		100	72	153	8	120
315	400	224	361	563	511	511	620	620	456	486	508	242	349	317	36	111		100	84	166	8	132
355	448	251	405	620	570	570	688	688	515	538	565	271	387	360	36	100	97	100	97	180	8	146
400	503	282	455	694	633	633	765	765	578	605	639	286	488	404	36	110	107	100	112	195	12	161
450	565	316	510	770	703	703	850	850	648	678	716	337	538	454	36	100	102	115	122	212	12	178
500	634	355	572	858	780	780	950	950	725	761	803	342	600	504	46	172		207		233	12	198
560	711	402	641	950	870	870	1055	1055	815	853	895	407	670	565	46	193		154	153	256	12	221
630	798	446	720	1063	968	968	1177	1177	913	957	1008	423	750	635	46	172		170		278	12	243

## F40 D05 / D04 Dimensions

### F40 D04 Base plate dimensions

D04 Fan type	Motor		Base plate size				
	kW	RPM	Pos 0	Pos 45	Pos 90	Pos 270	Pos 315
F40-224	7.5	2900	1	1	1	1	1
F40-224	11	2900	1	1	1	1	1
F40-250	11	2900	1	1	1	1	1
F40-250	15	2900	1	1	1	1	1
F40-280	18.5	2900	1	1	1	1	1
F40-280	22.0	2900	2	2	2	2	2
F40-280	30.0	2900	2	2	2	2	2
F40-315	30.0	2900	2	2	2	3	2
F40-315	37.0	2900	2	2	2	3	2
F40-315	45.0	2900	2	2	2	2	2
F40-355	7.5	1450	3	3	3	3	3
F40-355	11.0	1450	3	3	3	3	3
F40-355	15.0	1450	3	3	3	3	3
F40-400	11.0	1450	3	3	3	4	4
F40-400	15.0	1450	3	3	3	4	4
F40-400	18.5	1450	3	3	3	4	3
F40-400	22.0	1450	3	3	3	4	3
F40-450	18.5	1450	4	3	3	4	4
F40-450	22.0	1450	4	3	3	4	4
F40-450	30.0	1450	4	3	3	4	4
F40-450	37.0	1450	3	3	3	4	4
F40-500	37.0	1450	4	4	3	5	4
F40-500	45.0	1450	4	4	3	5	4
F40-500	55.0	1450	4	4	3	5	4
F40-500	37.0	1000	4	4	3	5	4
F40-560	45.0	1450	5	4	4	5	5
F40-560	45.0	1000	4	4	4	5	5
F40-630	55.0	1000	5	5	4	5	5



Dimensions of base plate D04 + D05			
Base plate size	R	W	L
0 (D05)	155		
1 (132 – 160*)	234	385	485
2 (180 – 225*)	272	385	485
3	324	550	650
4	359	610	710
5	427	740	840

T and V - see table on previous page.

L - see diagram on previous page.

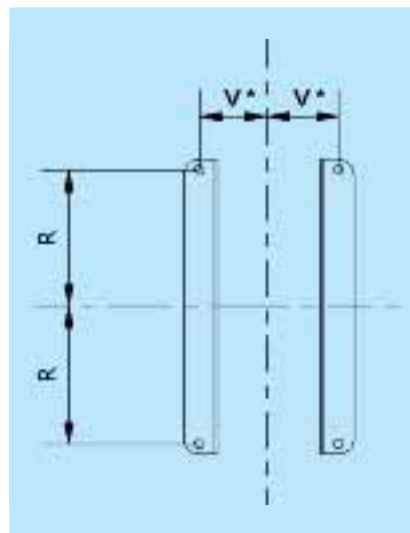
\* indicates size of motor.

### F40 D05 Base plate dimensions

D05 foot plate combinations						
Fan type	V*	Pos 0	Pos 45	Pos 90	Pos 270	Pos 315
F40-160	76	0	0	0	0	0
F40-180	83	0	0	0	0	0
F40-200	91	0	0	0	0	0
F40-224	99	1	1	1	1	1
F40-315	132	2	2	2	2	2

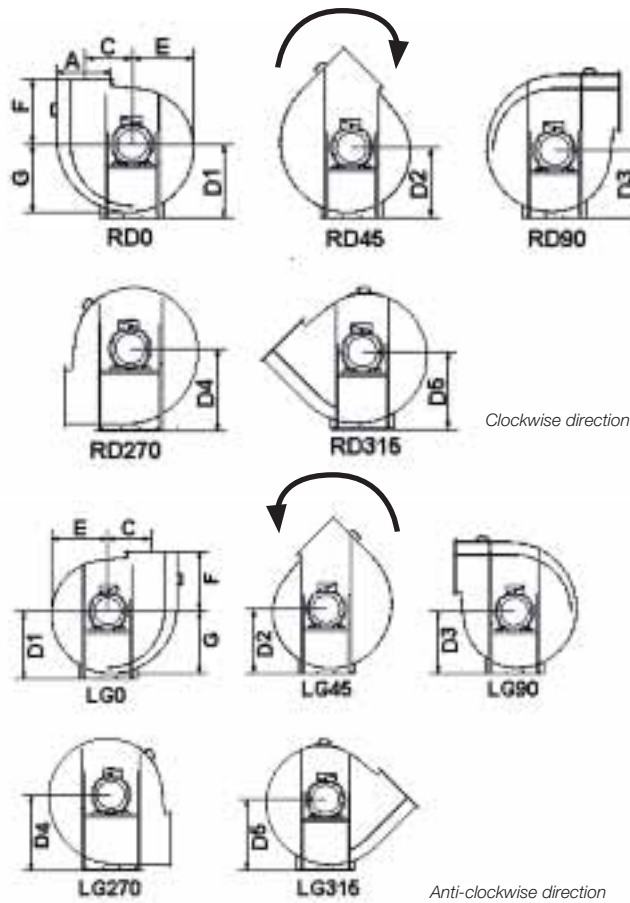
R - see value from table above, base plate dimensions D04 + D05.

All dimensions in mm.

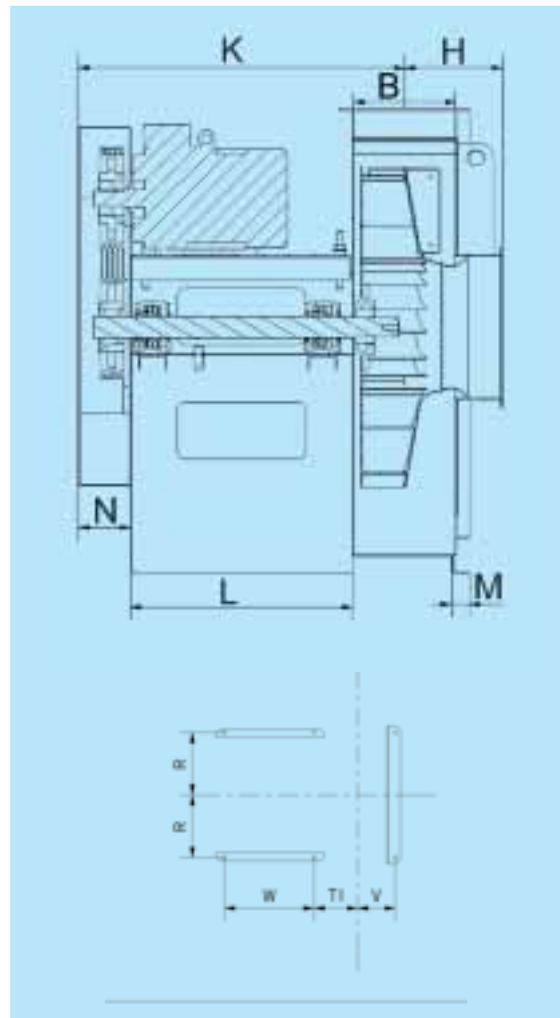


## F56 BV14 Dimensions

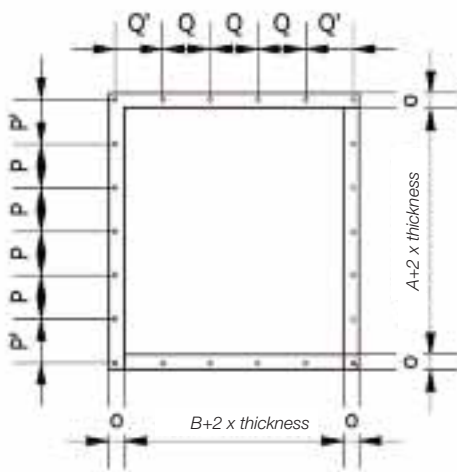
Positions



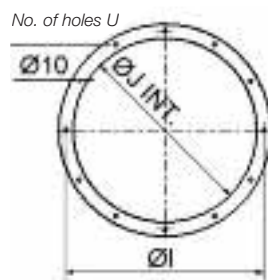
BV14



Outlet



Inlet

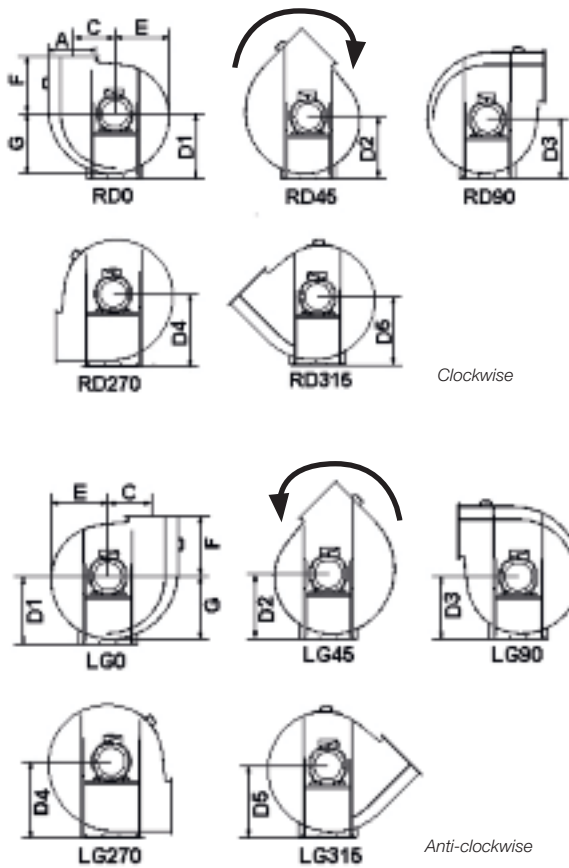


Size	A	B	C	D1	D2	D3	D4	D5	E	F	G	H	I	J	K	L	M	N	O	P	P'	Q	Q'	R	T	U	V	W	Y
500	500	444	473	676	585	585	782	782	530	530	621	352	538	504	1187	781	60	180	36	109		100	97	325	346	12	242	528	60
560	560	498	530	755	645	645	870	870	590	595	700	392	600	565	1214	781	60	180	36	101	102	110	109	325	373	12	269	528	80
630	628	558	595	840	717	717	968	968	662	667	785	409	670	635	1343	880	60	180	36	113		101	102	325	403	12	299	528	80

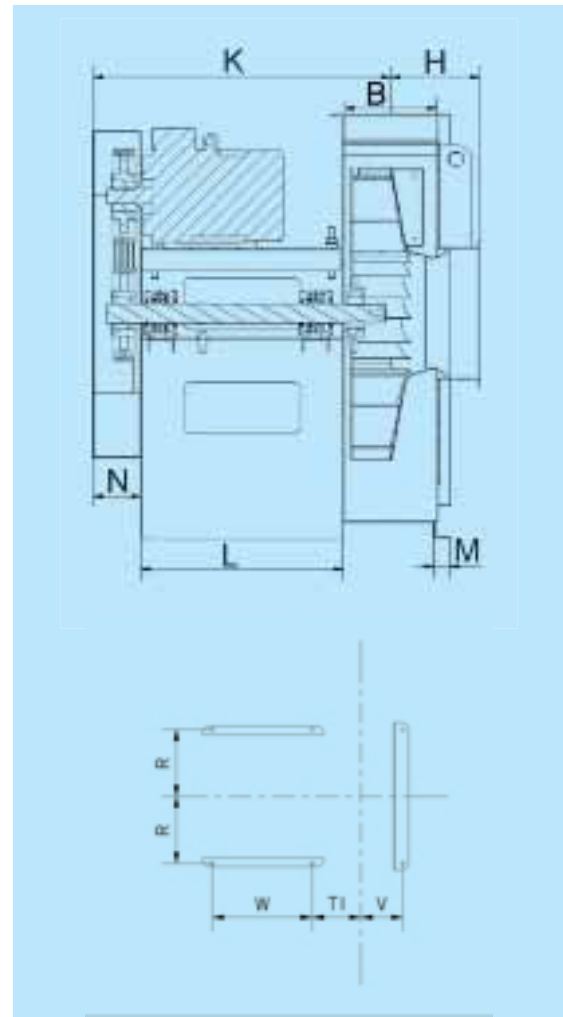
All dimensions in mm.



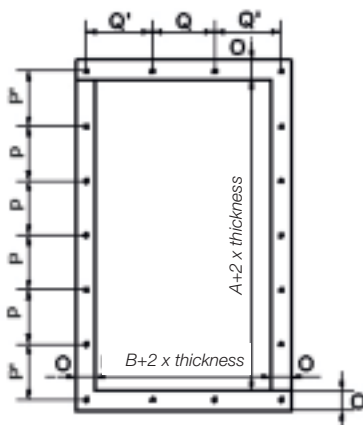
## Positions



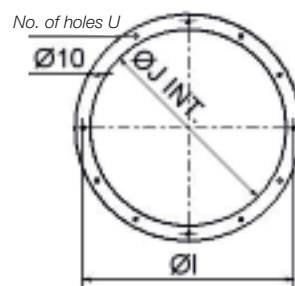
BV14



## Outlet



Inlet

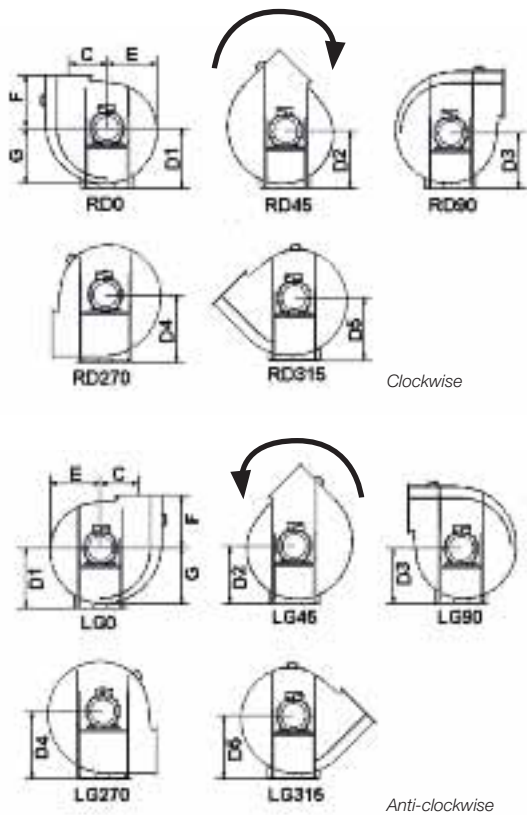


Size	A	B	C	D1	D2	D3	D4	D5	E	F	G	H	I	J	K	L	M	N	O	P	P'	Q	Q'	R	T	U	V	W	Y
250	318	178	287	458	420	420	503	503	365	381	403	219	289	254	1054	781	60	180	26	88	87	80	67	325	202	6	110	528	50
280	356	200	299	450	465	465	560	560	410	427	452	230	319	284	1064	781	60	180	36	100		100	72	325	223	8	120	528	50
315	400	224	361	563	511	511	620	620	456	486	508	242	349	317	1077	781	60	180	36	111		100	84	325	236	8	132	528	50
355	448	251	405	620	570	570	688	688	515	538	565	271	387	360	1091	781	60	180	36	100	97	100	97	325	250	8	146	528	50
400	503	282	455	694	633	633	765	765	578	605	639	286	438	404	1106	781	60	180	36	110	107	100	112	325	265	12	161	528	50
450	565	316	510	770	703	703	850	850	648	678	716	337	588	454	1123	781	60	180	36	100	102	115	122	325	282	12	178	528	50

All dimensions in mm.

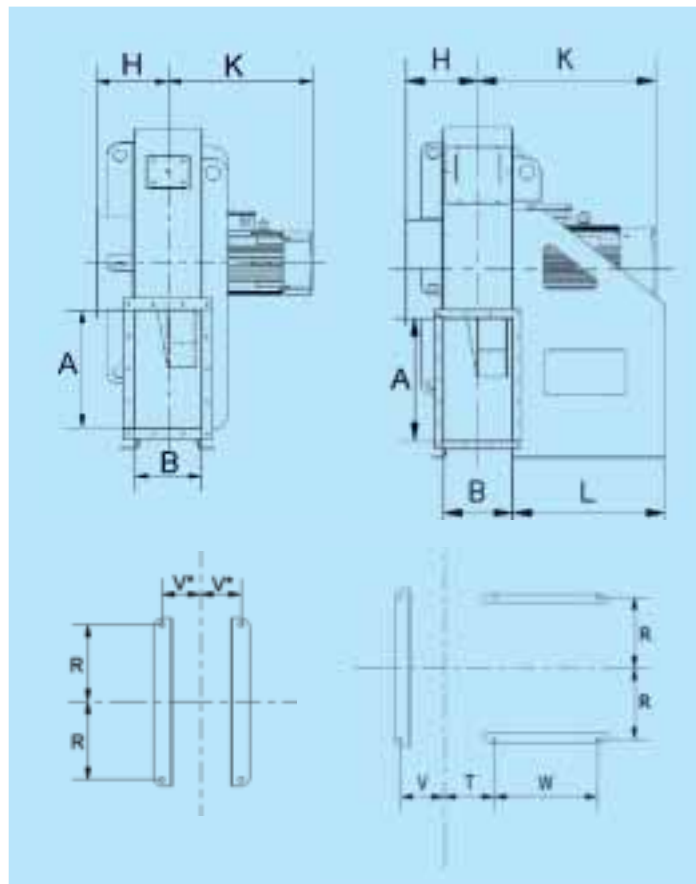
# F56 D05 / D04 Dimensions

Positions

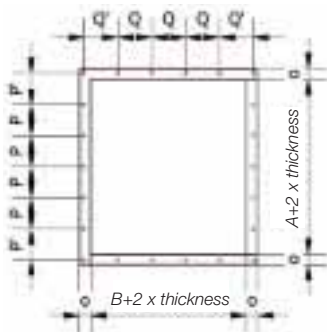


D05

D04



Outlet



Inlet

No. of holes U



K - depending on motor supplier. See motor catalogue.

L, W and R - see table on next page.

V\* - see next page.

Size	A	B	C	D1	D2	D3	D4	D5	E	F	G	H	I	J	O	P	P'	Q	Q'	T	U	V
224	222	197	211	334	292	292	380	380	237	236	279	207	263	227	26	86	85	80	77		6	
250	250	222	237	369	317	317	420	420	262	266	314	219	289	254	26	94		100	79		6	
280	280	249	266	407	354	354	464	464	299	298	352	232	319	284	36	108		100	97	178	8	145
315	315	280	299	450	390	390	514	514	335	335	395	248	349	317	36	119	120	80	82	193	8	160
355	352	314	335	497	430	430	569	569	375	375	442	281	387	360	36	100		100	80	211	8	177
450	445	395	421	612	528	528	703	703	473	472	557	328	488	454	36	124		80	102	252	12	218
500	500	444	473	676	585	585	782	782	530	530	621	352	538	504	36	109		100	97	276	12	242
560	560	498	530	755	645	645	870	870	590	595	700	392	600	565	36	101	102	110	109	303	12	269
630	628	558	595	840	717	717	968	968	662	667	785	409	670	635	36	113		101	102	333	12	299
710	705	627	668	931	802	802	1080	1080	747	749	876	519	750	715	46	193		173		369	12	334
800	791	703	750	1042	889	889	1204	1204	834	840	987	545	848	804	46	172		193		407	12	372
900	887	788	840	1162	995	995	1344	1344	940	942	1107	587	948	904	46	192		172		449	12	414

# F56 D05 / D04 Dimensions

## F56 D04 Base plate dimensions

D04	Motor		Base plate size				
			Pos 0	Pos 45	Pos 90	Pos 270	Pos 315
F56-280	7.5	2900	1	1	1	1	1
F56-315	7.5	2900	1	1	1	1	1
F56-315	11.0	2900	1	1	1	1	1
F56-315	15.0	2900	1	1	1	1	1
F56-355	15.0	2900	1	1	1	1	1
F56-355	18.5	2900	1	1	1	1	1
F56-355	22.0	2900	2	2	2	2	2
F56-355	30.0	2900	2	2	2	2	2
F56-355	37.0	2900	2	2	2	2	2
F56-450	11.0	1450	3	1	1	3	3
F56-500	11.0	1450	3	3	1	4	4
F56-500	15.0	1450	3	3	1	4	4
F56-500	18.5	1450	3	3	2	4	3
F56-560	30.0	1450	3	3	3	4	4
F56-560	37.0	1450	3	3	3	4	4
F56-630	30.0	1450	4	4	3	5	5
F56-630	37.0	1450	4	3	3	5	4
F56-630	45.0	1450	4	3	3	5	4
F56-710	55.0	1450	4	4	3	5	5
F56-710	75.0	1450	4	4	3	5	5
F56-710	55.0	1000	4	4	3	5	5
F56-800	75.0	1000	5	4	4	5	5
F56-800	90.0	1000	5	4	4	5	5
F56-900	75.0	1000	5	5	4	6	6
F56-900	90.0	1000	5	5	4	6	6

Dimensions of base plate D04 + D05			
Base plate size	R	W	L
0 (D05)	155		
1 (132 – 160*)	234	385	485
2 (180 – 225*)	272	385	485
3	324	550	650
4	359	610	710
5 + 6	427	740	840



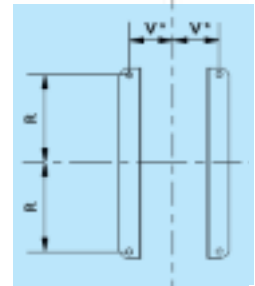
T and V - see table on previous page.

L - see diagram on previous page.

\* indicates size of motor.

## F56 D05 Base plate dimensions

D05 foot plate combinations						
Fan type	V*	Pos 0	Pos 45	Pos 90	Pos 270	Pos 315
F56-224	119	0	0	0	0	0
F56-250	131	0	0	0	0	0
F56-280	145	1	1	1	1	1
F56-450	160	3	2	2	3	3



R - see value from table above, base plate dimensions D04 + D05.  
All dimensions in mm.

## Combifab-F weight without motor

D04	
Size	Kg R - S - T
F40 - 224	75 - 74 - 74
F40 - 250	89 - 91 - 88
F40 - 280	116 - 119 - 111
F40 - 315	155 - 159 - 155
F40 - 355	180 - 191 - 181
F40 - 400	241 - 250 - 242
F40 - 450	304 - 310 - 300
F40 - 500	430 - 435 - 422
F40 - 560	469 - 504 - 491
F40 - 630	587 - 632 - 617
F56 - 280	94 - 92 - 94
F56 - 315	95 - 92 - 97
F56 - 355	127 - 118 - 126
F56 - 450	190 - 191 - 205
F56 - 500	250 - 254 - 265
F56 - 560	334 - 316 - 333
F56 - 630	420 - 407 - 447
F56 - 710	503 - 486 - 538
F56 - 800	641 - 623 - 684
F56 - 900	911 - 889 - 920

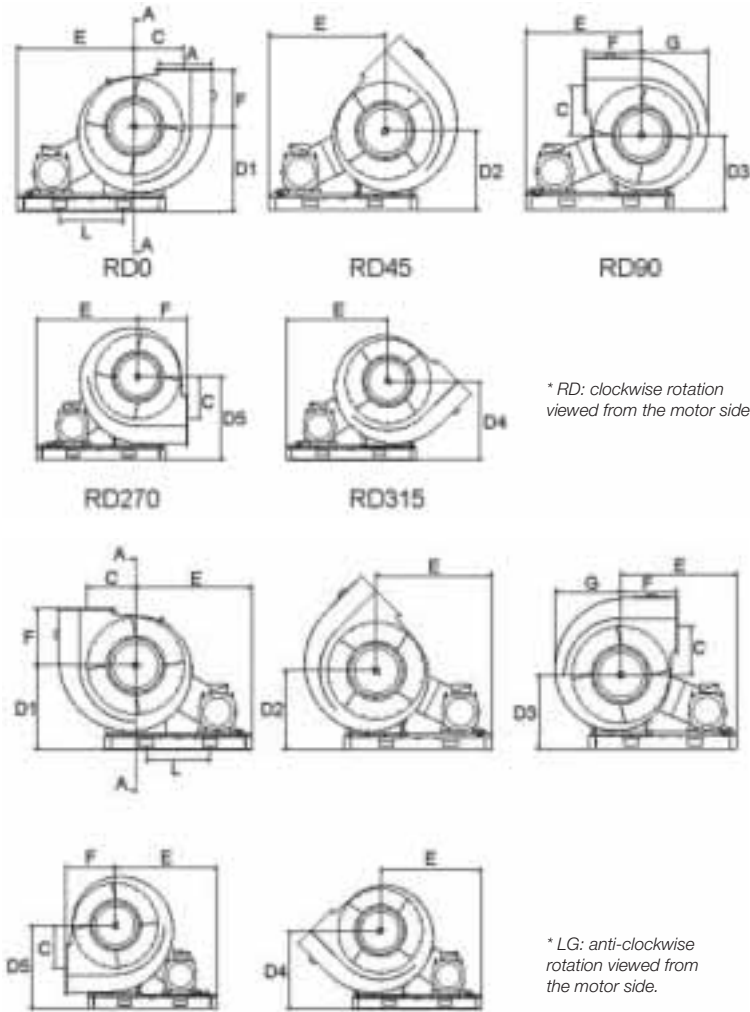
D05	
Size	Kg R - S - T
F40 - 160	27 - 27
F40 - 180	31 - 31
F40 - 200	38 - 38 - 37
F40 - 224	75 - 74 - 74
F40 - 315	155 - 159 - 155
F56 - 224	32 - 31 - 31
F56 - 250	41 - 40 - 40
F56 - 280	94 - 92 - 94
F56 - 450	190 - 191 - 205

BW09	
Size	Kg R - S - T
F40 - 500	945 - 951 - 938
F40 - 560	1026 - 1062 - 1048
F40 - 630	1032 - 1277 - 1262
F56 - 630	977 - 963 - 1004
F56 - 710	1122 - 1105 - 1157
F56 - 800	1343 - 1326 - 1387
F56 - 900	1829 - 1807 - 1838

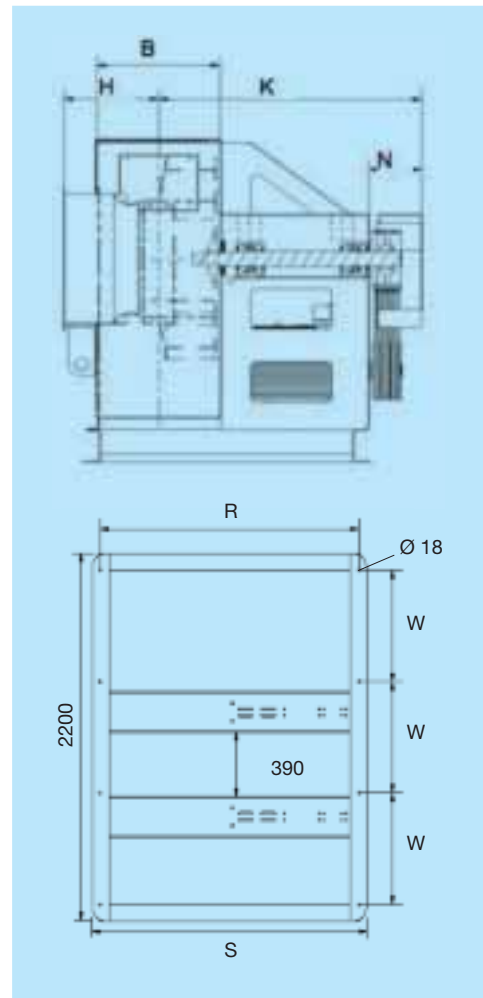
Size of motor Ø	Fan - R (kg)				Fan - S (kg)				Fan - T (kg)			
	Ø 50	Ø 60	Ø 80	Ø 90	Ø 50	Ø 60	Ø 80	Ø 90	Ø 50	Ø 60	Ø 80	Ø 90
0.40-250	220	232			222	234			219	231		
0.40-280	247	259			250	262			242	254		
0.40-315	288	300			292	304			288	301		
0.40-355	313		366		324		377		315		367	
0.40-400	353		406		362		415		355		407	
0.40-450	440		493		446		499		436		489	
0.56-500		399	439			403	443			413	454	
0.56-560			523	554			504	535			523	553
0.56-630			579				566				606	

# F40 and F56 BW09 Dimensions

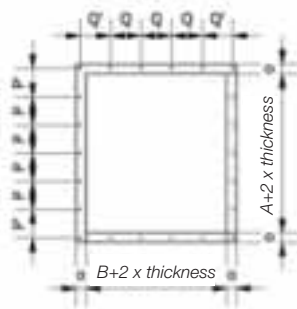
## Positions



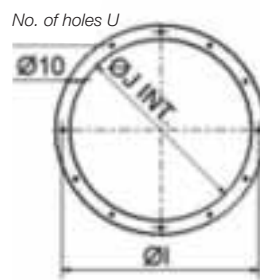
## BW09



## Outlet



## Inlet



Size	A	B	C	D1	D2	D3	D4	D5	E	F	G	H	I	J	K	L	N	O	P	P'	Q	Q'	R	S	U	W	Y
F40-500	634	355	572	1058	980	980	1150	1150	1730	761	803	342	538	504	1212	950	200	46	172	207	1198	1288	12	667	60	60	
F40-560	711	402	641	1150	1070	1070	1255	1255	1730	853	895	407	600	565	1245	950	200	46	193	154	153	1241	1331	12	667		
F40-630	798	446	720	1263	1168	1168	1377	1377	1730	957	1008	423	670	635	1267	950	200	46	172	170	1289	1379	12	667	80		
F56-630	628	558	595	1040	917	917	1168	1168	1730	667	785	409	670	635	1323	950	200	36	113	101	1401	1491	12	667	80		
F56-710	705	627	668	1131	1002	1002	1280	1280	1730	749	876	519	750	715	1358	950	200	46	193	173	1470	1560	12	667	80		
F56-800	791	703	750	1242	1089	1089	1404	1404	1730	840	987	545	848	804	1396	950	200	46	172	192	1546	1636	12	667	80		
F56-900	887	788	840	1362	1195	1195	1544	1544	1730	942	1107	587	948	904	1439	950	200	46	192	172	1633	1723	12	667	90		

All dimensions in mm.

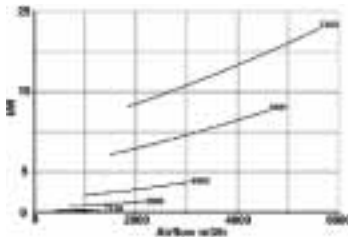
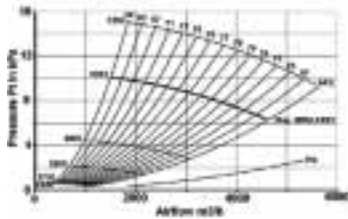




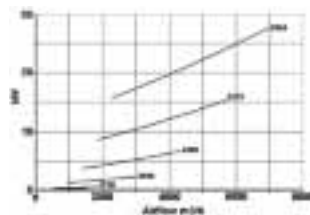
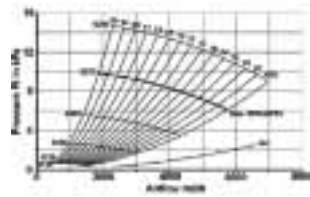
# COMBIFAB-F Fan curves

## F40-R160-R630

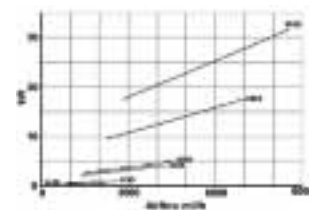
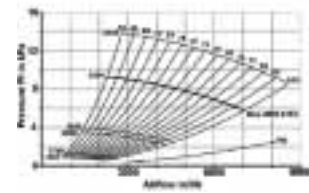
F40-R160



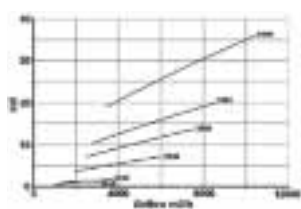
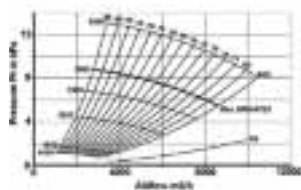
F40-R180



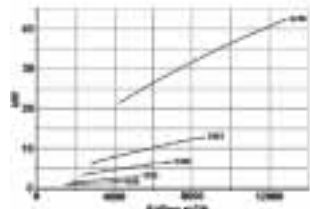
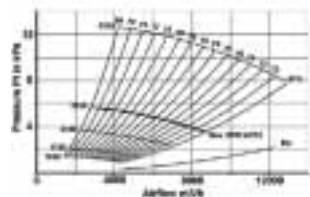
F40-R200



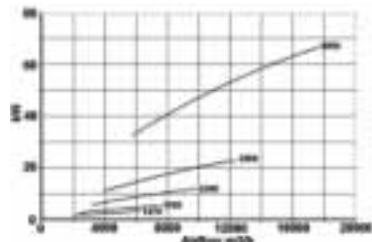
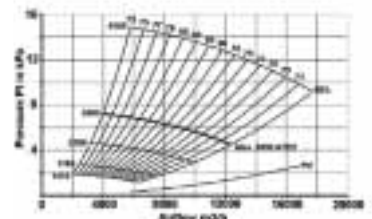
F40-R224



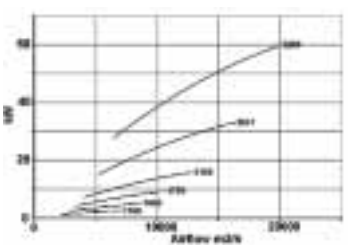
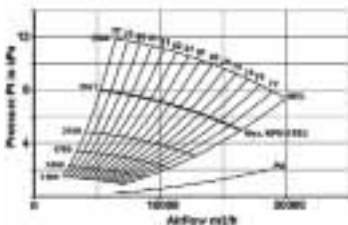
F40-R250



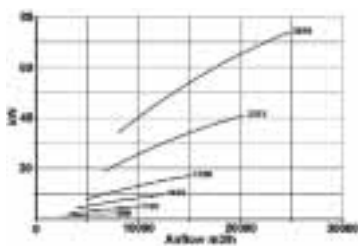
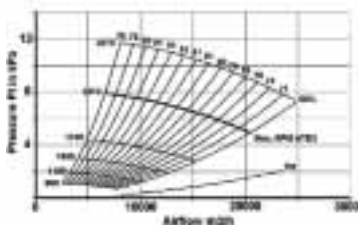
F40-R280



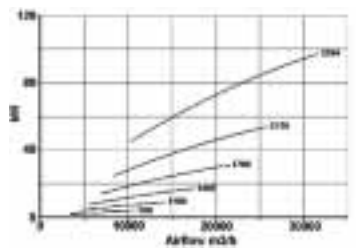
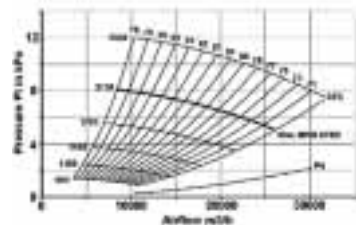
F40-R315



F40-R355

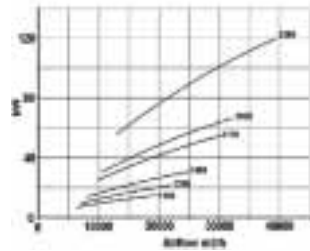
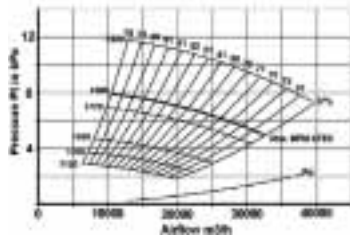


F40-R400

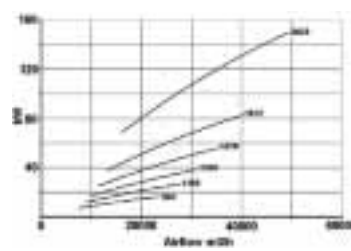
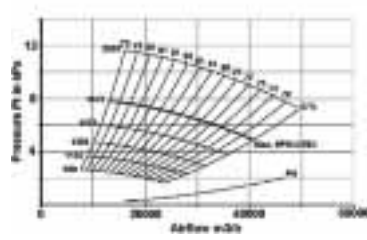


# COMBIFAB-F Fan curves

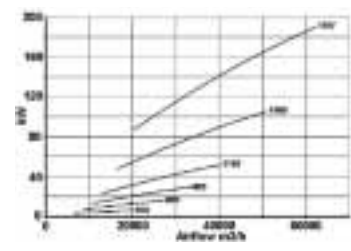
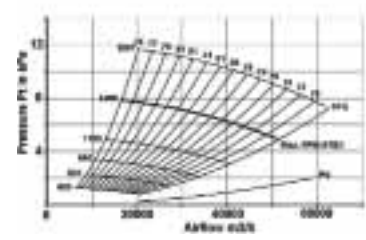
F40-R450



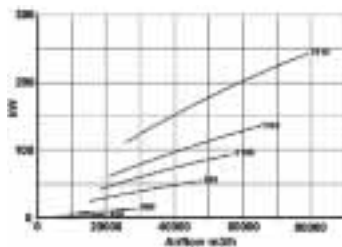
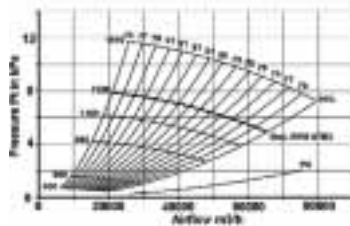
F40-R500



F40-R560

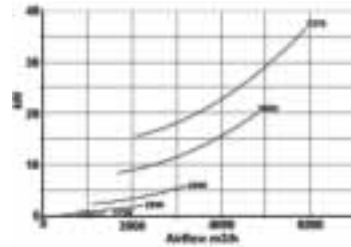
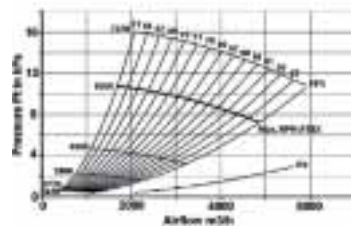


F40-R630

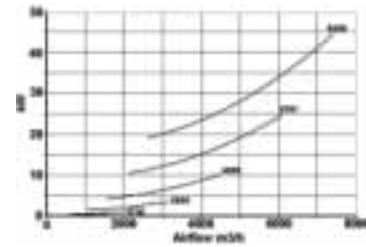
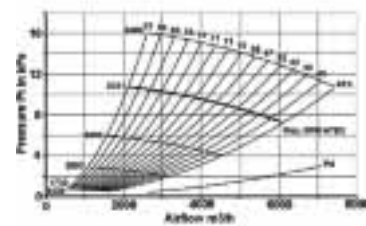


**F40-S160-S630**

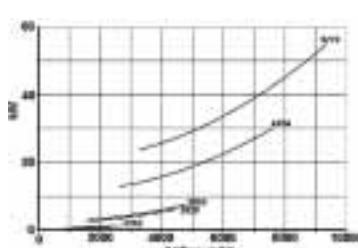
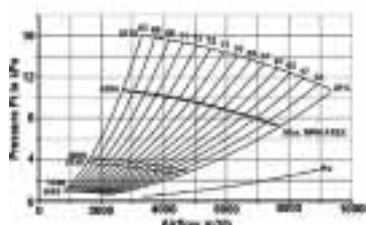
F40-S160



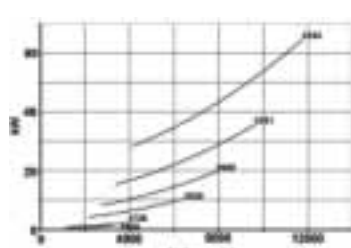
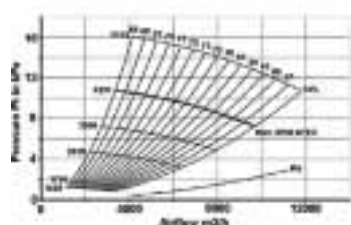
F40-S180



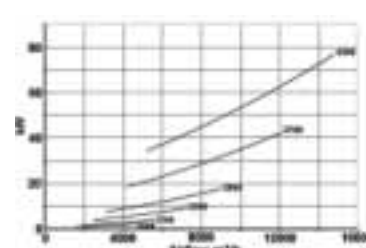
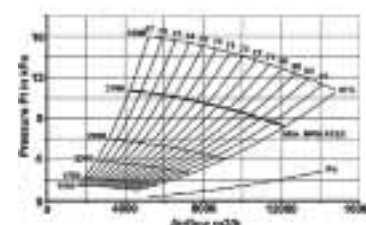
F40-S200



F40-S224



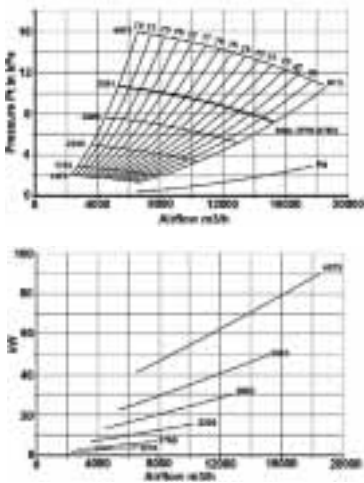
F40-S250



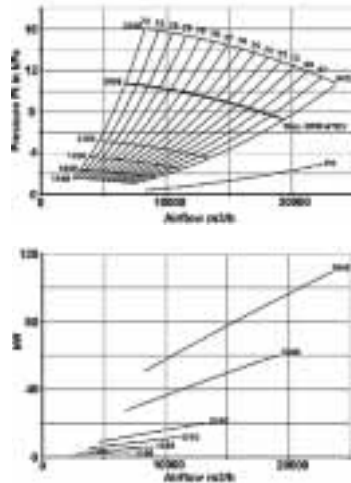


# COMBIFAB-F Fan curves

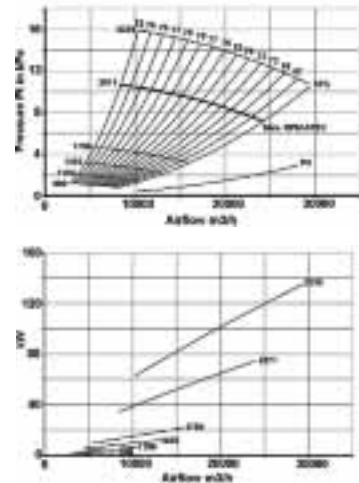
F40-S280



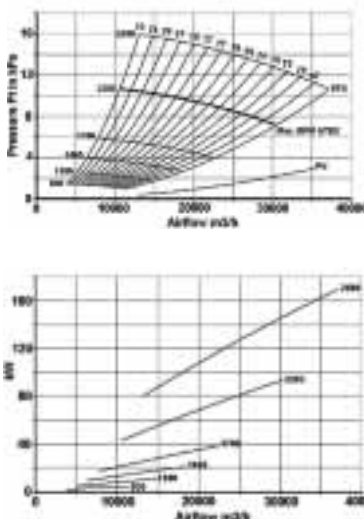
F40-S315



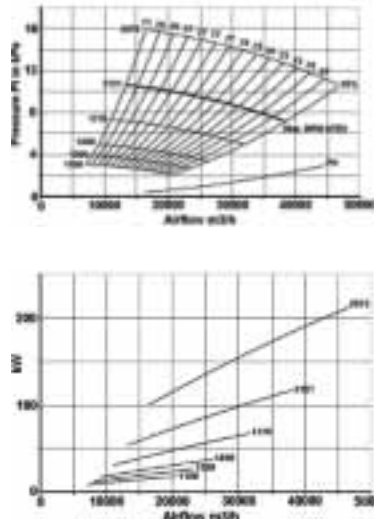
F40-S355



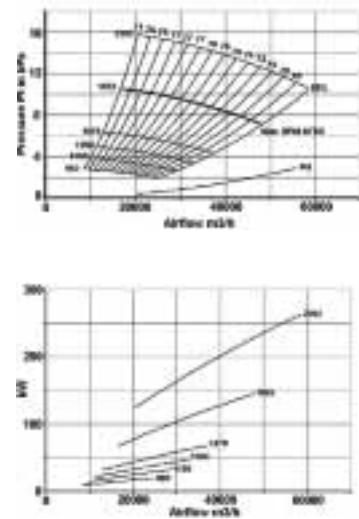
F40-S400



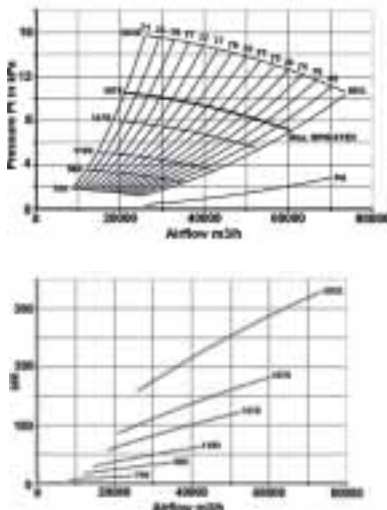
F40-S450



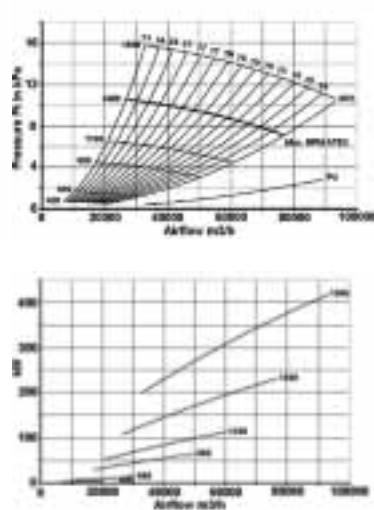
F40-S500



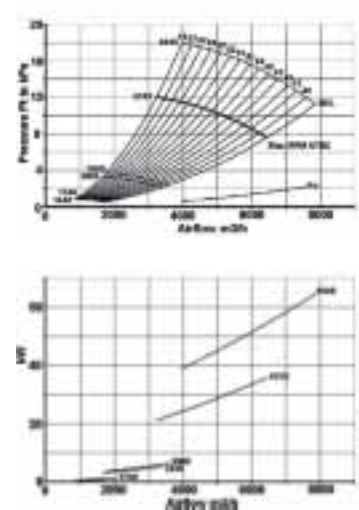
F40-S560



F40-S630



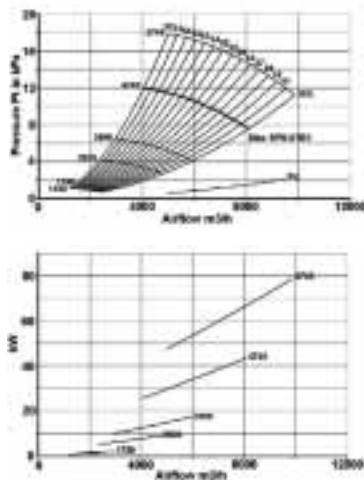
F40 T200-T630  
F40-T200



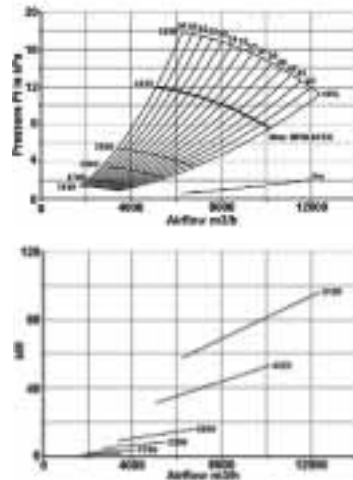


# COMBIFAB-F Fan curves

F40-T224

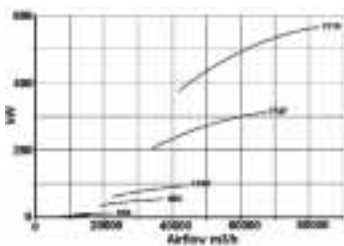
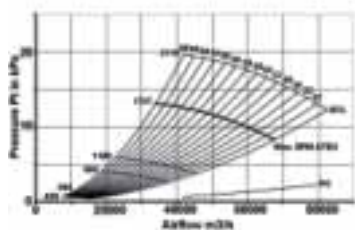


F40-T250

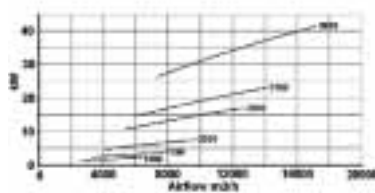
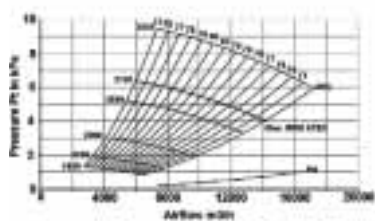


# COMBIFAB-F Fan curves

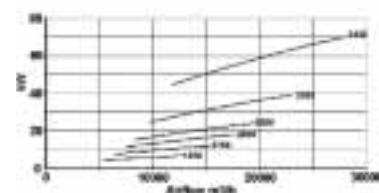
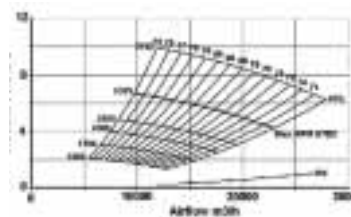
F40-T630



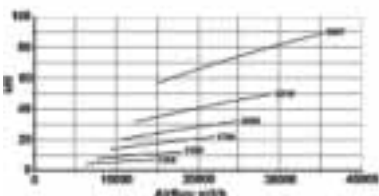
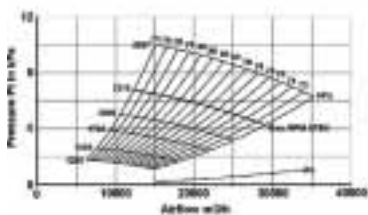
**F56 R355 - R900**  
F56-R355



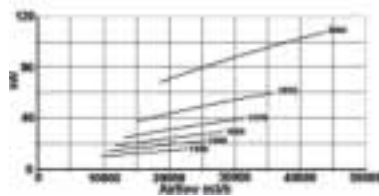
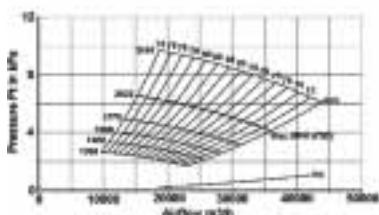
F56-R450



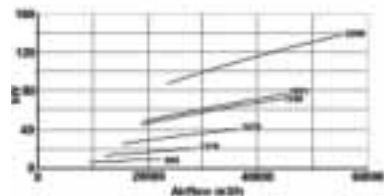
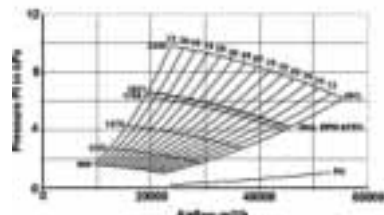
F56-R500



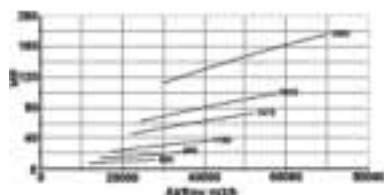
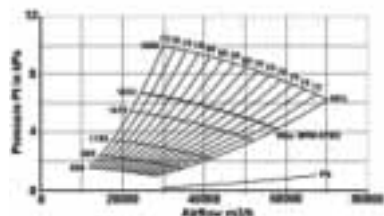
F56-R560



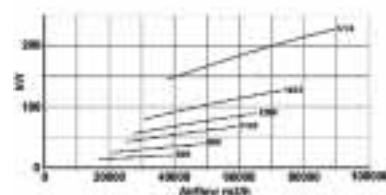
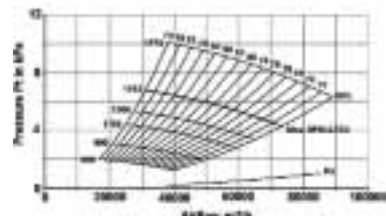
F56-R630



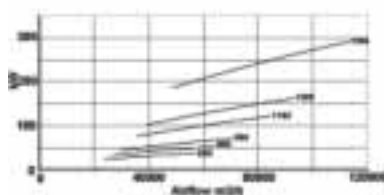
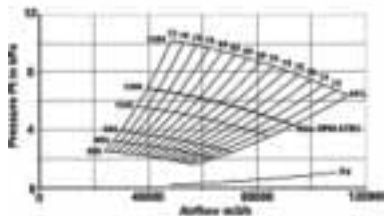
F56-R710



F56-R800



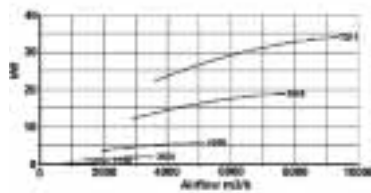
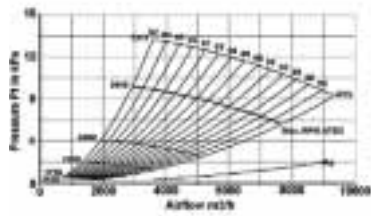
F56-R900



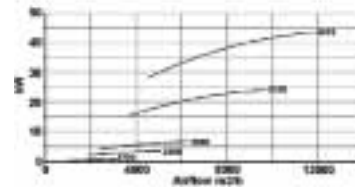
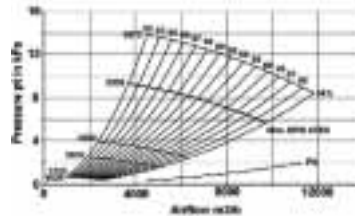
# COMBIFAB-F Fan curves

## F56-S224 - S900

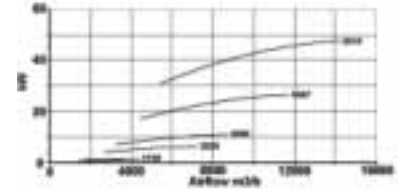
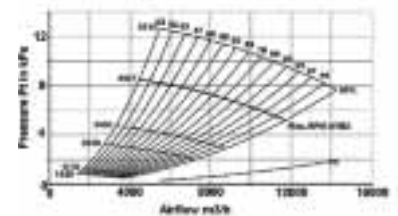
### F56-S224



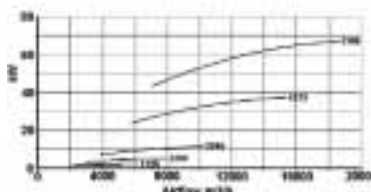
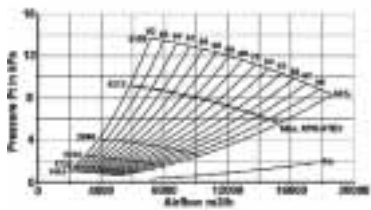
### F56-S250



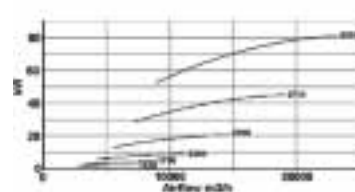
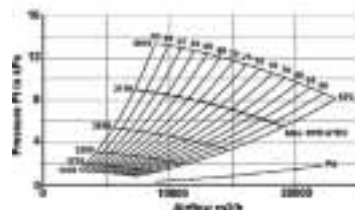
### F56-S280



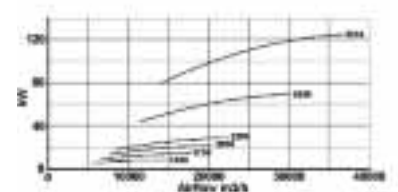
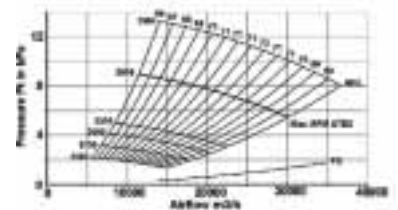
### F56-S315



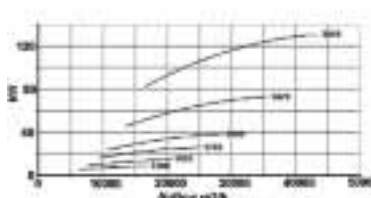
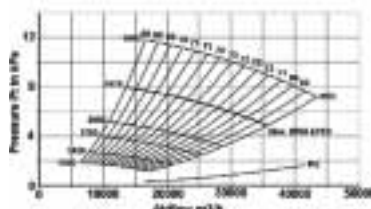
### F56-S355



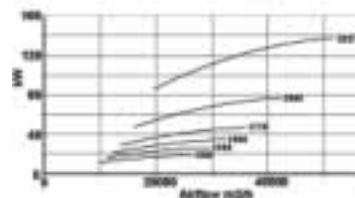
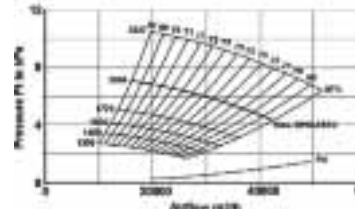
### F56-S450



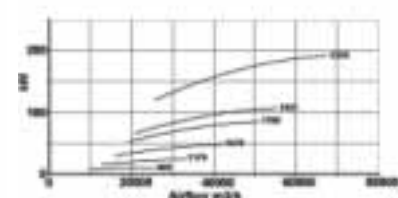
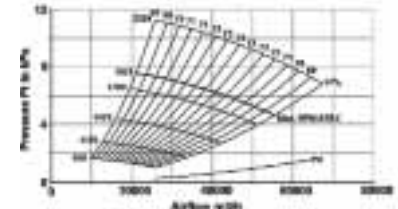
### F56-S500



### F56-S560



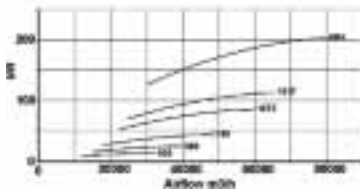
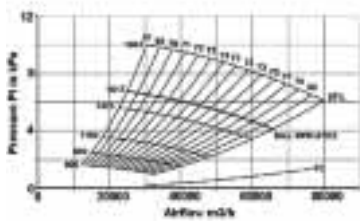
### F56-S630



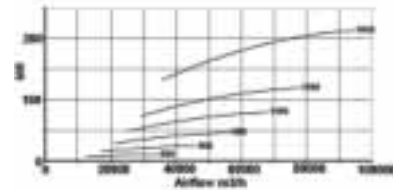
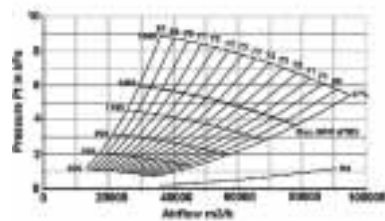


# COMBIFAB-F Fan curves

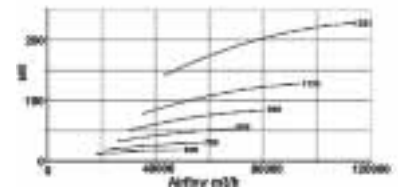
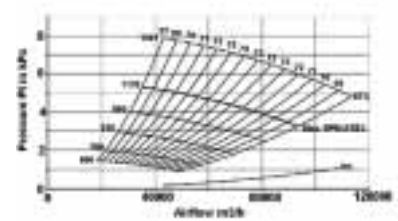
F56-S710



F56-S800

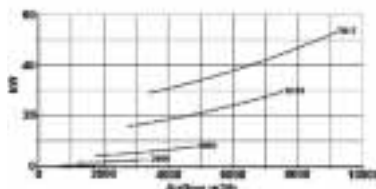
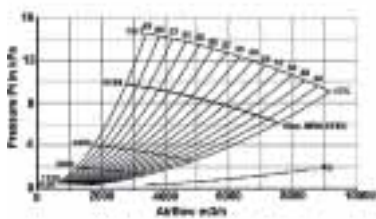


F56-S900

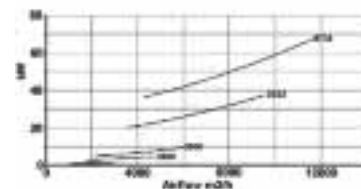
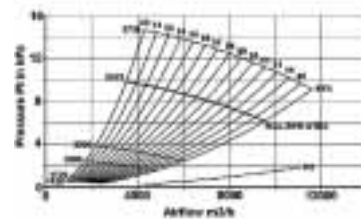


**F56-T224 - T900**

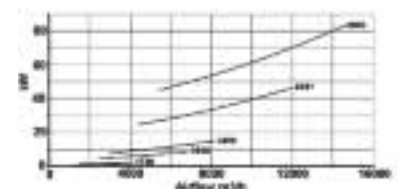
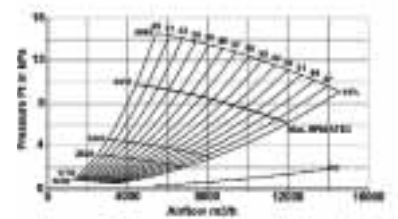
F56-T224



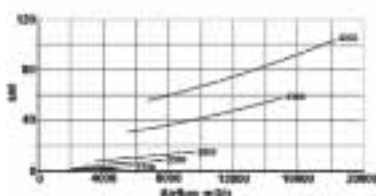
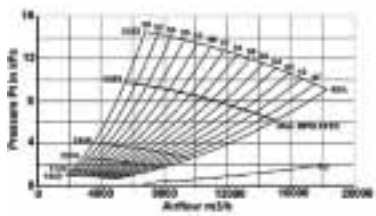
F56-T250



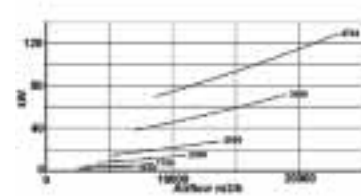
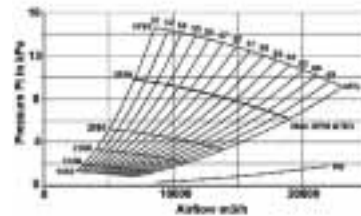
F56-T280



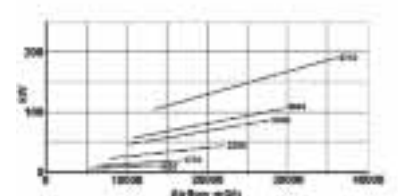
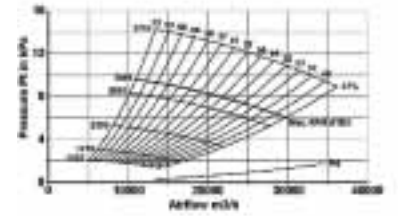
F56-T315



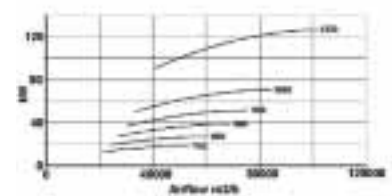
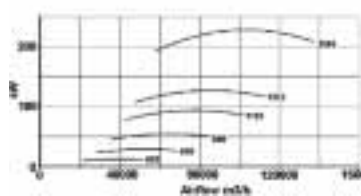
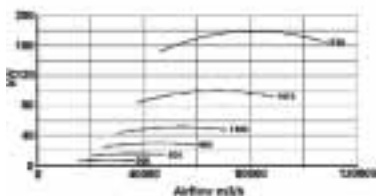
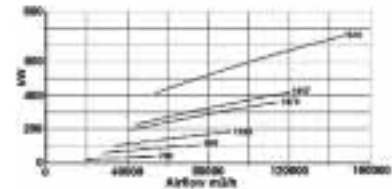
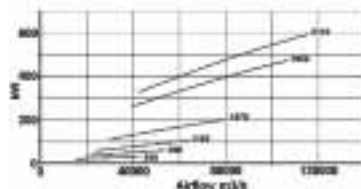
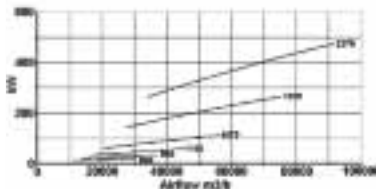
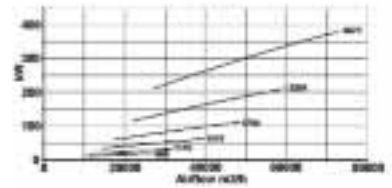
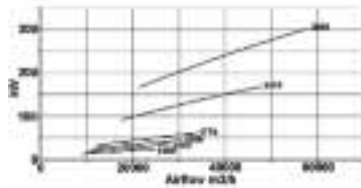
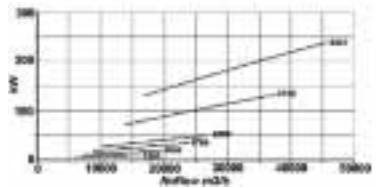
F56-T355



F56-T450

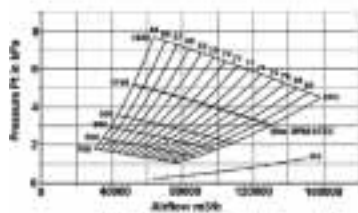




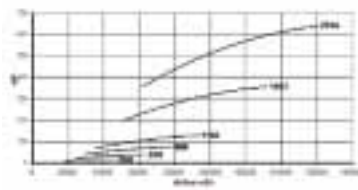
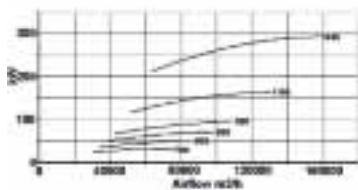
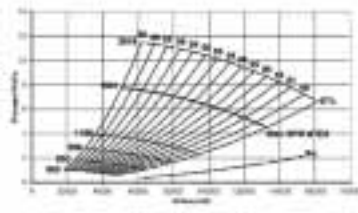


# COMBIFAB-F Fan curves

F63-S1000

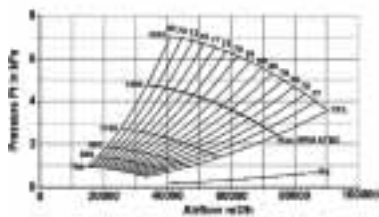


F63-T900

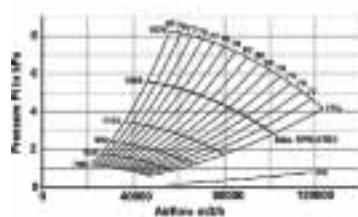


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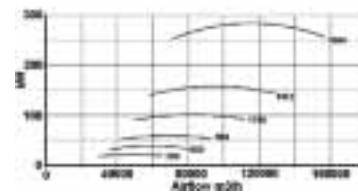
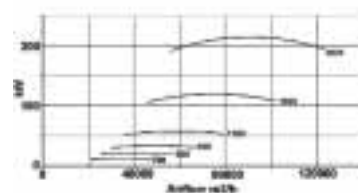
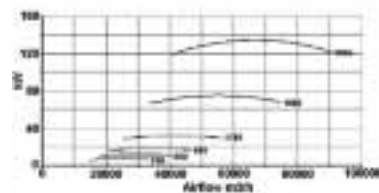
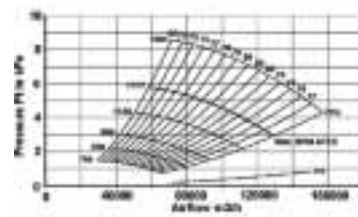
F71-R900



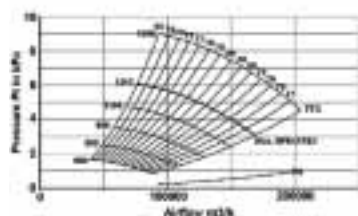
F71-R1000



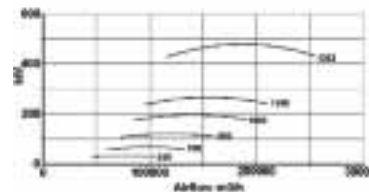
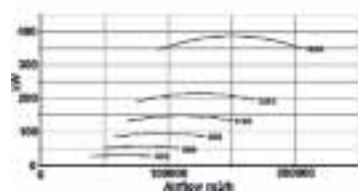
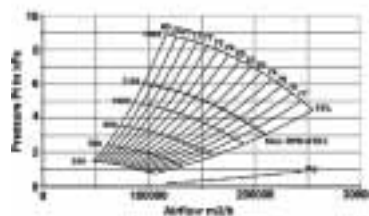
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F71-R1250

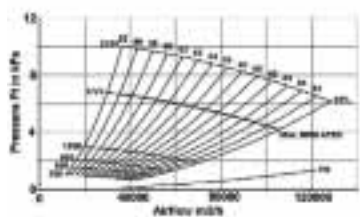


F71-R1400

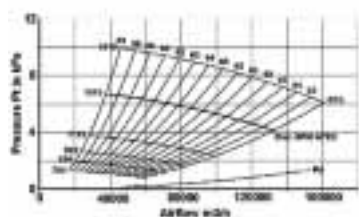


# COMBIFAB-F Fan curves

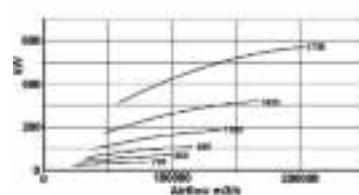
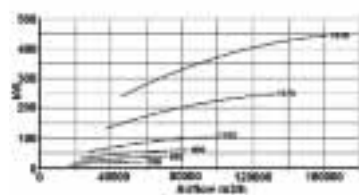
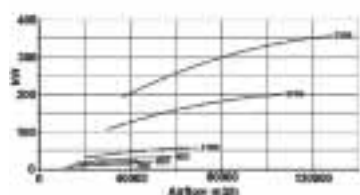
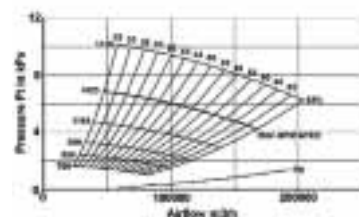
F71-S900



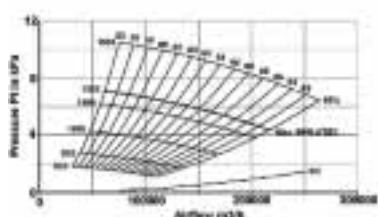
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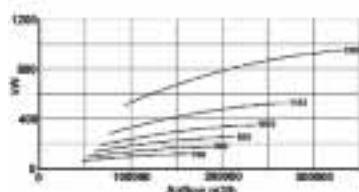
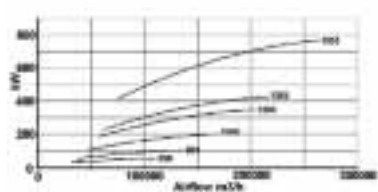
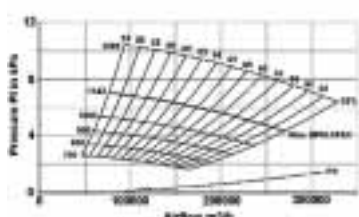
F71-S1120



F71-S1250



F71-S1400



# RFA Strip fans

The RFA strip fan is a special fan for combined tearing and transport of strips formed from cutting the edges of paper, laminated paper, card, corrugated cardboard and similar materials. Shredding the edge strips enables them to be carried in pneumatic transport systems over considerable distances. Shredding them facilitates final processing, whether the strips are discarded as waste, returned to the process or handled in some other way.

The RFA strip fan has the capacity to transport shredded strips over shorter distances to some form of separator. Over longer distances or with a separator with a large pressure drop, the strip fan can be combined with another transport fan. It is normal for a number of strip fans to be placed alongside different cutting machines and connected to a pneumatic transport system.

Shred and transport strips from paper machines.  
The fan has blades with special steel edges.

## Design

- The fan is made of welded steel sheet and consists of a cap, rotor and motor block.
- The cap is rotatable and fitted with an eccentric inlet.
- The rotor is of the transport type, all-welded and with blades fitted with special steel edges. It is dynamically balanced for vibration-free running.

## Design

- Strip fans are produced in three sizes: RFA-013, RFA-015 and RFA-020 direct-driven versions and RFA-020 belt-driven; H2 exhaust direction is standard.

## Finish

- Colour RAL 9001.

## Accessories

- Silencer box.



N.B. When the strip fan is set up, it should always be placed as close as possible to the cutting point.

This is in order to use the shortest possible inlet duct, which gives the best operating results.

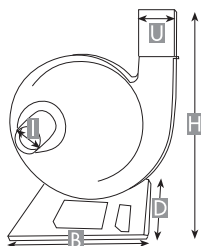


# RFA Strip fans

## RFA-013 | Medium-pressure | Strip fan

Motor power, kW:	2,2
Weight with motor, kg:	78
Noise level, dB(A) *:	78 ± 3
Special design/replacement parts/ATEX compatible:	ask for a quotation

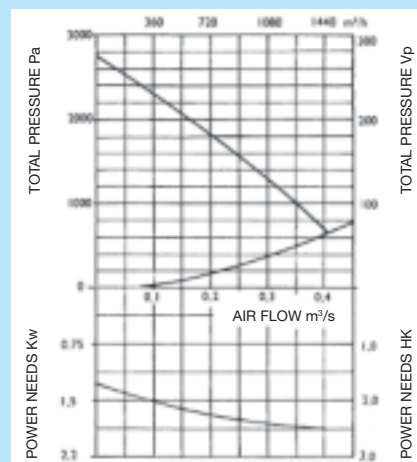
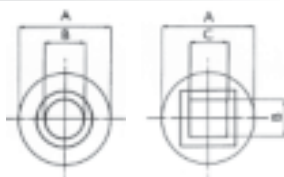
Accessories include silencer box.\* Noise level measured 1 m from the unit with ducts connected to inlet and outlet.



W x H x D = 590 x 700 x 900 mm.  
I = inlet 130 mm U = outlet 130 x 130 mm.

### Silencer for inlet and outlet

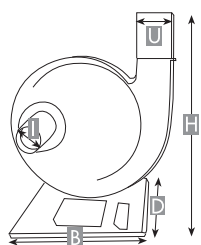
Size measured in mm	A	B	C
	300	130	125



## RFA-015 | Medium-pressure | Strip fan

Motor power, kW:	4,0
Weight with motor, kg:	105
Noise level, dB(A) *:	89 ± 3
Special design/replacement parts/ATEX compatible:	ask for a quotation

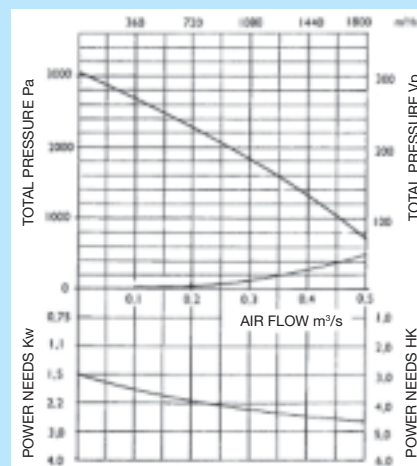
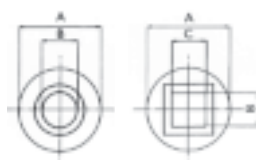
Accessories include silencer box.\* Noise level measured 1 m from the unit with ducts connected to inlet and outlet.



W x H x D = 662 x 791 x 900 mm.  
I = inlet 150 mm U = outlet 150 x 150 mm.

### Silencer for inlet and outlet

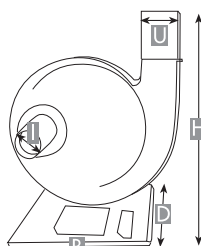
Size measured in mm	A	B	C
	300	150	135



## RFA-020 Medium-pressure strip fan

Motor power, kW:	11,0
Weight with motor, kg:	185
Noise level, dB(A) *:	90 ± 3
Special design/replacement parts/ATEX compatible:	ask for a quotation

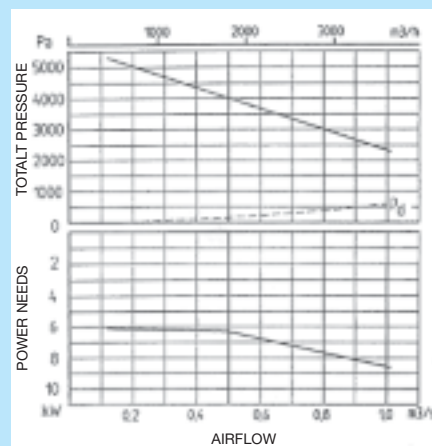
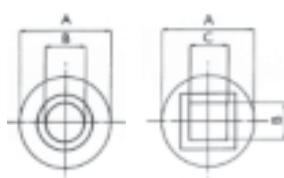
Accessories include silencer box.\* Noise level measured 1 m from the unit with ducts connected to inlet and outlet.



W x H x D = 786 x 940 x 1100 mm.  
I = inlet 200 mm U = outlet 200 x 200 mm.

### Silencer for inlet and outlet

Size measured in mm	A	B	C
	400	200	165



# Fans N-series



The N-series fans are an important component in Nederman's wide range of quality products for fume extraction and filtration, as well as for vehicle exhaust extraction. A range of fans is available from 0.55 kW to 2.2 kW, both single and three-phase.

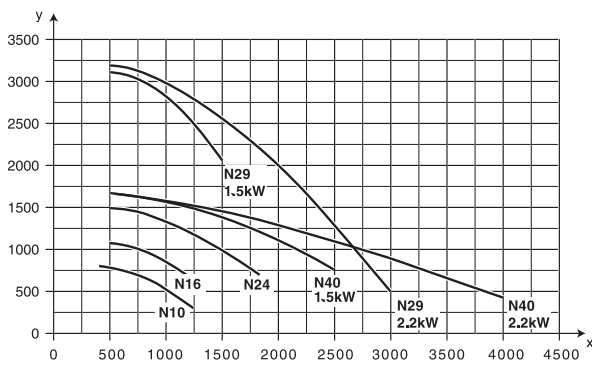
- Simple and powerful



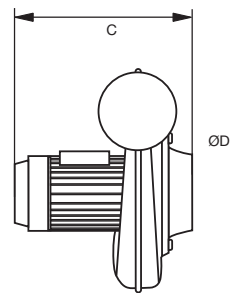
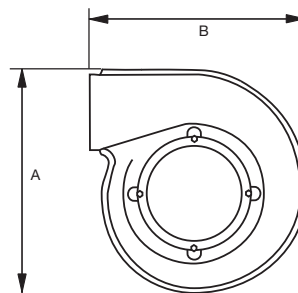
Dimensions, mm

Fan	A	B	C	D
N10/N16	478	457	321	160
N24	478	457	341	160
N40	493	582	482	250
N29	635	643	475	160

## Pressure drop



X: airflow, m³/h Y: static pressure Pa

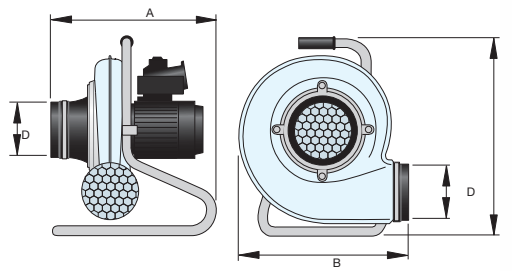


Model	Airflow, m³/h	Voltage, V	Frequency, Hz	No. of phases	Rated current, A	Power, kW	Connection Ø in / out, mm	Weight, kg	Part no.
N10*	400-1200	115/230	50	1	8,7/4,4	0,55	160/160	15	14521321
N10*	400-1250	230/400	50	3	2,4/1,4	0,55	160/160	13	14521621
N16*	400-1200	115/230	50	1	8,7/4,4	0,55	160/160	15	14510121
N16*	500-1250	230/400	50	3	2,4/1,4	0,55	160/160	13	14510521
N24*	400-1500	115/230	50	1	13,6/6,5	0,75	160/160	17	14510122
N24*	400-1750	230/400	50	3	3,7/2,2	0,9	160/160	17	14510422
N40*	500-4000	230/400	50	3	7,9/4,6	2,2	200/250	29	14510123
N40***	500-2500	230/400	50	3	5,7/3,3	1,5	200/250	25	14510623
N29**	500-3000	230/400	50	3	7,9/4,6	2,2	160/160	32	14510129
N29*	500-3000	230/400	50	3	7,9/4,6	2,2	160/160	32	14510829
N29**	500-1500	230/400	50	3	5,7/3,3	1,5	160/160	28	14520129

\*) Excl. fan bracket \*\*) With fan bracket \*\*\*) Excl. fan bracket, cannot be used without connections, max. airflow is 2500 m³/h.

## Portable fans

Nederman portable fans are simple and powerful ventilation units for service, repairs and other temporary work. Ideal as an extractor for welding fumes, steam, dust or for providing fresh air during work in confined and enclosed spaces. A compact and easy-to-use fan which, in combination with inlet and outlet connections, makes a flexible and versatile unit with a wide range of applications.



Dimensions, mm

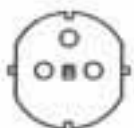
- Compact and easy to use
- Stand included, wheel set as accessory
- On/off switch and motor protector included

Fan	A	B	D	H
N16	430	484	Ø 160	550
N24	430	484	Ø 160	550



Model	*	Electrical connection	Airflow, m³/h	Voltage, V	Frequency, Hz	No. of phases	Rated current, A	Power kW	Connection Ø in/out, mm	Weight, kg	Part no.
N16	1	CEE 7/2 P+E 230 V	500-1200	220/240	50	1	8,7/4,35	0,55	160/160	15	14511321
N24	1	CEE 7/2 P+E 230 V	500-1500	220/240	50	1	11/5,5	0,75	160/160	17	14511322

\* Electric connections.



1

Accessories	Part no.
Hose and nozzle kit for portable fans N16/N24	14346590
Wheel set for portable fan N16 or N24	14371707

# Fan Manual Starter

A series of fan starters suitable for N-Series, smaller NCF-Series fans and NOM Filters.



- Lockable on/off switch
- Motor overload protector included
- Both for single and three-phase fans

Model	Rated current, A	1-phase 230V	3-phase 400V	Part no.
FMS 1 - 1.6	1 - 1,6		N10, N16, NOM4	14502137
FMS 1.6 - 2.5	1,6 - 2,5		N24, NOM11, NOM18	14502237
FMS 2.5 - 4	2,5 - 4	NOM4	N29/N40 - 1.5kW	14502337
FMS 4 - 6.3	4 - 6,3	N10, N16, NOM11	N29/N40 - 2.2kW, NCF30/15, NOM 28	14502437
FMS 6.3 - 10	6,3 - 10	N24, NOM18	NCF30/25	14502537
FMS 10 - 16	10 - 16		(NCF40/25)	14502637
FMS 14.5 - 19	14,5 - 19			14503037
FMS 18 - 25	18 - 25			14503137

# Fan Contactor

To start/stop a central fan in combination with a number of motor dampers. (Larger capacity fans may be remote controlled via a Nederman fan starter or fan inverter.) The fan switch has fan motor protection included. Protection class IP66. Coil 24V AC, from operation box or transformer.



Model	Rated current, A	No. of phases	230V	400V	Part no.
FC 3/1 - 5	1 - 5	3		N10, N16, N24, N29, N40, NCF30/15	14518137
FC 3/3.2 - 11.5	3.2 - 11.5	3		N29 2.2 kW, N40 2.2 kW, NCF 30/15, NCF 30/25	14518237
FC 1/1 - 5	1 - 5	1	N10, N16, N24		14518337
FC 1/3.2 - 11.3	3.2 - 11.3	1			14518437

# Transformers



	Description	Input voltage, V	Input frequency, Hz	Input phase	Output	No. lighting kit	Part no.
1	Power supply to spotlight kits 24V	230/250	50/60	1	24V 35VA	1 x 20W	10363189
2	Power supply to spotlight kits 24V	230/250	50/60	1	24V 75VA	3 x 20W	10361560



# Motor damper

The motor damper consists of a fan switch and an operation box that can be controlled by a contactor or switch. The operation box consists of a 30 VA transformer for the lighting kit in the extraction arm, a delay timer for fan stop variable from 0-5 minutes, and two separate connections for sensor clamps.

Single-phase power supply, 110/120-220 /240V, 50/60Hz.

The motor damper is available in two models: Manual, using a hood mounted

switch set, or automatic, using a sensor clamp on the welding set, for automatic start-up of the fan and automatic control of the damper.

- Provides optimum airflow within a multi-arm system
- Reduces energy consumption and increases efficiency
- Makes it possible to use a smaller fan and automatic start/stop function



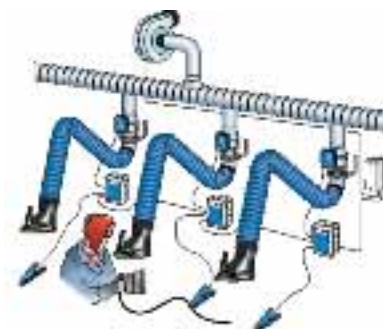
## Manual

Model	Ø, mm	Part no.
MDM 125	125	14500191
MDM 160	160	14500291
MDM 200	200	14500391

## Automatic

Model	Ø, mm	Part no.
MDA 125	125	14500491
MDA 160	160	14500591
MDA 200	200	14500691

Accessories	Part no.
Sensor clamp. One additional sensor clamp can be connected to the operation box. Used when two different welding machines are deployed in the same area.	14372199



# Fan controls

Less heated air is extracted to outside, and less electricity consumed if the fan operates only while work is in progress. Switch the fan on/off manually at the hood, or automatically with a sensor clamp. Single-phase power supply to the operation box. The automatic fan control has a sensor clamp to be attached

to the earth cable of the welding set for automatic start-up of the fan. Detects currents from 8 A. The operation box consists of a 30 VA transformer for the lighting kit in the extraction arm, a delay timer for fan stop variable from 0-5 minutes, and two separate connections for sensor clamps.



## Manual

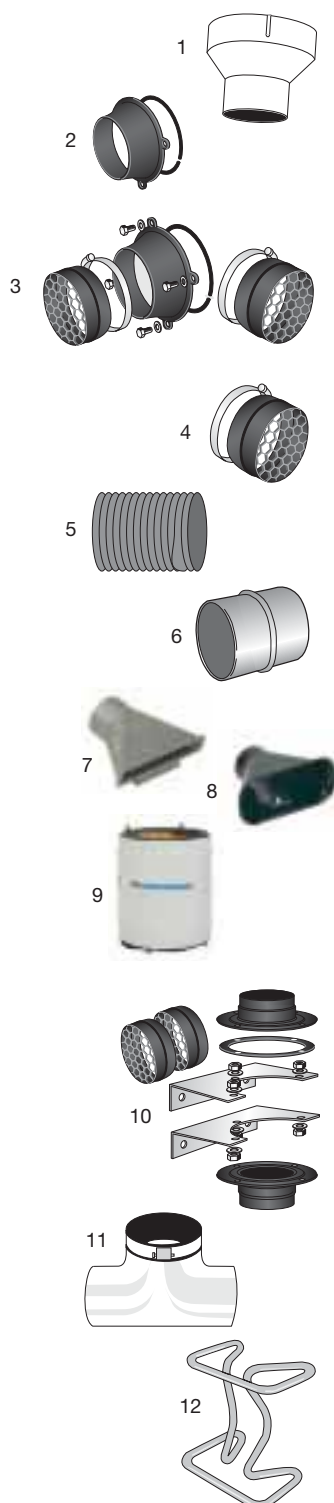
Model	Rated current, A	No. of phases	230V	400V	Part no.
FCM 3/1 - 5	1 - 5	3		N10, N16, N24, N29, N40, NCF30/15	14518637
FCM 3/3.2 - 11.5	3.2 - 11.5	3		N29 2.2 kW, N40 2.2 kW, NCF 30/15, NCF 30/25	14518737
FCM 1/1 - 5	1 - 5	1	N10, N16, N24		14518837
FCM 1/3.2 - 11.3	3.2 - 11.3	1			14518937

## Automatic

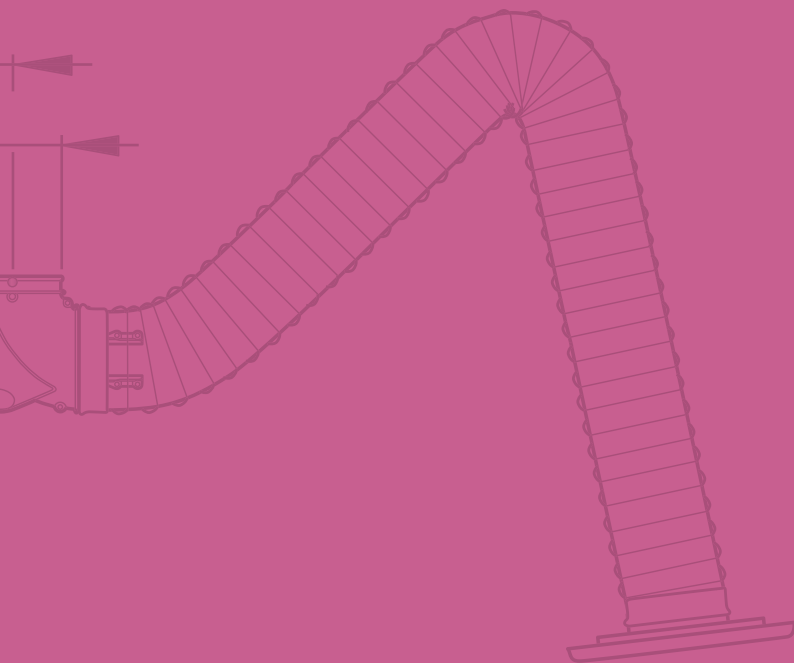
Model	Rated current, A	No. of phases	230V	400V	Part no.
FCA 3/1 - 5	1 - 5	3		N10, N16, N24, N29, N40, NCF30/15	14519037
FCA 3/3.2 - 11.5	3.2 - 11.5	3		N29 2.2 kW, N40 2.2 kW, NCF 30/15, NCF 30/25	14519137
FCA 1/1 - 5	1 - 5	1	N10, N16, N24		14519237
FCA 1/3.2 - 11.3	3.2 - 11.3	1			14519337

Accessories	Part no.
Sensor clamp. One additional sensor clamp can be connected to the operation box. Used when two different welding machines are deployed in the same area.	14372199

# Accessories



	Description	Part no.
1	Adaptor Ø125/Ø100 mm	14341077
1	Adaptor Ø125/Ø75 mm	14341080
1	Adaptor int. Ø160/ext. Ø 75 mm	14510426
1	Adaptor int. Ø160/ext. Ø 100 mm	14510526
1	Adaptor int. Ø160/ext. Ø 125 mm	14510626
1	Adaptor Ø150/Ø125 mm	14511126
1	Adaptor Ø160/Ø150 mm	14511226
2	Inlet adaptor for hose Ø160 mm for fan N10/N16/N24	14510326
3	Inlet adaptor for hose Ø160 mm and two guard nets for fan N10/N16/N24	14322166
4	Guard net (1), for fan N10/N16/N24	14333181
5	Hose. L = 5 m. Ø 100 mm. PVC. Black.	10500427
5	Hose. L = 5 m. Ø 125 mm. PVC. Black.	10500527
5	Hose. L = 5 m. Ø 150 mm. PVC. Black.	10500627
5	Hose. L = 5 m. Ø 160 mm. PVC. Black.	10511026
6	Coupling tube 3" x 3" (75 mm)	14503626
6	Coupling tube 4" x 4" (100 mm)	14504626
6	Coupling tube 5" x 5" (125 mm)	14505626
6	Coupling tube 6" x 6" (150 mm)	14506626
6	Coupling tube Ø160-Ø160 mm	14511326
7	Nozzle with magnet. 250 x 30 mm. Aluminium. Ø 100 mm.	14500226
8	Nozzle with magnet. 260 x 100 mm. Polycarbonate. Ø 100 mm.	14501226
9	Silencer for fan when mounting on Original/Telescopic	14502126
9	Silencer including quick release (for fan mounting on FilterBox)	14502226
10	Wall bracket for silencer	14343089
11	Split inlet Ø125 int. / 2 x Ø100 mm ext.	14500526
11	Split inlet Ø125 int. / 2 x Ø125 mm ext.	14500726
11	Split inlet Ø125 int. / 2 x Ø75 mm ext.	14500826
11	Split inlet Ø160 int. / 2 x Ø100 mm ext.	14510726
11	Split inlet Ø160 int. / 2 x Ø125 mm ext.	14510826
11	Split inlet Ø160 int. / 2 x Ø75 mm ext.	14510926
12	Support bracket for N10/N16/N24 for fixed mounting	14510126
12	Support bracket for N40 for fixed mounting	14510226
12	Support bracket for portable N16/N24 fan	14511426
12	Support bracket for fan N29	14321745



## Extraction arms – for a working environment free from fumes and dust.

Nederman extraction arms cover many different applications, are highly flexible, and simple to position, extend and retract. They can be extended and retracted with a single hand grip. Different attachments are available for wall, roof or extension bracket mounting. For improved efficiency and extra reach, the arms can be combined with a number of accessories such as hoods, dampers and extension arms. By mounting an extension arm on a rail, it can reach more workplaces.

For working environments with:

- Smoke
- Dust
- Vapours

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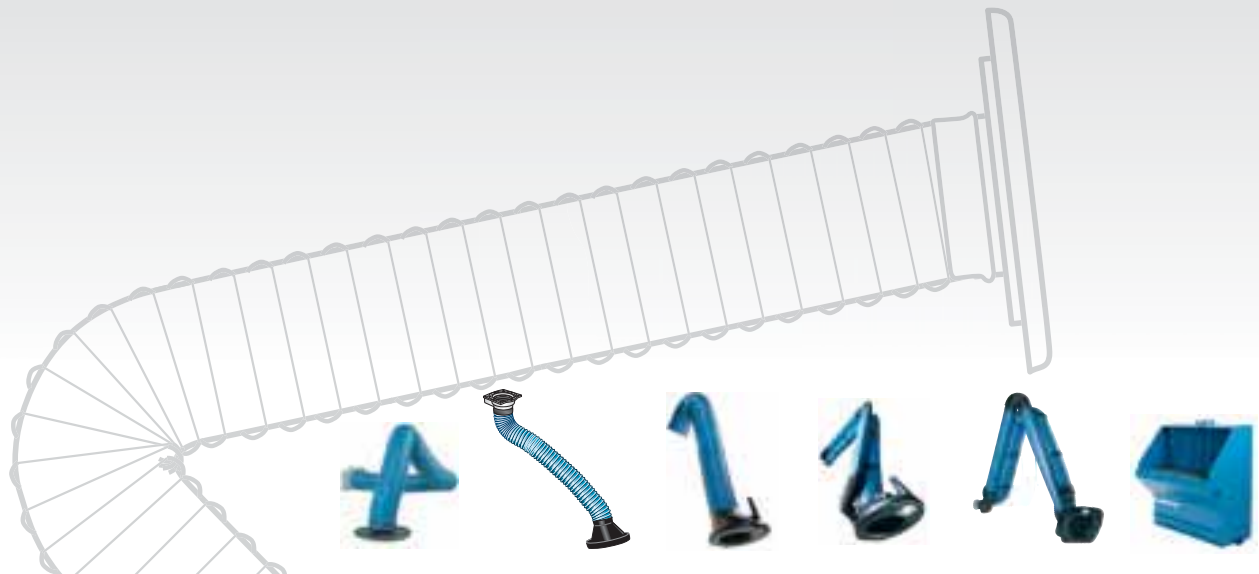
96

## EXTRACTION ARMS WELDING AND GRINDING TABLE

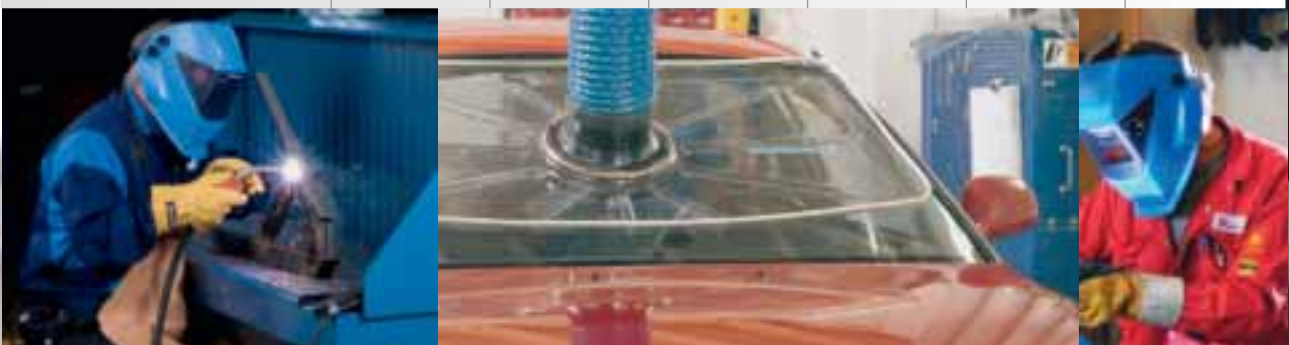


# PRODUCT GUIDE

## Extraction arms



	Standard	Telescopic	Original/ Original CR	NEX MD	NEX HD	Welding/ grinding table
Extraction of fumes, vapours and dust. Schools, restricted spaces, small booths.	X	X	X			
Extraction of fumes, vapours and dust. Small workshops, metal fabrication shops.	X	X	X	X		X
Extraction of heavy smoke, vapours and dust. Heavy engineering work- shops, welding with heavy spatter, laser cutting, grinding.				X	X	X
Recommended airflow, m³/h	600-900	600-1000	700-1000	900-1300	1000-1900	1000-4000
Max. fume temperature, °C	70	70	70	70	120	Not applicable
Noise level at hood, dB(A)	67	70	63-75	69	63	–
Damper	Optional	Optional	Standard	Standard	Standard	–
Hose material	PVC-covered aluminium foil	PVC-covered polyester fabric	PVC-covered polyester fabric	PVC-covered polyester fabric	Glass fibre rein- forced PVC covered polyester fabric	Not applicable
Connection Ø, mm	160	150/160	150/160	160	200	160/250
Note	Built-in wall bracket 180°	360° swivel swivel	360° swivel swivel	360° swivel swivel	360° swivel swivel	Not applicable

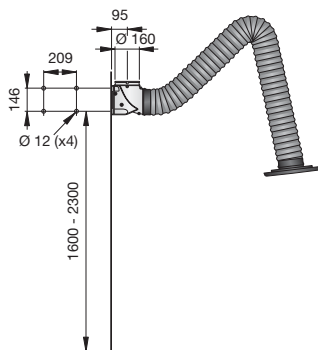




# Extraction arms

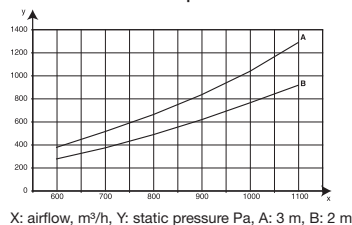
## Extraction arm Standard

- The arm is flexible in all directions and simple to position
- Designed for wall mounting with integrated wall bracket/90° bend
- Can be rotated 180°
- Can be equipped with a damper placed in the bend as an accessory
- The hood can be tilted in all directions



Nederman standard extraction arm is specially designed for working environments with fumes, vapours or non-explosive dust, where the demands for higher airflows and temperatures are moderate. Typical workplaces can be welding schools and different types of applications in light production. The applications can be welding, grinding, or other industrial processes where an easily positioned arm is required. The arm is available in two lengths, 2 and 3 m, and equipped with a high efficiency extraction hood.

### Pressure drop



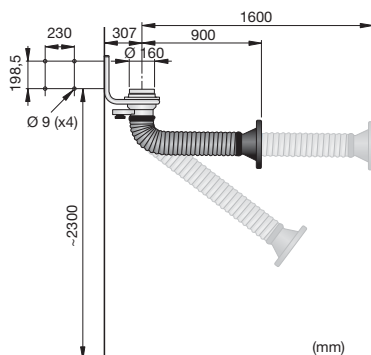
X: airflow, m³/h, Y: static pressure Pa, A: 3 m, B: 2 m



Description	Working range, m	Airflow, m³/h	Connection Ø, mm	Max. fume temperature, °C	Noise level at hood, dB(A)	Weight, kg	Part no.
Standard arm, 2 m	2	600-900	160	70	67	11	10500238
Standard arm, 3 m	3	600-900	160	70	67	13	10500338

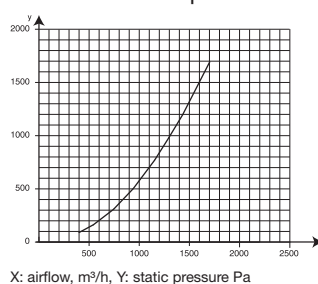
## Extraction arm Telescopic

- The arm is flexible in all directions and simple to position and to extend
- The arm has a balanced telescopic action by an adjustable balance block
- The assembly is suspended by a swivel, which allows it to rotate 360°
- The hood can be tilted in all directions



The Nederman telescopic arm is specially designed for working environments with fumes, vapours or non-explosive dust, where the space is limited. Typical workplaces can be welding schools or for production in small welding booths. The applications can be welding, grinding, or other industrial processes where a small, easily positioned arm is required. The reach of the arm is between 0.9 and 1.6 m.

### Pressure drop



X: airflow, m³/h, Y: static pressure Pa



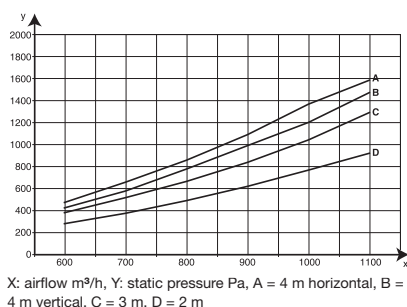
Description	Working range, m	Airflow, m³/h	Connection Ø, mm	Max. fume temperature, °C	Noise level at hood, dB(A)	Weight, kg	Part no.
Telescopic arm with metal hood	0,9-1,6	600-1000	160	70	76	12	10502531
Telescopic arm with original hood	0,9-1,6	600-1000	160	70	76	12	10502331

## Extraction arm Original

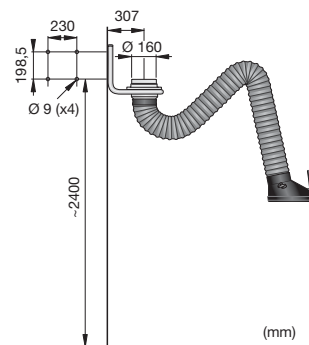


It is specially designed for working environments with fumes, vapours or non-explosive dust. Typical workplaces are the metal fabrication industry or other types of industries where extraction is needed. The applications can be welding, grinding, or other industrial processes where an easily positioned arm is required. The product is equipped with a damper in the hood as standard.

### Pressure drop



- A swivel allows the product to rotate 360°.
- The arm is flexible in all directions and simple to position.
- The product can be mounted in combination with different brackets, extension arms, on a rail system or on fixed or mobile filter equipment.
- The product is equipped with a damper in the hood as standard.
- The hood on all models can be tilted in all directions.



Description	Working range, m	Airflow, m³/h	Connection Ø, mm	Max. fume temperature, °C	Noise level at hood, dB(A)	Weight, kg	Part no.
Original arm 2 m	2	700-1000	150/160	70	63-75	11	10554235
Original arm 3 m	3	700-1000	150/160	70	63-75	13	10554335
Original arm 4 m, vertical	4	700-1000	150/160	70	63-75	16	10554435
Original arm 4 m, horizontal	4	700-1000	150/160	70	63-75	16	10554535

Kit consists of	Part no.
Original arm 2 m + N16, 3-phase, 230/400V fan + wall bracket + manual fan starter	10230030
Original arm 3 m + N24, 3-phase, 230/400V fan + wall bracket + manual fan starter	10230040
Original arm 4 m vertical + N24, 3-phase, 230/400V fan + wall bracket + manual fan starter	10230050

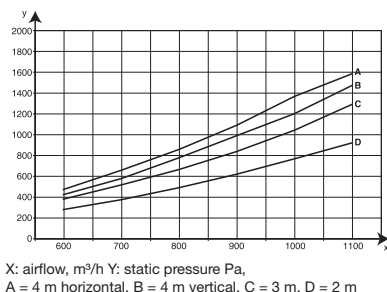
## Extraction arm, original CR

Specially designed for working environments with fumes, vapours or non explosive dust. The arm has extended corrosion protection since all aluminium details including the arm

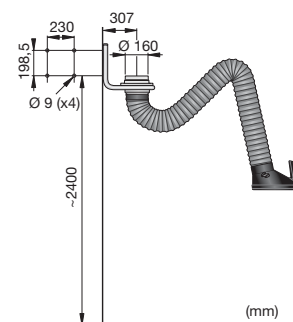
system are anodised. Typical workplaces are the food, pharmaceutical and chemical industries, and any other industry where an easily positioned corrosion-resistant arm is required.



### Pressure drop



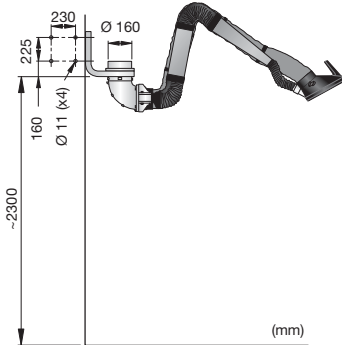
- A swivel allows the product to rotate 360°.
- The arm is flexible in all directions and simple to position.
- The product can be mounted in combination with different brackets, extension arms, on a rail system or on fixed or mobile filter equipment.
- Equipped with a damper in the hood as standard.
- The hood on all models can be tilted in all directions.



Description	Working range, m	Airflow, m³/h	Connection Ø, mm	Max. fume temperature, °C	Noise level at hood, dB(A)	Weight, kg	Part no.
Original arm CR 2 m	2	700-1000	150/160	70	63-75	11	10532535
Original arm CR 3 m	3	700-1000	150/160	70	63-75	13	10532235
Original arm CR 4 m, vertical	4	700-1000	150/160	70	63-75	16	10532335
Original arm CR 4 m, horizontal	4	700-1000	150/160	70	63-75	16	10532435

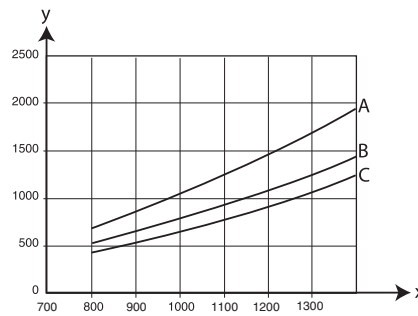
## Extraction arm NEX MD

- Robust swivel - allows 360° rotation.
- Encapsulated support mechanism protects the arm against dust and dirt.
- Can be mounted on brackets, extension arms and rail systems.
- With a damper in the hood - saves energy when not in operation.
- The hose is easy to remove for cleaning.
- The hood can be tilted in all directions.



Nederman NEX MD is an extraction arm for medium to heavy duty applications. The arm has a Ø160 mm hose, which together with the external arm system provides a high airflow and a low pressure drop. Perfectly balanced and simple to position.

### Pressure drop

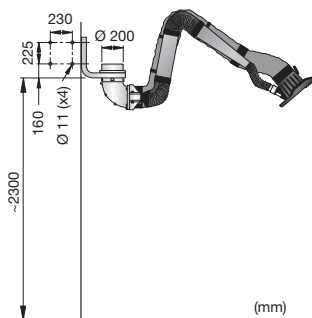


X: airflow, m³/h, Y: static pressure Pa, A: 5 m, B: 4 m, C: 2 m and 3 m



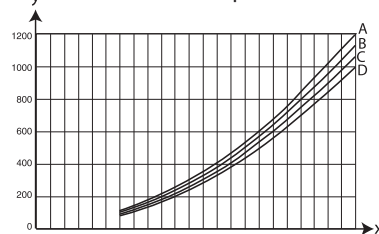
Description	Working range, m	Airflow, m³/h	Connection Ø, mm	Max. fume temperature, °C	Noise level at hood, dB(A)	Weight, kg	Part no.
NEX MD, 2 m	2	900-1300	160	70	66	16	10561032
NEX MD, 3 m	3	900-1300	160	70	63	20	10561132
NEX MD, 4 m	4	900-1300	160	70	63	27	10561232
NEX MD, 5 m	5	900-1300	160	70	63	32	10561332

- Robust swivel, which allows the product to rotate 360°.
- Support mechanism of the arms is a capsulated which protects against dirt.
- Can be mounted in combination with different brackets, extension arms or on rail systems.
- Equipped with a damper in the hood as standard.
- The hose is easy to remove for cleaning.
- Minimized pressure drop and a low noise level.



The Nederman NEX HD extraction arm is the top of the range arm when it comes to high airflows and extraction from processes with higher temperatures than normal. The arm is specially designed for working environments with very heavy smoke, vapours or non explosive dust. The applications can be welding, laser or hand plasma cutting, metal spraying, grinding where lots of spatter is generated, or other industrial processes where a perfectly balanced and easily positioned arm is required.

### Pressure drop

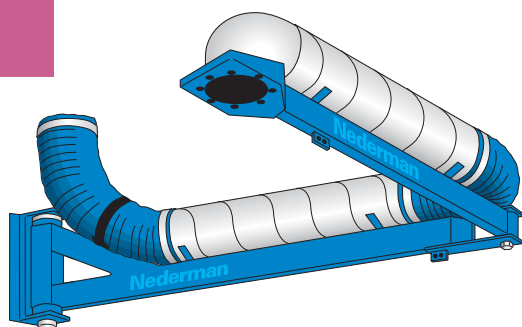


X: airflow, m³/h, Y: static pressure Pa, A: 5 m, B: 4 m, C: 3 m, D: 2 m



Description	Working range, m	Airflow, m³/h	Connection Ø, mm	Max. fume temperature, °C	Noise level at hood, dB(A)	Weight, kg	Part no.
NEX HD, 2 m	2	1000-1900	200	120	66	17	10560232
NEX HD, 3 m	3	1000-1900	200	120	63	21	10560332
NEX HD, 4 m	4	1000-1900	200	120	63	28	10560432
NEX HD, 5 m	5	1000-1900	200	120	63	33	10560532

# Extension arm



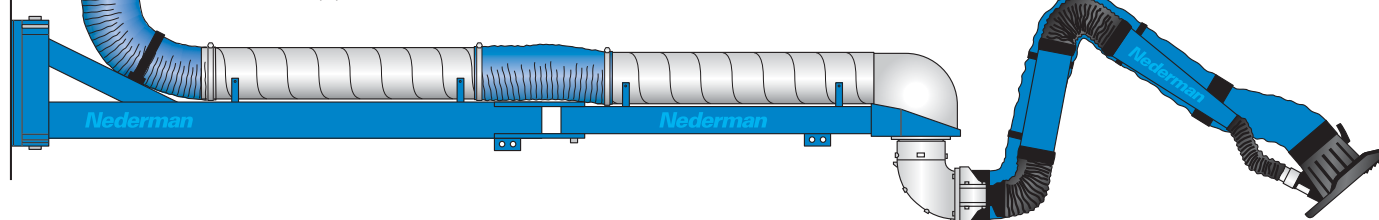
The Nederman extension arm, 4.2 m or 6.0 m, is designed to be used when extra reach is needed. Combine it with fume or dust extraction arms, or exhaust extraction equipment for cars or trucks. Made of robust steel profiles. Suspended by a pivoting wall bracket and equipped with a joint in the middle, which makes it flexible in all directions. It is possible to add other equipment to the extension arm, such as welding machines, and hose and cable reels.

- A universal bracket makes it possible to fit additional equipment directly on to the extension arm.
- The hose kit must be ordered separately.

Recommended extraction arms	
Extraction arm, original	Max. 4 m
Extraction arm NEX MD	Max. 3 m
Extraction arm NEX HD	Max. 3 m

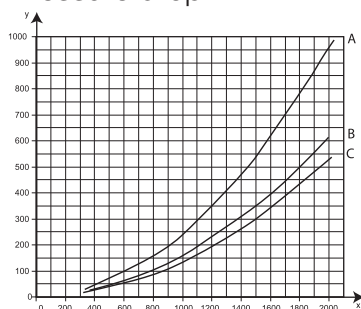


Examples of extension arm with additional equipment.

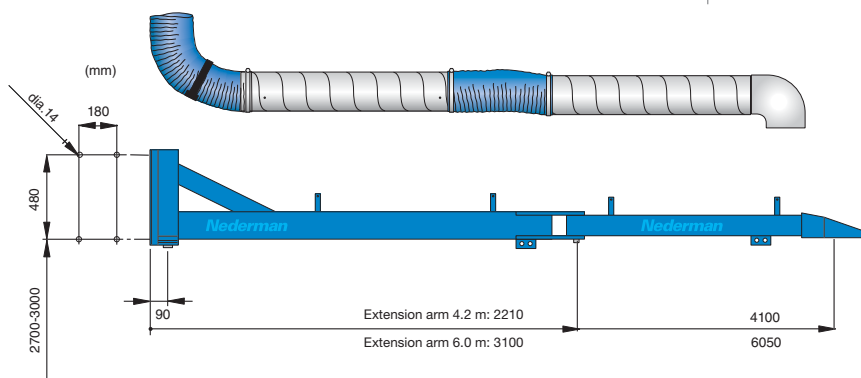


Recommended airflow	Max. 2000 m³/h
Recommended maximum negative pressure	3000 Pa
Connection diameter	200 mm
Maximum load on outer arm 4.2 m	100 kg
Maximum load on outer arm 6.0 m	60 kg
Recommended installation height from floor level	2.7-3.0 m

## Pressure drop



X: airflow, m³/h Y: static pressure Pa  
A: Extension arm bent 40° (to its limit).  
B: Extension arm bent 90°.  
C: Straight extension arm.



Description	Recovery rate by weight, %	Weight, kg	Materials	Part no.
Extension arm 4.2 m	100	73	Powder painted steel	10506635
Extension arm 6.0 m	100	93	Powder painted steel	10507735

Hose kit consists of	Max. temp of extracted air, °C	Recovery rate by weight, %	Weight, kg	Materials	Part no.
Hose kit 4.2 m, fumes	70	92	8	Galvanized steel pipe, PVC hose	10374376
Hose kit 6.0 m, fumes	70	95	13	Galvanized steel pipe, PVC hose	10374360

Accessories	Recovery rate by weight, %	Weight, kg	Materials	Part no.
Cable for lighting kit	-	-	-	10345292



## Fume extractor on rail

The Nederman fume extractor trolley with extractor arm, is intended to be used in combination with the rail Nederman ALU 150 when extraction from long working areas is required.

- One extraction arm can serve several work places.
- The trolley is easily moved along the rail.
- The trolley fits Nederman extraction arms shown below.

Recommended extraction arms	
Extraction arm, original	Max. 4 m
Extraction arm, telescopic	All models
Extraction arm NEX MD	Max. 3 m
Extraction arm NEX HD	Max. 3 m
Accessories	
Top outlet, Ø 200 mm	20940410

Description	Length, m	Part no.
Trolley		20940210
Rail stiffener, one per metre of rail		20373942
Straight rail ALU 150*	2,5	20900510
Straight rail ALU 150*	5,0	20900610
Straight rail ALU 150*	7,5	20900710
Straight rail ALU 150*	10,0	20900810
Straight rail ALU 150*	12,5	20900910
Straight rail ALU 150*	15,0	20901010
Straight rail ALU 150*	17,5	20901110
Straight rail ALU 150*	20,0	20901210
Straight rail ALU 150*	22,5	20901310
Straight rail ALU 150*	25,0	20901410
Straight rail ALU 150*	27,5	20901510
Straight rail ALU 150*	30,0	20901610
Straight rail ALU 150*	35,0	20901710
Straight rail ALU 150*	40,0	20901810
Straight rail ALU 150*	45,0	20901910
Straight rail ALU 150*	50,0	20902010



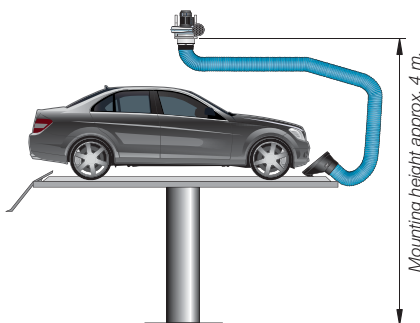
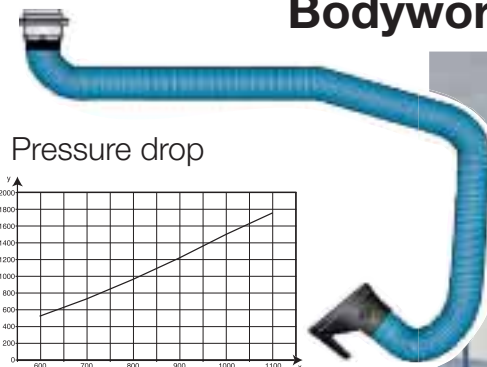
\* Including rubber lips, joint connectors, suspension brackets, limit stops and end covers.

For rail lengths > 50 m, please contact your local Nederman dealer.

## Bodywork extraction arm

The Nederman bodywork extraction arm is based on the Original arm. It is specially designed to extract fumes, dust and vapours created during vehicle body work when welding, grinding or painting. The arm is available in a length of 5 m and can be mounted in combination with different types of brackets.

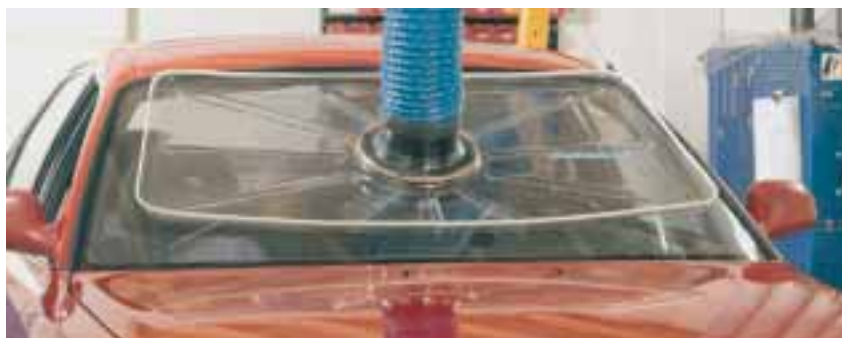
- A swivel allows the product to rotate 360°.
- The arm is flexible in all directions and simple to position.
- The product is equipped with a damper in the hood as standard.
- Two 4-way friction joints makes it easy to position above or below vehicle body.
- The 5m length gives easy access to all four corners of the vehicle.



Description	Working range, m	Airflow, m³/h	Connection Ø, mm	Max. fume temperature, °C	Noise level at hood, dB(A)	Weight, kg	Part no.
Bodywork arm, 5 m	5	700-1000	150/160	70	65-70	18	10554935

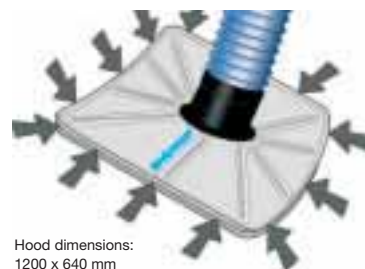
# Extraction arms

## Windscreen extraction arm



The Nederman windscreen extraction arm is based on the Original arm and specially designed for extraction of adhesive vapours generated when removing or replacing windcreens. The arm is available in a length of 4 m and has a rectangular extraction hood with an elongated opening along the edge, designed to take care of the vapours when working with windscreen glue.

- Suspended by a swivel, which allows the product to rotate 360°.
- Flexible in all directions and simple to position.
- Can be mounted in combination with different brackets, extension arms or on rail systems.
- Equipped with a damper in the hood as standard.



Description	Working range, m	Airflow, m³/h	Connection Ø, mm	Max. fume temperature, °C	Noise level at hood, dB(A)	Weight, kg	Part no.
Windscreen hood with damper on an original 4m horizontal arm	4	700-900	150/160	70	65-70	17	10553535
Windscreen hood with damper	-	700-900	150/160	70	-	2	10372173

## Extraction arms for explosive environments

The range of NEX extraction arms is specially designed for working environments with fumes, vapours or explosive dust and also where the hygienic demands are high and large airflows are required. Typical workplaces can be found in the pharmaceutical, food processing and technical/chemical industries.



### Extraction arm NEX D

Enclosed support arm, separate hose and a stainless steel hood means the NEX arm requires little maintenance and is easy to clean. The arm is single earthed by the helix in the hose. The hose is made of PVC with FDA approved components.

The NEX D is recommended for use in explosive environments, zone 22.



### Extraction arm NEX DX

Enclosed support arm, separate hose and a stainless steel hood means the DX arm requires little maintenance and is easy to clean. The arm is double earthed by the helix in the hose and through the arm system. The hose is made of polyurethane.

The NEX DX is recommended for use in explosive environments, zone 21.



### Extraction arm NEX S

Open support arm system and hood of acid proofed polished stainless steel requires little maintenance and makes it easy to clean. The arm is double earthed by the helix in the hose and through the arm system.

The Nederman NEX S is recommended for use in explosive environments, zone 1/21, 2/22.

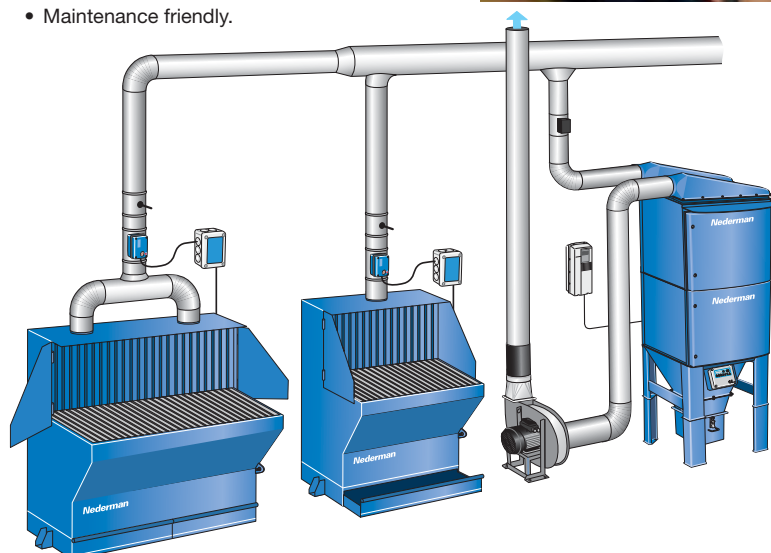
# Welding and grinding table

Industrial welding and grinding table for extracting fumes, dust and particles from welding and grinding operations. It can also be used in explosive environments, if earthed accordingly. The table is not suitable for cutting. The table can be used to suspend the welding torch when not in use. Underneath the working area a dust drawer takes care of the heavy dust.

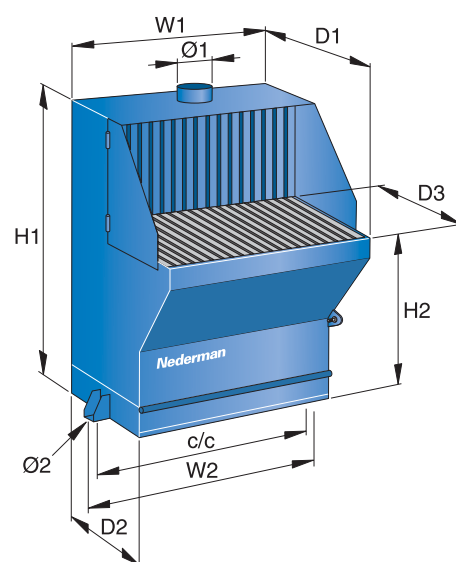
The drawer can easily be emptied from the front of the table. The duct connection for the external fan is located on top of the table and it is recommendable to use a filter device between the table and the fan.



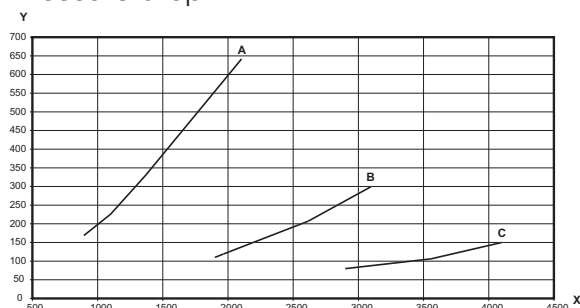
- Easy to install.
- Sturdy industrial design.
- Flexible in terms of installation possibilities.
- Flexible extraction capacity.
- Maintenance friendly.



Two welding and grinding tables connected to a FilterMax DF 80 and an NCF central fan. Installation is controlled by a fan inverter. Each extraction point can be closed off with a motor damper.



## Pressure drop



X: Airflow, m³/h, Y: Static pressure (Pa), A=900, B=1350, C=2000

Description	Rec. air-flow m³/h	Volume, dust container, litres	Weight, kg	W1	W2	D1	D2	D3	H1	H2	C/C	Ø 1	Ø 2	Part no.
Welding/grinding table 900	1000-2000	64	175	900	1000	820	530	550	1450	850	970	160	12	10500133
Welding/grinding table 1350	2000-3000	96	260	1355	1455	820	530	550	1450	850	1425	250	12	10500233
Welding/grinding table 2000	3000-4000	143	360	2000	2100	820	530	550	1450	850	2070	2x250	12	10500333

## Accessories for extraction arms



	Description	Original	Telescopic	Standard	NEX HD	NEX MD	Part no.
1	Wall bracket for 2 m and 3 m arm				x	x	10372215
2	Wall bracket for 4 m and 5 m arm				x	x	10372722
3	1 m extension, wall bracket				x	x	10512732
4	2 m extension, wall bracket for 2 m and 3 m arm				x	x	10512832
5	Wall bracket	x	x				10550635
6	1 m extension, wall bracket	x	x				10550735
7	2 m extension, wall bracket	x	x				10550835
8	Spotlight/fan switch, 24V, 20W, original hood *	x	x			x	10551235
	Relay for spotlight, part no. 10551235 *	x	x				14374307
8	Spotlight/fan switch, 24V, 20W, metal hood	x	x				10507435
8	Spotlight/fan switch, 24V, 20W				x		10512432
8	Spotlight/fan switch, 24V, 20W, MD hood *					x	10554635
8	Fan switch				x		10512532
8	Fan switch, metal hood	x	x				10371080
9	Spark protection, original hood	x	x			x	10551335
9	Spark protection, metal hood	x	x				10373118
9	Spark protection NEX HD				x		10512632
9	Spark protection, large metal hood	x	x				10376329
10	Large metal hood with damper	x	x				10321542
11	Damper			x			10500438
12	Silencer for fan	x	x				14502126
12	Silencer for fan				x	x	14502626
13	Wall bracket for silencer	x	x		x	x	14343089

\*) When using external power 24 V and no Nederman fan starter, a relay (part no. 14374307) must be installed between the spotlight and the switch.

## Replacement parts extraction arms

Extraction arms			
Model	Product no.	Hose Replacement part no.	Wear set Replacement part no.
Standard	10500238	10374206	
	10500338	10374207	
	10554235	10341859	10344540
Original	10554335	10333026	10344540
	10554435	10341860	10344540
	10554535	10341860	10344540
Original CR	10532535	10371595	10344540
	10532235	10371429	10344540
	10532335	10332699	10344540
Telescopic	10532435	10332699	10344540
	10502531	10343624	10371087
	10502331	10343624	10371087
NEX MD	10561032	10341859	10375009
	10561132	10333026	10375009
	10561232	10341860	10375009
	10561332	10332856	10375009

Extraction arms				
Model	Product no.	Hose Replacement part no.	Wear set Replacement part no.	Front hose Replacement part no.
NEX HD	10560232	10373395	10375006	10373399
	10560332	10373396	10375006	10373399
	10560432	10373397	10375006	10373399
Ext. arm	10560532	10373398	10375006	10373399
	10506635		10345214	
	10507735		10345214	
Bodywork arm	10554935	10332856	10344540	
Windscreen	10553535	10341860	10344540	
		Grid		
Welding table	10500133	10374596		
	10500233	10374597		
	10500333	10374598		



## Bench top extraction systems for all environments.

The Nederman bench top systems can be used in every type of environment, from assembly stations, where soldering fumes are extracted, to laboratories, where protection against highly corrosive or noxious gases is vital.

Bench top extraction systems are available both as complete packages and as individual components.

- Many mounting alternatives:  
standing, hanging or attached to the wall
- Flexible in all directions
- Low pressure drop and low noise level

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## BENCH TOP EXTRACTION SYSTEMS

# PRODUCT GUIDE

## Bench top extraction systems



Type	FX32	FX50	FX75	FX100
Description	Flexible plastic hose without joints.	Lightweight, anodised aluminium arms with adjustable plastic friction joints.	Lightweight, anodised aluminium arms with adjustable plastic friction joints.	Lightweight, anodised aluminium arms with adjustable plastic friction joints.
Application	A cost-effective arm for small workplaces and light applications, for extraction of soldering fumes and light particles.	For extraction of light fumes, dust etc. Capacity up to 110 m³/h.	For use where a higher capacity is needed - up to 240 m³/h.	For industrial, large scale laboratories, workshops etc. where a high extraction capacity is required - up to 500 m³/h. Removes dust, larger particles (welding, soldering).
Arm Ø, mm	32	50	75	100
ORIGINAL For normal use	x	x	x	x
ESD/EX For electronic applications and in environments with risk of explosion	x (only ESD)	x	x	x
CHEM For chemical applications with corrosive gases.			x	x



## Bench top extraction kits

The bench top extractor kit includes FX Original extraction arm(s) with hood or nozzle, fan N3 with speed control and standard filter (particle, HEPA and gas), hose(s), connection details and bench bracket(s).



Extraction kit 500  
1 x arm, Ø 32 mm  
1 x dome hood 1/2



Extraction kit 2000  
1 x arm, Ø 50 mm  
1 x combination hood



Extraction kit 1000  
2 x arms, Ø 32 mm  
2 x dome hoods 1/2



Extraction kit 2500  
2 x arms Ø 50 mm  
2 x mini hoods



Extraction kit 1500  
3 x arms, Ø 32 mm  
3 x dome hoods 1/2

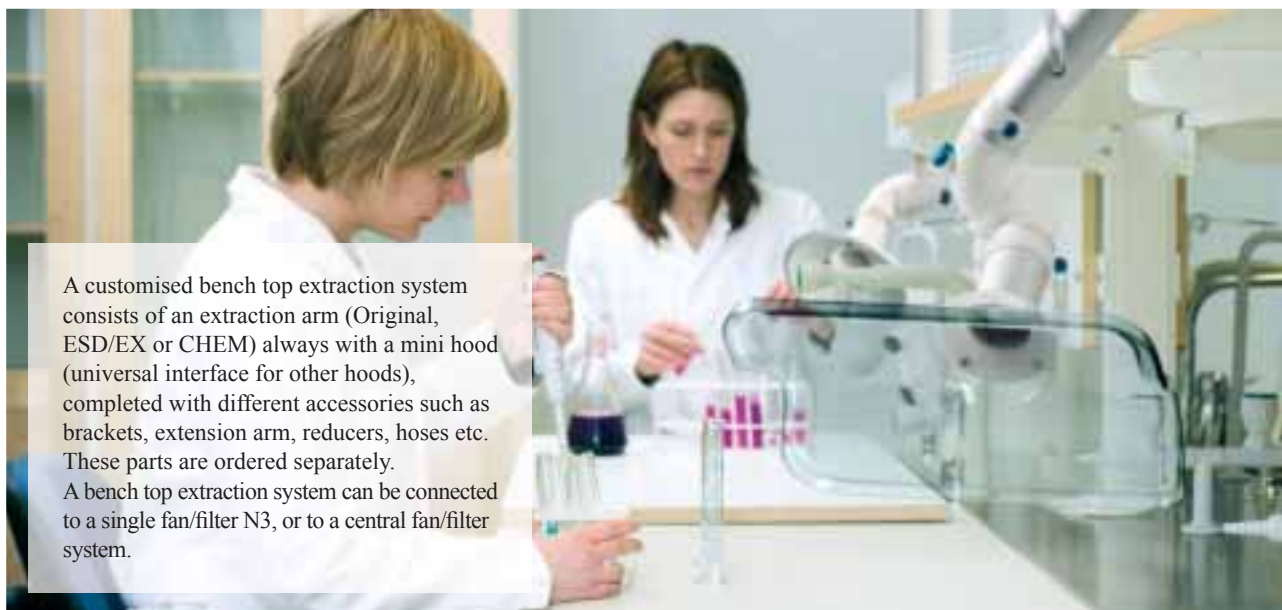


Extraction kit 3000  
1 x arm, Ø 75 mm  
1 x mini hood



Kit	Description of arm(s)	Max. airflow, m³/h	V / electric plug	Frequency, Hz	Power, W	Arm Ø, mm	Arm length, mm	Hose Ø, mm	Hose length, m	Temperature of extracted air, °C	Weight of complete kit, kg	Part no.
500	1 x FX32	45	220-240 / EUR	50/60	170	32	850	45	3,0	-10 to +70	11	70510634
1000	2 x FX32	42	220-240 / EUR	50/60	170	32	850	45	3,0	-10 to +70	13	70511134
1500	3 x FX32	38	220-240 / EUR	50/60	170	32	850	45	3,0	-10 to +70	15	70511634
2000	1 x FX50	100	220-240 / EUR	50/60	170	50	1100	75	3,0	-10 to +70	14	70505044
2500	2 x FX50	75	220-240 / EUR	50/60	170	50	1100	75	3,0	-10 to +70	17	70505644
3000	1 x FX75	150	220-240 / EUR	50/60	170	75	1100	100	3,0	-10 to +70	15	70506244

## Bench top extraction arms



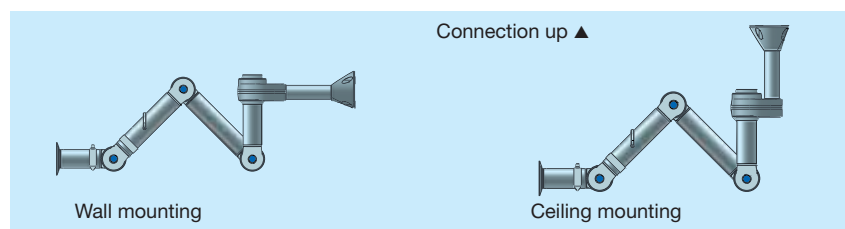
A customised bench top extraction system consists of an extraction arm (Original, ESD/EX or CHEM) always with a mini hood (universal interface for other hoods), completed with different accessories such as brackets, extension arm, reducers, hoses etc. These parts are ordered separately. A bench top extraction system can be connected to a single fan/filter N3, or to a central fan/filter system.

### Arms

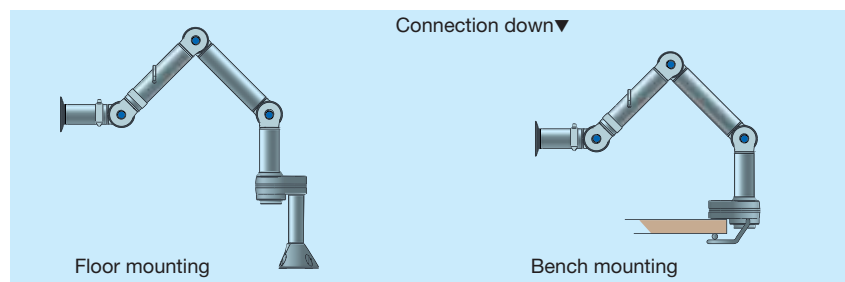
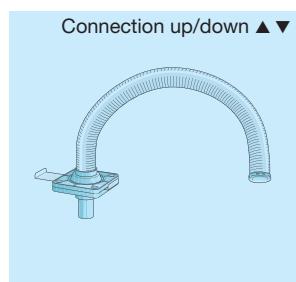
Connection direction*	Arm Ø, mm	Arm length, mm	Recommended airflow, m³/h	Temperature of extracted air, °C	ORIGINAL Part no.	ESD/EX Part no.	CHEM Part no.
Up/down ▲ ▼	32	850	20–60	-	70502834	70502934	-
Up/down ▲ ▼	50	700	50–110	-10 to +70	70510144	70530144	-
Down ▼	50	1100	50–110	-10 to +70	70510244	70530244	-
Down ▼	50	1500	50–110	-10 to +70	70510444	70530444	-
Up ▲	50	1100	50–110	-10 to +70	70510344	70530344	-
Up ▲	50	1500	50–110	-10 to +70	70510544	70530544	-
Down ▼	75	1100	110–240	-10 to +70	70540144	70560144	70550144
Down ▼	75	1500	110–240	-10 to +70	70540344	70560344	70550344
Up ▲	75	1100	110–240	-10 to +70	70540244	70560244	70550244
Up ▲	75	1500	110–240	-10 to +70	70540444	70560444	70550444
Up/down ▲ ▼	100	1200	200–450	-10 to +70	70570144	70590144	70580144
Down ▼	100	1800	200–450	-10 to +70	70570244	70590244	70580244
Up ▲	100	1800	200–450	-10 to +70	70570344	70590344	70580344
Up ▲	100	2400	200–450	-10 to +70	70570544	70590544	70580544

\*Note: Different spring mechanisms are fitted depending on connection direction.

### Arm 50/75/100



### Arm 32

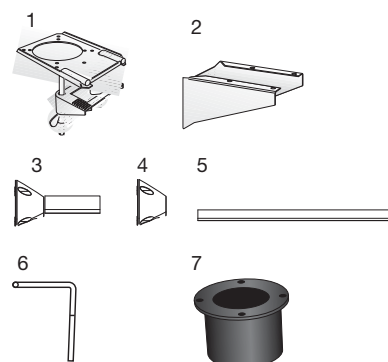




## Brackets

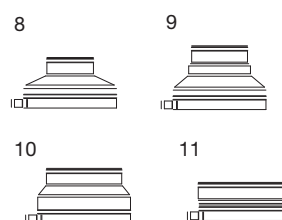
	Description	Fits arm of model	Size, mm	Part no.
1	Bench bracket	32		70371761
2	Wall bracket	32		70371760
3	Complete bracket	50 / 75 / 100	L=250	70501144
4	Bracket	50 / 75 / 100		70501244
5	Extension profile	50 / 75 / 100	L=1100	70501344
	Extension profile	50 / 75 / 100	L=2200	70374600
6	Bench bracket	50 / 75 / 100		70501444
	Ring cover, roof	50 / 75	Ø 130, T=3	70502644
7	Support collar	50 / 75 / 100		70502744

## Accessories



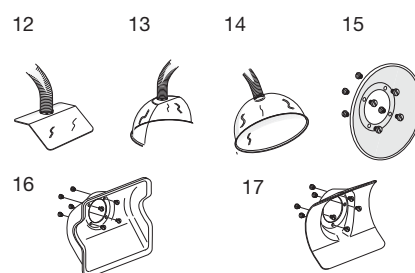
## Reducers

	Description	Fits arm of model	Size, mm	Part no.
8	Reducer	50 / 75 / 100	Ø 63	70500644
9	Reducer	50 / 75 / 100	Ø 75-80	70500744
10	Reducer	50 / 75 / 100	Ø 100	70500844
11	Reducer	50 / 75 / 100	Ø 125	70500944



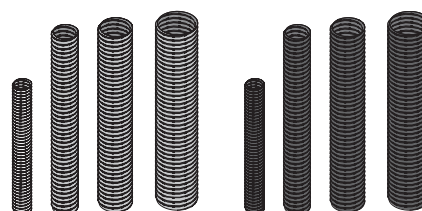
## Hoods

	Description	Fits arm of model	Size, mm	ORIGINAL Part no.	ESD/EX Part no.	CHEM Part no.
12	Flange hood	32	150x160	70371525	-	-
13	Dome hood 1/2	32	260x120	70371756	70371807	-
14	Dome hood 1/1	32	Ø 260	70371757	70371808	-
15	Metal hood	50 / 75 / 100	Ø 280	70500444	70500544	70500444
16	Combination hood	50 / 75 / 100	380x460	70500144	70500244	70500344
17	Flange hood	50 / 75 / 100	260x335	70502844	70502944	70503044



## Hoses

Hose Ø, mm	Length, mm	ORIGINAL Colour	ORIGINAL Part no.	ESD/EX Colour	ESD/EX Part no.
32	1500	black	70400051	-	-
45	3000	white	70501644	black	70502044
75	3000	grey	70501544	black	70501944
100	3000	grey	70501744	black	70502144
125	5000	grey	70501844	black	70502244



## Down flow grille FD 23

An extraction device designed to be integrated into the bench top. It is highly effective in capturing the heavy fumes from gluing, solvents and similar processes. Recommended for use together with fan N3 and filter.

Description	Dimensions	Part no.
Down flow grille made of stainless steel	Grille Ø 260 mm, connection Ø 45 mm	70373527
Reducer, 45/32 mm		70373605



## N3 fan and filter cartridge



The unit consists of a separate filter cartridge and a N3 fan. It is designed for extraction and filtration of fumes and vapours emitted when soldering, gluing or working with solvents. For use in different combinations with the FX arms or the down flow grille FD 23.

- Easy to install.
- The standard filter cartridge consists of particle, HEPA and gas filters.
- The gas filter cartridge is a pure carbon filter.
- The filter cartridges are disposable and easy to change.

Accessories	Part no.
Silencer/ESD box for bench top kit 1000-3000	70311429
Adapter for connecting two N3 filter cartridges	70332904

Filters for Kit 500 – 3000	Filter cartridge, standard	Filter cartridge, gas
Part no.	70311427	70312427
Filtration efficiency at 99.97 0.3 µm DOP, %	99,97	-
Particle filter area, m²	2,5	-
Gas adsorption media, kg	1,5	4
Size, LxWxH, mm	388x288x285	388x288x285
Weight, kg	4,8	9,8
Fan with speed control	With EUR plug	
Part no.	70800134	
Power, kW	0,17	
Airflow, m³/h	300	
Voltage, V	220-240	
Frequency, Hz	50/60	
No. of phases	1	
Connection Ø, mm	125	
Size, LxWxH	320x140x270	
Weight, kg	4,6	
Complete unit Fan/Filter		
Noise level, dB(A)	60	60
Height, mm	555	555
Weight, kg	8,4	13,4

## Replacement parts extraction arms

Bench top extraction kits		Mounting kit Ø 50	Mounting kit Ø 75	Mounting kit Ø 100
Model	Product Part no.	Replacement part Part no.		
ORIGINAL	70510144	70374320		
	70510244	70374320		
	70510444	70374320		
	70510344	70374320		
	70510544	70374320		
	70540144		70374322	
	70540344		70374322	
	70540244		70374322	
	70540444		70374322	
	70570144			70374325
	70570244			70374325
	70570344			70374325
	70570544			70374325
ESD/EX	70530144	70374321		
	70530244	70374321		
	70530344	70374321		
	70530444	70374321		

Bench top extractors		Mounting kit Ø 50	Mounting kit Ø 75	Mounting kit Ø 100
Model	Product Part no.	Replacement part Part no.		
ESD/EX	70530544	70374321		
	70560144		70374323	
	70560244		70374323	
	70560344		70374323	
	70560444		70374323	
	70590144			70374326
	70590244			70374326
	70590344			70374326
	70590544			70374326
CHEM	70550144		70374324	
	70550244		70374324	
	70550344		70374324	
	70550444		70374324	
	70580144			70374327
	70580244			70374327
	70580344			70374327
	70580544			70374327

For more information on our complete range of replacement parts, please visit our website.



## Material separators for easier final handling.

Our range includes four types of material separators: cyclones, rotary valves, separators and cutters. Cyclones are used to separate large volumes of material.

Rotary valves are used to transfer material between two separate systems with minimum air loss. Our rotary valves can handle high material flow and large particles. NFV separators separate shredded paper and plastic material.

Our range also includes separators to handle up to 20 000 m<sup>3</sup>/h of air. Knife cutters are used to shred things like paper, plastic and metal foil so the material can then be transported via a duct system.

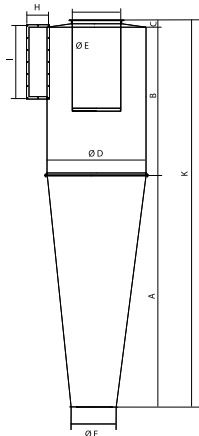
- Cyclones
- Rotary valves
- NFV separators
- Knife cutters

## MATERIAL SEPARATION

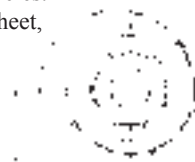
103

110

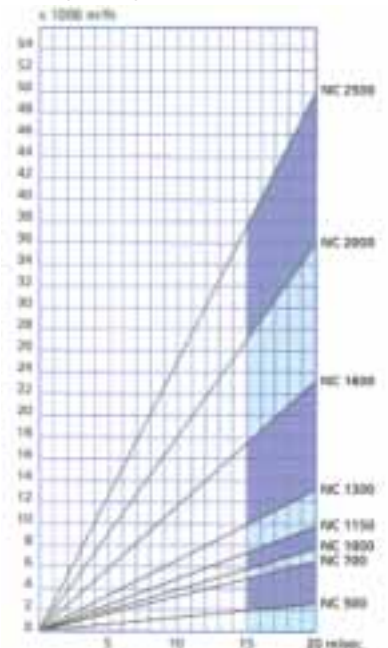
## NC type 0500 – 2500 Cyclone



The cyclone is a separator that uses centrifugal force to clean air that contains chips or dust. The filtration efficiency depends on the speed of rotation of the particles, their density and size. Efficiency approx. 90% for particles over 10 micron. Higher efficiency for larger particles. Made of 2 or 3 mm thick steel sheet, depending on size. The cyclone is available with a wide range of accessories.



### Capacity curves

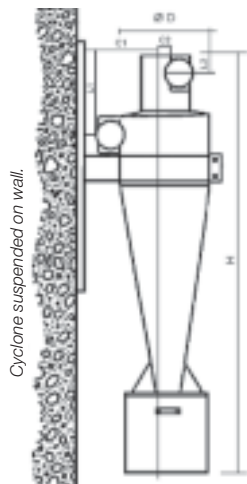


- Design:** 2-3 mm steel sheet.  
Max. temp. 75 °C with standard paint.
- Finish:** RAL 5009 blue
- Accessories:** Stand. inlet with QF or FL flange. Tangential outlet, left or right.  
Joint for rotary valves.  
Dust container.

NC 0500 - 2500	
NC cyclone, left (as per drawing)	47011.xxx
NC cyclone, right (mirror image of drawing)	47010.xxx
Inlet, QF (NC 0500 – NC 1300)	22019.xxx
Inlet, FL (NC 0500 – NC 2500)	22219.xxx
Tangential outlet left for NC right cyclone	47020.xxx
Tangential outlet right for NC left cyclone	47021.xxx
Transition for NRS 4 rotary valve	47030.xxx
Transition for NRS 10 rotary valve	47035.xxx
Waste bin for cyclone	47100.000

Type	A mm	B mm	C mm	Ø D mm	Ø E mm	Ø F mm	H mm	I mm	J mm	K mm	Weight, kg
NC 0500	1000	700	80	500	250	200	126	285	305	1780	53
NC 0700	1430	990	60	700	400	315	206	444	501	2480	123
NC 1000	2048	1500	100	1000	560	400	216	485	606	3648	306
NC 1150	2395	1800	100	1150	630	450	240	550	675	4300	433
NC 1300	2825	2000	120	1300	710	450	300	600	700	4945	550
NC 1600	3300	2300	100	1600	900	500	357	905	600	5700	804
NC 2000	3930	2600	170	2000	1200	630	401	1247	1200	6700	1278
NC 2500	4205	3000	170	2500	1600	710	507	1364	1200	7375	1647

## NHC type 315 – 630 Cyclone

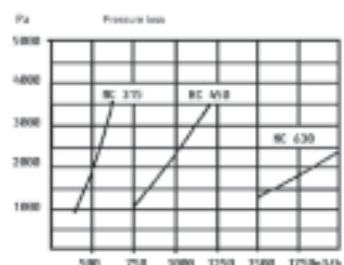
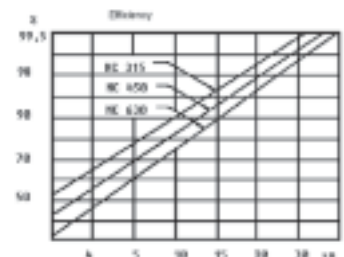


All dimensions in mm.

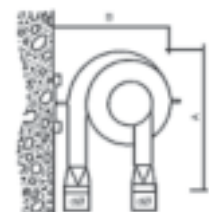
Type	C1	L1	C2	L2
315	189	252	58	63
450	270	360	80	90
630	378	500	115	125

The cyclone is a separator that uses centrifugal force to clean air that contains chips or dust. The filtration efficiency depends on the speed of rotation of the particles, their density and size. Dust cyclones of type NHC 315 – 630 are normally used for point extraction systems with small volumes of extracted air (500 – 2000 m³/hr). The cyclones are used where there are no specific restrictions on dust content in the air and where the humidity of the dust is low. The dust cyclones are also suitable for removing dust from grinding paint, metal etc.

- Design:** Max. temperature 75 °C with standard paint.  
Supplied with dust container as standard.
- Finish:** NHC315 and NHC 450 made of galvanized steel sheet, NHC 630 finished in RAL 5009.
- Accessories:** Wall stand.



Type	Ø D mm	A mm	B mm	H mm	d Ø mm	Weight kg	Ref. no. Cyclone, right	Ref. no. Cyclone, left	Ref. no. wall mounting
NHC 315	315	500	500	1550	100	15	47100.315	47101.315	47190.315
NHC 450	450	600	650	2100	125	20	47100.450	47101.450	47190.450
NHC 630	630	700	750	2700	160	50	47100.630	47101.630	47190.630





# NRSZ 10-Q Rotary valve with ATEX certificate St1

## • Design

The NRSZ 10-Q is a rotary valve made of strong steel sheet.

- The rotor has special rubber seals to give an effective air lock between inlet and outlet. The rotary valve shall be stopped if there is an explosion

## • Accessories

Speed sensor IP 67 18401.330.

### Specifications


Max. working temperature	50° C
Special rubber up to	80° C
Max. ambient temp.	50° C
Max. RPM	22

The NRSZ 10-Q is a rotary valve used for large volumes of material. It is used to transfer material between two separate systems, e.g. between filter or cyclone and silo or container, at atmospheric pressure. The rotary valve can be used for most types of material, but the particle size must not exceed 13 x 13 x 13 mm. Max. material temp. 50° C (optional 80° C). Explosive dust may have a Kst value up to 200 bar m/s (St1).

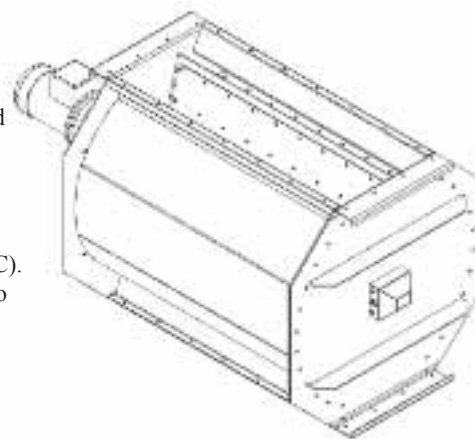
The NRSZ 10-Q is a protective system as defined under ATEX. Explosion pressure must be less than 25 kPa.

## Labelling

NRSZ 10-Q design marked.

CE 1180  D St1 II 1/- D c 80 °C

Marking based on product certificate.



## When ordering, please state:

Type of rotary valve, voltage and frequency. Kst of dust and installation zone. For zone 21/22 also max. surface temperature.

Part no.	Type	Installation zone exterior of NRSZ	Capacity when 100% full	Motor kW	Weight, kg
74011.000	NRSZ 10-Q St1	Depends on motor	17.4 m³/h per RPM	None	290
74011.020	NRSZ 10-Q-19 St1 non-zone	Non-zone	330 m³/h at 19 RPM	1,1	330

- Maximum working temperature 50 °C.

## Finish

- RAL 5009 blue.
- Special rubber up to 80 °C.
- Installation zone 22 (gear motor for zone 22).
- Installation zone 21 (gear motor for zone 21).

## Accessories

- Speed sensor IP 67.

NRS rotary valves are powerful designs for continuous operation. Used to transfer material between two separate systems. The pneumatic transfer system for emptying the device is usually needed between the filter or cyclone and the silo, at atmospheric pressure. This is an ideal application for NRS rotary valves. The rotary valve can be used for most types of material, but the particle size must not exceed 13 x 13 x 13 mm. The NRS type rotary valve is a modular and robust design in heavy steel sheet. The rotor for each module is fitted with an elastic coupling. This reduces the risk of damage in use and maximizes the service life of the unit.

The rotor has special rubber seals to give an effective air lock between inlet and outlet. This type of rotary valve is also available in an ATEX-certified version NRSZ for explosive dust types St1 and St2. The NRSZ is a protective system in accordance with ATEX provisions.

## Benefits

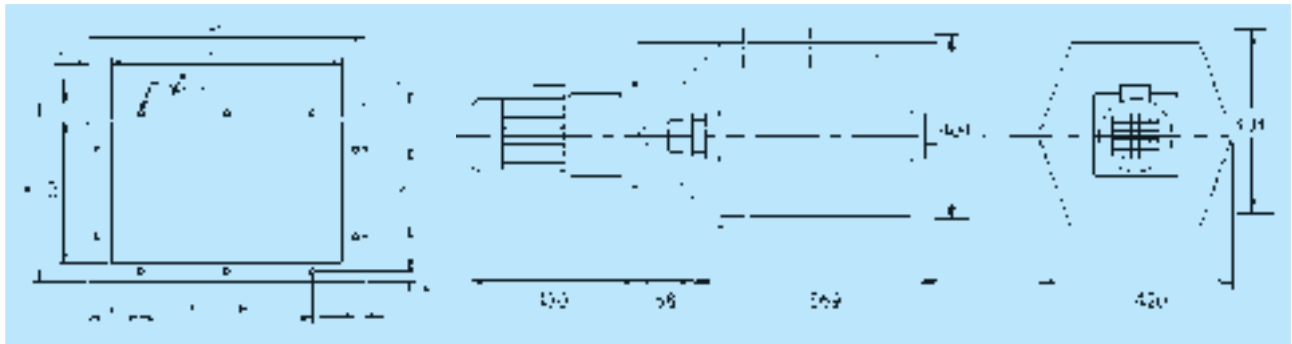
- Available in different lengths and capacities.
- The rotary valve has a high capacity and the flexibility of the blades limits the risk of blockage.
- Simple design and familiar durability.



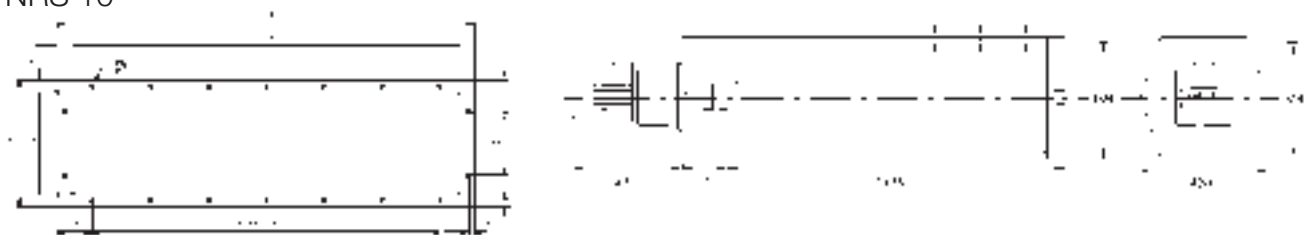
Type	Part no.	Capacity when 100% full	Motor kW	Weight, kg
NRS.4	70004.006	66 m³/h	0,75	67
NRS.10	70010.006	165 m³/h	0,75	100
NRS.20	70020.006	330 m³/h	0,75	170
NRS.30	70030.006	496 m³/h	0,75	240

# Rotary valve

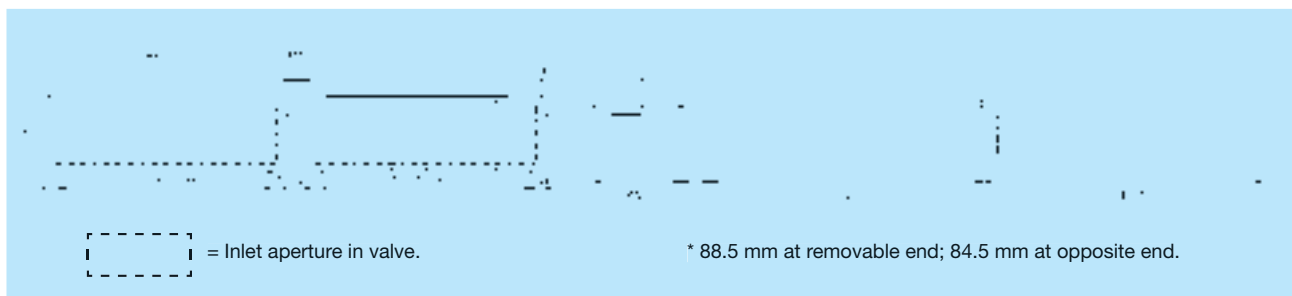
NRS 4



NRS 10



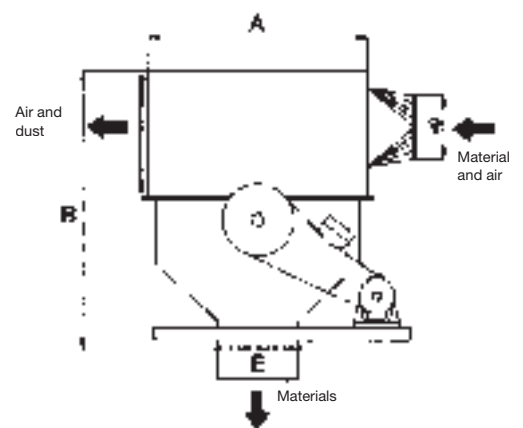
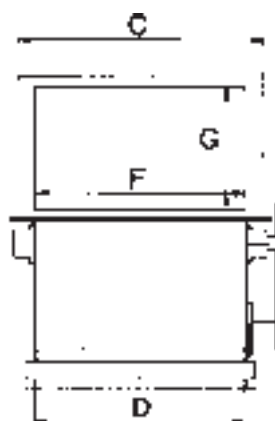
NRS 20



## Separators

### NFV separator

For separating shredded paper or plastic material. The separator works as an overpressure or a vacuum system. Often positioned after a cutter or fan that shred the material. Also available in ATEX version (NFVZ).



Type	Part no.	Air volume m <sup>3</sup> /h	Motor kW	Dimensions in mm						Weight, kg
				A	B	C	D x E	F x G	ØD	
NFV-7	70307.000	7000	1,5	1080	1380	1080	920 x 385	920 x 530	315QF	510
NFV-12	70312.000	12000	2,2	1400	1760	1400	1200 x 500	1200 x 700	400QF	740
NFV-20	70320.000	20000	4,0	1800	2345	1800	1550 x 650	1550 x 910	500QF	1250

# Rotary valve

## Specifications

- When ordering, please indicate:  
Type of rotary valve, voltage and frequency of power supply, Kst of dust and installation zone. For zone 21/22 also max. outside temperature.

## Accessories

- Speed sensor IP67 399012.065  
NRSZ body marked:  
CE 1180 (Ex) II D St 2 80 °C or better.  
Marking based on product certification under N.B. No. 1026 and quality system approval under N.B. No 1180.



ATEX (Ex) II D St2 certified equipment

The NRS type rotary valve is a modular and robust design in heavy steel sheet. The rotors for each module are fitted with an elastic coupling. This reduces the risk of damage in use and maximizes the service life of the unit. The rotor has special rubber seals to give an effective air lock between inlet and outlet. The NRSZ is available in different lengths and RPM/capacities. The NRSZ is a protective system as defined under ATEX.

## NRSZ rotary valve with ATEX St2 certification



Max. working temperature with standard rotor, rubber:	50 °C.
Special rubber up to 80 °C	on request

Type	Part no.	Installation zone exterior of NRSZ	Capacity when 100% full	Motor RPM/kW	Weight kg
NRSZ 4-0 St1-2	74004.000	Depends on motor	2.5 m³/h per RPM	excl. motor	50
NRSZ 4-7 St1-2 non-zone	74004.007	Non-zone	17 m³/h	7/0,18	75
NRSZ 4-32 St1-2 non-zone	74004.032	Non-zone	80 m³/h	32/0,75	69
NRSZ 10-0 St1-2	74010.000	Depends on motor	6 m³/hr per RPM	excl. motor	95
NRSZ 10-7 St1-2 non-zone	74010.007	Non-zone	40 m³/h	7/0,18	130
NRSZ 10-20 St1-2 non-zone	74110.020	Non-zone	110 m³/h	19/0,75	135
NRSZ 20-20 St1-2 non-zone	74120.020	Non-zone	220 m³/h	19/0,75	243
NRSZ 30-20 St1-2 non-zone	74130.020	Non-zone	330 m³/h	19/0,75	338

Type	Part no.	Installation zone exterior of NRSZ	Capacity when 100% full	Motor RPM/kW	Motor ATEX marking*	Weight kg
NRSZ 4-7 St1-2 Cat 2	74004.207	Zone 21 or 22	17 m³/h	7/0,18	EX II 2DT4	75
NRSZ 4-32 St1-2 Cat 2	74004.232	Zone 21 or 22	80 m³/h	32/0,75	EX II 2DT4	69
NRSZ 10-7 St1-2 Cat 2	74010.207	Zone 21 or 22	40 m³/h	7/0,18	EX II 2DT4	130
NRSZ 10-20 St1-2 Cat 2	74010.232	Zone 21 or 22	110 m³/h	19/0,75	EX II 2DT4	135
NRSZ 20-20 St1-2 Cat 2	74020.232	Zone 21 or 22	220 m³/h	19/0,75	EX II 2DT4	243
NRSZ 30-20 St1-2 Cat 2	74030.232	Zone 21 or 22	330 m³/h	19/0,75	EX II 2DT4	338

\*T4: Max. surface temperature 135 °C.

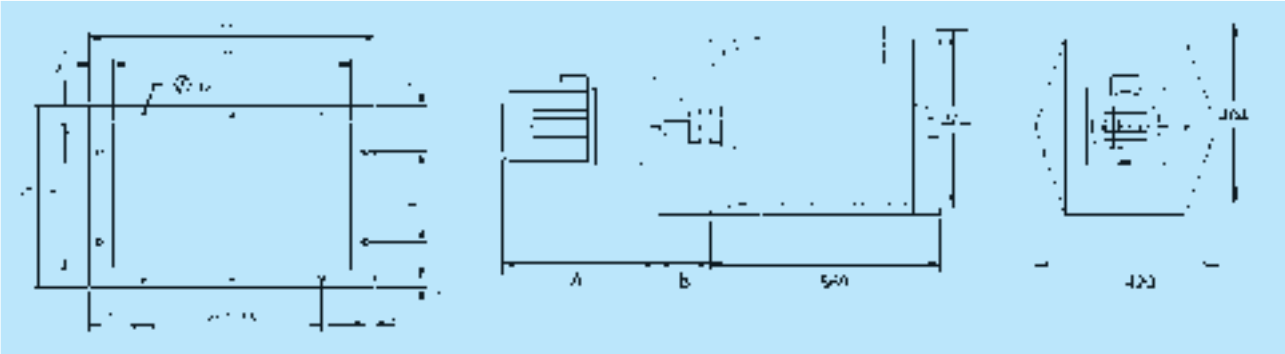
Type	Part no.	Installation zone exterior of NRSZ	Capacity when 100% full	Motor RPM/kW	Motor ATEX marking*	Weight kg
NRSZ 4-7 St1-2 Cat 3	74004.307	Zone 22	17 m³/h	7/0,18	EX II 3DT4	75
NRSZ 4-32 St1-2 Cat 3	74004.332	Zone 22	80 m³/h	32/0,75	EX II 3DT4	69
NRSZ 10-7 St1-2 Cat 3	74010.307	Zone 22	40 m³/h	7/0,18	EX II 3DT4	130
NRSZ 10-20 St1-2 Cat 3	74010.332	Zone 22	110 m³/h	19/0,75	EX II 3DT4	135
NRSZ 20-20 St1-2 Cat 3	74020.332	Zone 22	220 m³/h	19/0,75	EX II 3DT4	243
NRSZ 30-20 St1-2 Cat 3	74030.332	Zone 22	330 m³/h	19/0,75	EX II 3DT4	338

\*T4: Max. surface temperature 135 °C.

# Rotary valve

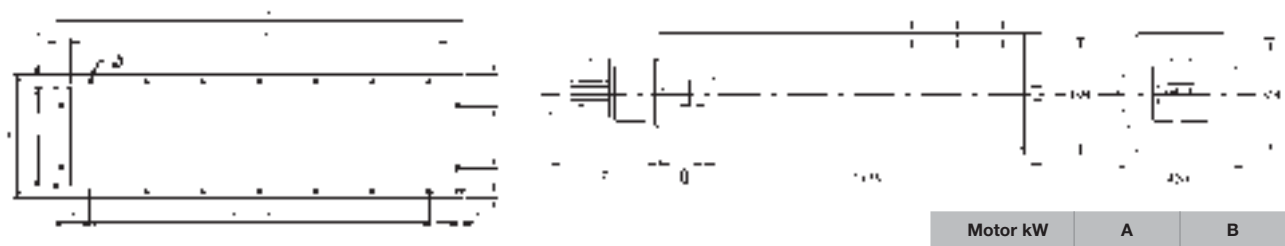


NRSZ4



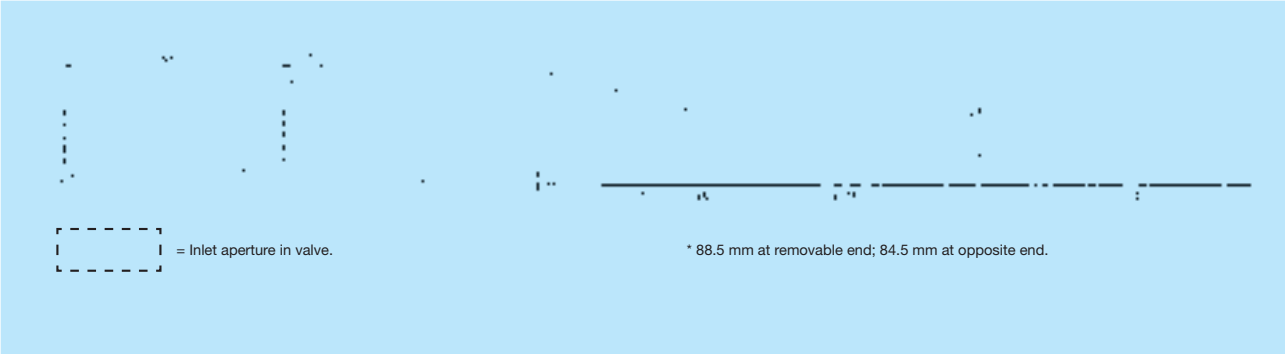
Motor kW	A	B
0,18	651	115
0,75	430	68

NRSZ10

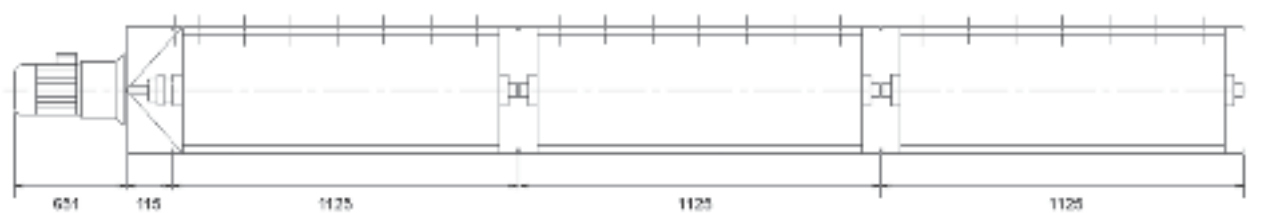


Motor kW	A	B
0,18	651	115
0,75	430	68

NRSZ20



NRSZ30



All dimensions in mm.



# Rotary valve

The FMK filters seen here are suitable for collection of many fine dusts including metal grinding, welding fume and most powders.



## NRS3, NRSZ3 rotary valve for FMC and FMK filters

Made of hard-wearing galvanised steel sheet. It is fitted with a 9-blade rotor with strong rubber blades bolted to the steel profiles of the rotor shaft. Capacity 1.1 m³/hr when 100% full. Max. particle size 3 x 3 x 10 mm. Intended for use together with FMC and FMK filters.



ATEX (Ex) II D St2 certified equipment

### NRS3 rotary valve

NRS3	
Ref. NRS3	399012.000
Standard motor	0.18 kW, 3 x 230/400V, 50/60 Hz
Max. working temp.	75 °C.
Capacity when 100% full	1.1 m³/h
Weight	32 kg

### NRSZ3 rotary valve

NRSZ3	
Standard motor	0.18 kW, 3 x 230/400V, 50/60 Hz
Max. working temp. with standard rotor, rubber:	50 °C.
Special rubber up to 80 °C	on request
Capacity when 100% full	1.1 m³/h
Weight	32 kg

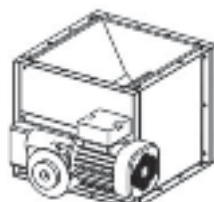
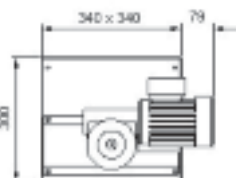
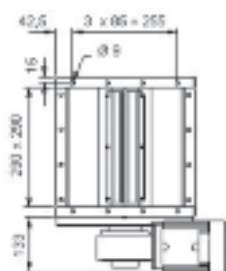
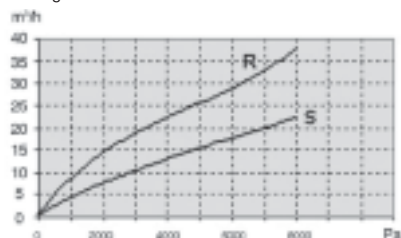
Accessories, NRS3	
Speed sensor IP 67 - ref. no.	399012.065

Accessories, NRSZ3	
Speed sensor IP 67 - ref. no.	399012.065

Type	Part no.	Installation zone exterior of NRSZ3	Motor ATEX marking*
NRSZ3 non-zone	399012.095	Non-zone	None
NRSZ3 Cat 2	399012.295	Zone 21 or 22	Ex II 2DT4
NRSZ3 Cat 3	399012.395	Zone 22	Ex II 3DT4

\*T4: Max. surface temperature 135 °C.

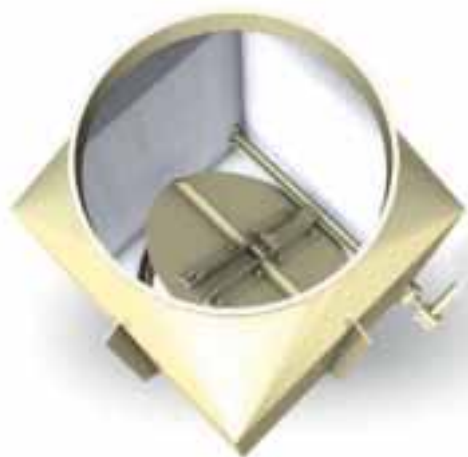
Leakage



For more information on replacement parts for rotary valves, please visit our website.

# Back-pressure flap

## CARZ back-pressure flap



ATEX (Ex) II D St1 certified equipment

A CARZ type back pressure flap valves is designed to prevent the effect of a pressure wave and flames caused by an explosion from returning along the pipework in which it is mounted.

It is effective up a maximum reduced explosion pressure in the protected space (typically ATEX zone 20, internal) and acts as an isolating valve during an explosion.

Under normal working conditions, it is kept open against the force of gravity by the dust-filled airflow going against the direction of the pressure wave.

### Benefits

- Prevents unwanted spreading effects in an explosion.
- Prevents stray dust from returning along the pipe when the installation has been stopped.
- Simple and robust design.

### Design

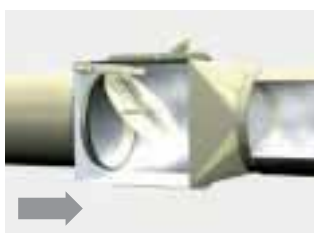
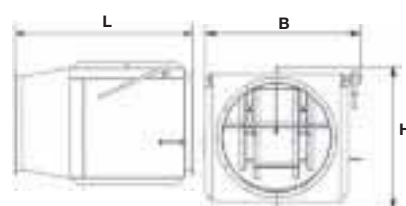
- The product is manufactured according to ATEX quality assurance standards for production.
- Available with flange or QF collar for connecting to different pipe systems.
- Suitable for transporting explosive dust of class St1.

### Finish

- RAL 5009 blue.

### Accessories

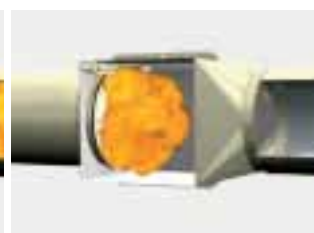
- Flange.



Direction of suction



Direction of explosion



### Installation requirements

The balancing rod is normally on the right-hand side.

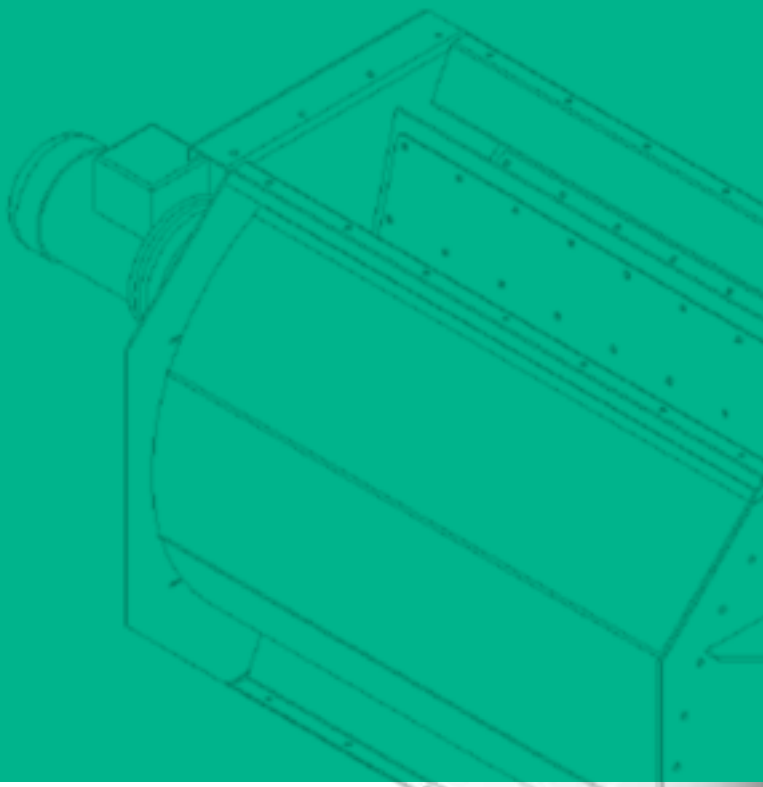
CARZ sizes from diameter 550 upwards include an inspection door on each side.

The distance between the CARZ and the filter / silo depends on installation type and size.

The CARZ shall be installed horizontally.

The direction of the airflow should be noted carefully. This is indicated by an arrow on the product.

Ø	Flange Part no.	QF Part no.	Length	Height	Width	QF	FL
						23060. xxx	23360. xxx
						Weight, kg	Weight, kg
160	23360.160	23060.160	488	315	425	13	14
180	23360.180	23060.180	510	335	445	16	17
200	23360.200	23060.200	528	355	465	19	20
250	23360.250	23060.250	578	405	515	20	21
315	23360.315	23060.315	643	470	580	27	29
350	23360.350	23060.350	780	505	615	33	35
400	23360.400	23060.400	728	555	665	42	44
450	23360.450	23060.450	778	590	715	45	48
500	23360.500	23060.500	830	655	765	49	52
560	23360.560	23060.560	1068	740	815	80	83
630	23360.630	23060.630	1138	810	885	100	104
710	23360.710	23060.710	1218	890	965	117	121
800	23360.800	23060.800	1308	980	1055	-	140
900	23360.900	23060.900	1408	1080	1155	-	160
1000	23360.970	23060.970	1508	1180	1255	-	180



## Recycling of coolants, managing waste material and removing oil mist.

The Nederman Machining concept has been developed to provide metalworking companies with products and systems that cover their current and future needs.

We are one of the leading companies in the world to take an overall grasp of the problems seen in the metalworking industry. Metalworking companies using highly productive machinery with high cutting speeds requires large flows of coolant, and also produces a lot of swarf. This work also generates oil mist which is a health risk to employees and a burden on the environment. These problems are solved by using effective coolant filtering, swarf management and air filtration systems.

- Clean air
- Clean Coolant
- Clean machines
- Profitable recovery

## MACHINING

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# Metal chip crushers

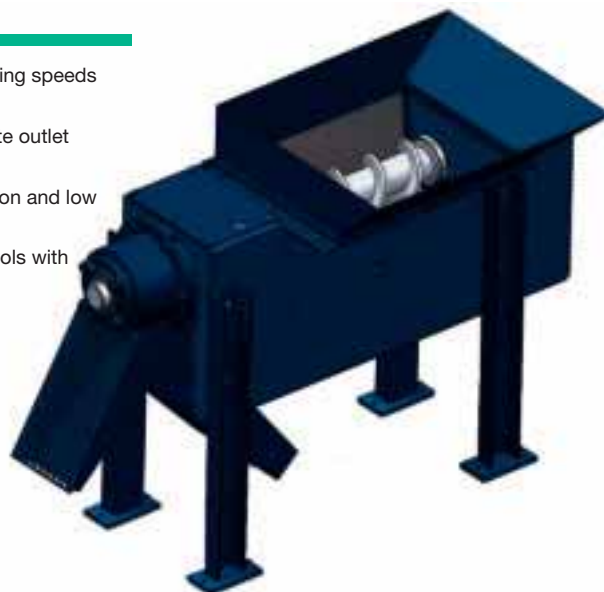
## KB3

The Nederman metal chip crusher KB3 accepts and crushes long swarf at a low rotating speed to small chips at a continuous rate.

The crusher is well suited for installation adjacent to the machine tool or in small chip processing systems.

The crusher is fed with chips in the inlet box. The chips are then dragged into the screw, where they are partly broken against the longitudinal "break edge". When the chips are fed into the inlet they are forced against a rotating "cutting tool" which cuts them up against a fixed tool.

- Low wear due to low crushing speeds and few moving parts.
- Rejects bar ends in separate outlet (optional).
- Very low energy consumption and low maintenance costs.
- Easy replaceable cutting tools with reversible edges.



## Vertical swarf crusher KB

Nederman KB 10-49 crushers crush and break bushy swarf in the swarf hopper. The crushers can accept large quantities and then reduce the swarf to an even flow of chips. This makes the crushers ideal for installation in a swarf handling system. The crusher is used in industries where the amount of swarf is an issue and before long swarf should be extracted, centrifuged or briquetted. An integrated bar end rejecter ensures high functionality and efficiency of the system.

- Very low operating costs.
- Versatile loading.
- Low noise level.
- Carbon steel.
- Stainless steel.
- Other alloyed steel with tensile strength up to 1200 N/mm<sup>2</sup> or higher.
- Aluminium alloys.
- Sponge iron.
- Titanium.



Model	Motor power	Continuous capacity*		Height mm	Weight kg	Space requirements mm	Part no.
		Steel and brass chips	Aluminium chips				
KB 3	2.2 kW	100 kg/h	40 kg/h	1150	150	1350 x 500	76350741
KB 10	7.5 kW	400-700 kg/h	150-250 kg/h	1200	800	1250 x 900	76351741
KB 20	15 kW	800-1000 kg/h	250-350 kg/h	1915	1150	1425 x 1000	76352741
KB 30	37 kW	2000-5000 kg/h	700 -1650 kg/h	3060	4500	1740 x 1520	76354741
KB 49	45 kW	5000-8000 kg/h	1650-2650 kg/h	2980	6500	2700 x 2200**	76355741

\* Estimated. The capacity depends on specific weight, size and shape of the chips. \*\* Without hydraulic unit.



# Vertical swarf centrifuge VD 40

## For drying and conveying metal swarf

The centrifuge VD40 is a compact-sized wringer that recovers coolant by centrifuging wet metal chips, while at the same time conveying the dried chips by blowing them to a distant bin.

In one step it will both dry and convey swarf and collect the recovered coolant in a tank.



- Very compact and robust with a minimum of floor space requirement.
- The blowing action eliminates the need for an output chip conveyor.
- The chips are continuously removed from the machining area keeping the working area clean. Ideal for high speed chip removal at machining centres and similar high productive machines.
- The compact and solid design in combination with vibrations mounts, makes the wringer silent in operation.

# Horizontal swarf centrifuge HD

## For recovery of coolant and chips

The horizontal centrifuge type HD represents a completely unique idea in swarf processing. The coolant and the chips are centrifuged in a horizontally suspended drum where the coolant is separated by means of a wedge bar screen. The centrifuge is entirely emptied of dry chips and coolant – even after it has been switched off.

The centrifuge is ideally suited for installation in a continuously working swarf processing system and works without any manual service. It handles any type of swarf shorter than 30 mm.



- Highest G-force of the existing chip centrifuges on the market and, consequently, also highest separation of coolant and chips.
- The horizontal design will mean low operation and maintenance costs. All the components are easily accessible. Cleaning of the drum will take about 5-6 minutes, compared with other centrifuges, about 3-4 hours.
- Automatic emptying of the centrifuge after each working cycle allows easy cleaning and multiple materials to be processed in batch.

Model	Capacity	Motor	Height mm	Space requirements mm	Part no.
VD 40	1-300 kg/h	4 kW	1350*	700 x 850	76360841
HD 50	3-600 kg/h	4 kW	1500	1300 x 1500	76361841
HD 82	1-2000 kg/h	11 kW	2400	1100 x 1900	76362841
HD 100	3-5000 kg/h	18 kW	2910	1650 x 2330	76364841

\* Including 400 mm stand.

## Tramp oil separator HM

For separating tramp oils from coolants

The Nederman tramp oil Separators have been designed to both effectively and economically remove harmful tramp oils resulting in both the extension of the fluid life and a reduction in the problems normally associated with tramp oil contamination.

- Prolongs useful life of machining and washing fluids.
- Greatly reduces hazardous waste.
- Operates in a wide temperature range.

Model	Height	Width	Breadth	Capacity l/h	Recommended tank size	Article no
HM 0.5	1025	510	280	135	1100	76245340
HM 1	1350	725	350	300	2300	76245940
HM 2	1350	875	510	600	4500	76246540
HM 4	1635	1150	600	1200	9100	76247140



Primary chamber (Gravity settlement).

## Conveyors for metal chip and scrap

### Drag conveyors TRS2 and TS3

The Nederman drag conveyors are suited for elevation and transportation of short swarf, less than 5 cm long (2 inches) and grinding sludge.

- Carry-over problems are minimised.
- Easy maintenance.
- Multiple discharge points are possible.



Model	Chain pitch "	Scraper height mm	Wear plates - Hardox	Part no.
TRS2	63,5	40	Y	N/A
TS3	76,2	80	Y	N/A



### Magnetic conveyor TM

The magnetic conveyor TM conveys fine ferrous swarf and particles with a minimum of maintenance, while separating the particles from coolant.

Suitable for fine ferrous swarf and particles, such as short steel and cast iron chips.

- Low maintenance as the swarf or parts is conveyed on the upper side of the stainless sheet and is not in contact with the chains.
- Safe as all moving parts are totally enclosed.

# Conveyors for metal chip and scrap

## TL2M, TL4 and TL6

The Nederman hinge steel belt Conveyors are designed for maximal lifetime and minimal service requirements.

The TL4 and TL6 type conveyors are suited for conveying of large quantities of long and bushy metal swarf as well as metal scrap.

- Flexible design to meet the most diverse installation layouts.
- Belt design with robotic welded plates for long life.
- Robust design of both belt and trough to with tough applications.

Model	Chain pitch mm	Belt thickness mm	Height side-wings mm	Height flights mm	Part no.
TL2 M	63.5	2.5	40	40	N/A
TL4	101.6	4.0	63.0	60.0	N/A
TL6	152.4	5.0	102.0	100.0	N/A

**Model TL2M (2" pitch):** Long or short swarf or metal scrap for larger quantities of swarf (~1000 kg /h).

**Model TL4 (4" pitch):** Long or short swarf or metal scrap for larger quantities of swarf (1000-3000 kg /h).

**Model TL6 (6" pitch):** Long or short swarf or heavy metal scrap for very large quantities of swarf (> 3000 kg /h).



## Guideline when choosing conveyor type

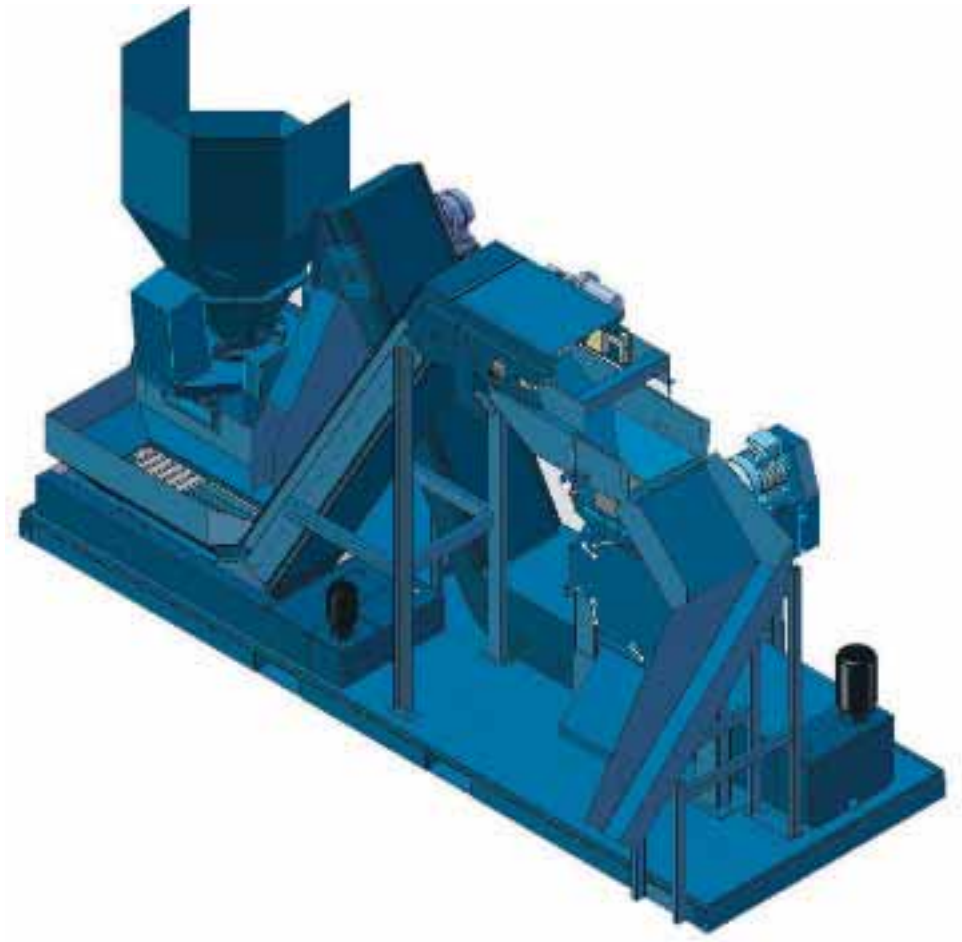
Type of scrap	Coolant volume	Straight-line primarily horizontal	Combined straight & incline			Multi-direction path
		Screw conveyor	Steel belt conveyor	Drag conveyor	Magnetic conveyor	Vacuum transportation
Die casting	-		●			
	-					
Bushy steel	Low		●			
	High		●			
Broken steel	Low	●	●	●	●	●
	High		●	●	●	●
Bushy aluminium	Low		●			●
	High		●			
Broken aluminium	Low	●	●	●		●
	High		●	●		●
Bushy Brass	Low		●			
	High		●			
Fine Brass	Low	●		●		●
	High			●		●
Cast Iron	Low	●		●	●	●
	High			●	●	●
Stampings	Dry		●		●	
	Sticky		●		●	

# Swarf handling systems

## Complete systems for crushing and de-oiling of swarf.

The systems are complete mounted on a skid ready to go. Depending on configuration the system will crush and/or de-oiling metal swarf to increase the value of the end product and enable reuse of the coolant.

All systems contain a bar end separator and HDT tank for collection and coarse cleaning of coolant liquid. Control system to run all functions including standard safety functions.



## Swarf handling systems

System	Crusher	Centrifuge	Capacity kg/h*	HDT tank	SB bar end separator	Controls	Part no.
SS 40	-	VD 40	300	Y	Y	Y	76200141
SS 50	-	HD 50	300 - 600	Y	Y	Y	76200241
SS 82	-	HD 82	100 - 2000	Y	Y	Y	76200341
SS 1040	KB 10	VD 40	100 - 300	Y	Y	Y	76200441
SS 1050	KB 10	HD 50	300 - 600	Y	Y	Y	76200541
SS 2050	KB 20	HD 50	300 - 600	Y	Y	Y	76200741
SS 2082	KB 20	HD 82	1000 - 2000	Y	Y	Y	76200941

\* Actual capacity depending on type of swarf, amount of bar ends etc.



# Metal chip briquetters



**A briquetter will reduce the volume of the material to enable savings in handling and transportation.**

The Nederman chip briquetter processes short, loose chips from machining of non-ferrous or ferrous metals and cast iron into cylindrical briquettes. The briquetter with closed dies are designed for ferrous metals and cast iron. It produces cylindrical briquettes, of a diameter from 60 to 80 mm and length up to 110 mm. With an inlet hopper, conveyor, sorting machine and material level sensor the press operation can be automated.

- Savings in factory floor-space.
- Savings in internal and external transportation costs.
- Savings in recycling costs.
- Increase the waste value.

## Briquetter BP for steel swarf

Briquetters Type	Floor area mm x mm *	Height	Weight kg	Capacity/h	Kw
BP100	1860 x 1070	1750	900	100	10
BP200	2500 x 1470	2350	3000	200	13
BP350	3000 x 1800	2800	4000	350	24
BP500	3000 x 1800	2800	4200	500	29
BP800	3600 x 2050	3300	5400	800	40

## Briquetter BCM for aluminium swarf

Briquetters Type	Floor area mm x mm *	Height	Weight kg	Capacity/h	Kw
BCM 50, 70 Hopper 1 m³	1980 x 1730	1700	1300	30-60	4
BCM 100, 150 Hopper 1 m³	1980 x 1730	1700	1300	50-80	5.5
BCM 50, 70 Hopper 3 m³	2140 x 2020	1740	1140	70-120	7.5
BCM 100, 150 Hopper 3 m³	2400 x 2290	2004	1010	110-170	11

\* Excluding service area

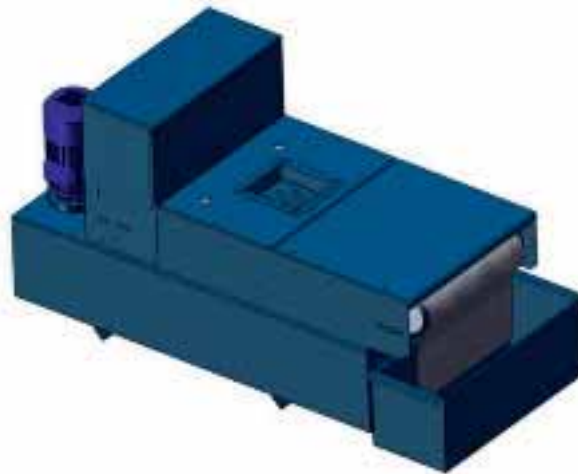
# Coolant Filtration

## Universal clarifier FB

The Nederman universal clarifier continuously removes solid particles from water based emulsions and other light viscosity liquids.

Reliably finished to the highest quality using two pack epoxy resin paints  
Standard designs available in mild steel or in stainless steel.

Suitable for milling, grinding, honing, metal rolling and component washing.



- Extends coolant and tool life.
- Simple Automatic operation.
- Low initial investment.
- Versatile.
- Self monitoring.

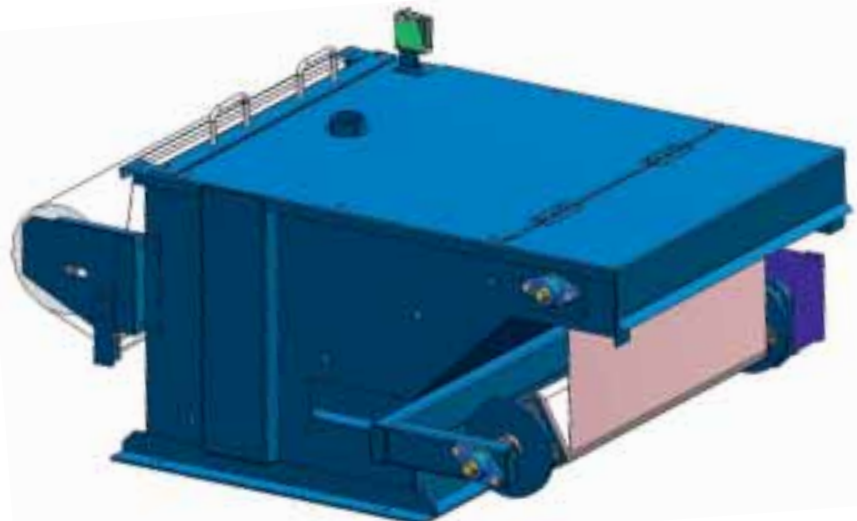
Model	FlowL/min*	Tank capacity Liter	Inlet height mm	Floor area mm x mm	Part no.
FB1010	35	100	401	1200x600	76226540
FB1020	70	140	408	1500x750	76228540
FB1030	100	265	449	1700x950	76232540
FB2040	140	330	449	2100x950	n/a
FB2050	200	470	430	1900X1150	n/a
FB2060	250	540	430	2100X1150	n/a
FB2070	300	610	430	2400X1150	n/a
FB3080	400	950	620	2500X1500	n/a
FB3090	500	1200	620	3000X1500	n/a
FB3100	600	2350	800	3700X1500	n/a
FB3110	750	2900	800	4400X1500	n/a
FB3120	1000	3850	800	5800X1500	n/a
FB3130	1250	4800	800	7200X1500	n/a
FB3140	1500	5700	800	8400X1500	n/a

\*) Flow rates may vary with the grade of media used and the type of coolant.

## Hydrostatic clarifier FHS

The Hydrostatic clarifier continuously removes solid particles from water-based emulsions and oils. The filter chamber is built as a wedge shape with the filter area running up the sloping edge, this makes the filter compact and space saving.

The Hydrostatic Clarifier is a versatile filter that handles flow rates between 100-600 lpm and filters down to 10 µ when a fine filter media is used.



- The filter has a very high capacity and filtration efficiency to the price.
- Minimum maintenance due to very few moving parts.
- Minimum floor area for higher flow rates.
- Automatic rewinding of contaminated media giving easy disposal.

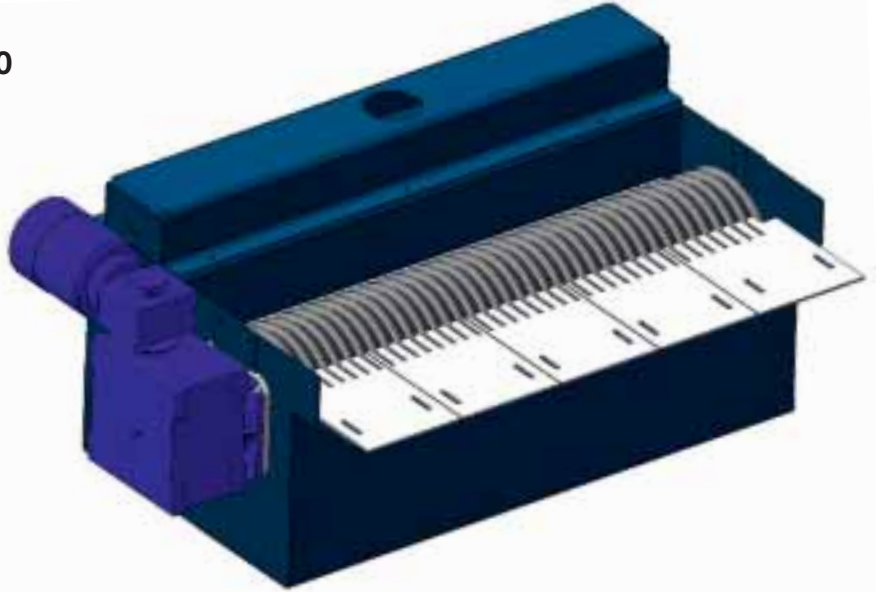
Model	Flow l/min*	Media l/min	A	B	C	D	E	F	Part no.
FHS100	100	500	1435	615	610	725	260	500	76235140
FHS200	200	711	1435	615	830	725	260	500	76237140
FHS400	400	1000	1660	740	1120	950	260	625	76239140
FHS600	600	1000	3096	1722	1120	1897	434	1526	76241140

All dimensions are approximate. \* In water based emulsion.

## Magnadrum clarifier FM1200

The magnadrum clarifier continuously removes magnetic particles from the flow of liquid and deposits them into a bin.

The system is ideal for production machine tools cutting and grinding ferrous materials and will cope with high rates of swarf production. The magnadrum clarifier is suitable for use with water based coolants and most neat oils.



- Automatic operation.
- Powerful magnets filter down to 30 - 40 mikron.
- Almost dry solid despatch.

Model	Flow rate l/m	Inlet height mm	Outlet height mm	Length mm	Part no.
1210	60	546	239	211	76233140
1220	110	576	269	343	76233340
1230	140	576	269	439	76233540
1260	250	609	305	782	76233640
1280	350	785	466	1000	76234540

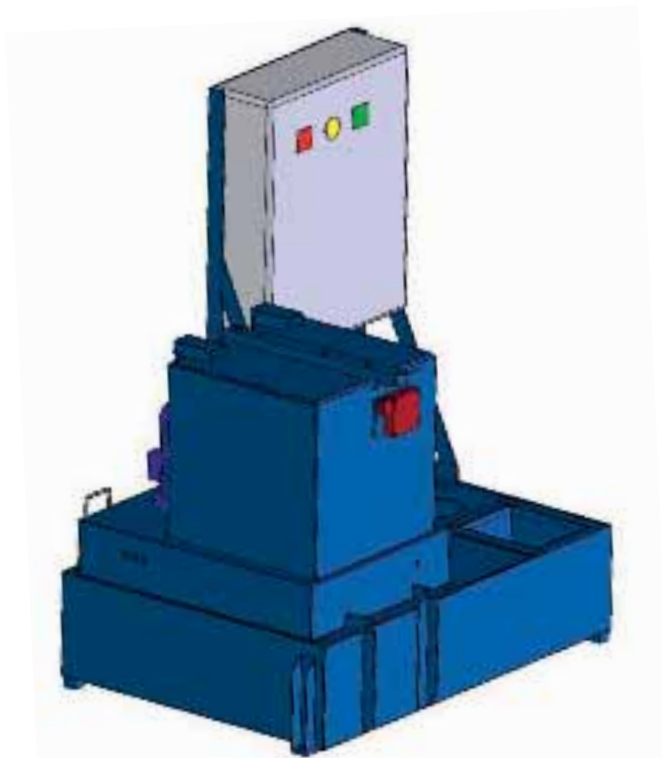
## Centrifuge clarifier

The cost effective, proven design of the centrifuge clarifier from Nederman extends tool life, extends coolant life and is suitable for continuous use with both emulsion and neat oil.

Suitable for grinding, honing, super-finishing and other fine finish applications. Unique triple bowl design.

12 litre dirt holding capacity.

Standard supplied complete with pumps and electrics.



- Cleans down to 5-10 microns.
- Handles a wide range of coolants.
- No media to dispose.
- Low investment and operating costs.
- Very reliable.

Model	Flow l/min	Tank capacity/l	Inlet height	Width mm	Length mm	Part. no
FC2200	100	300	330	900	1200	76250540

The FC 2200 Centrifuge clarifier can be combined with several centrifuge units into a system that handles capacities above 100 litres per minute.

# Coolant filtration systems

## Part flow systems

The Nederman part flow system is designed to increase the life-time of the coolant by continuously removing tramp oil, particles, and bacteria from it. The part flow system has been fieldproven to reduce the number of necessary coolant changes by more than 90%.

- Low maintenance through central coolant cleaning.
- Extended life-time of the coolant and reduced operating costs.
- Improved working environment around the machine.
- Improved external environment as coolant can be used significantly longer.



Part flow system	Flow rate lpm	Length mm	Width mm	Height mm	Tank size m <sup>3</sup>	Part no.
1 - 5 machines	100	2000	2000	1750	3.0	76230040
1 - 5 machines, Permanent media	100	2000	2000	1750	3.0	76230140
6 - 10 machines	200	3000	2000	1750	5.0	76230240
6 - 10 machines, Permanent media	200	3000	2000	1750	5.0	76230340
11 - 15 machines	300	4000	2000	1750	7.0	76230440
11- 15 machines, Permanent media	300	4000	2000	1750	7.0	76230540
16 - 20 machines	400	4000	2000	2000	9.0	76230640
16 - 20 machines, Permanent media	400	4000	2000	2000	9.0	76230740

## Full flow systems

The full flow systems are installed to connect through pipe-work to several machines in a work shop. Full flow means that all coolant is pumped continuously from tanks in the machine to the central filtering system where the coolant is processed and pumped back to the machines. The filter system can be based on different type of standard filters like Vacuum filter FV or FVC, back flushed cartridge filters or just a sedimentation tank with a magnetic – or paper filter, all depending on customer requirements.

One central filter system makes it easy to control the quality of the coolant for the whole factory.

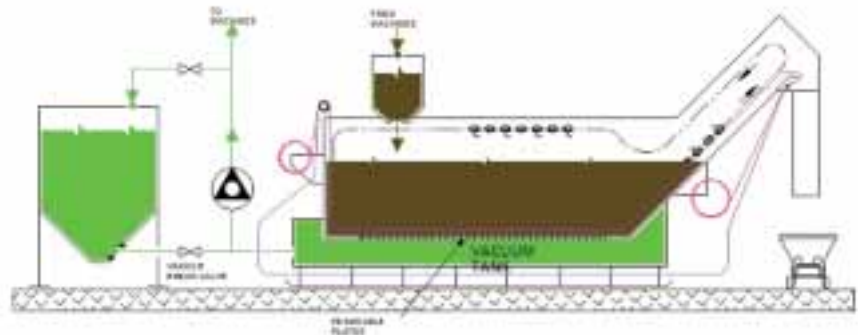




## Vacuum filter FV

The vacuum filter is a cost efficient and versatile filter for removing solid particles from metalworking fluids (emulsion or oil) or similar applications like parts washing. The filter may be equipped with disposable media and/or a permanent belt to reduce disposal cost.

Continuous operation is guaranteed by using a clean tank during the index cycle which is a fully automated action.

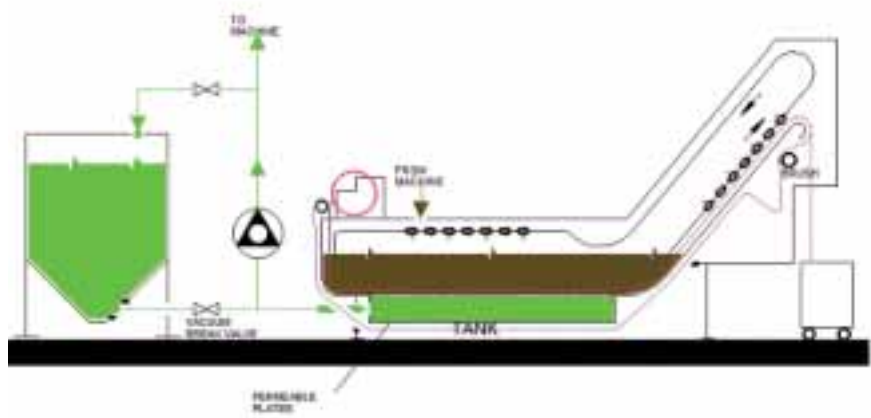


Model	Media Width	Filter Area	Typical Flow
FV-13	1300 mm	1.6-11.2 m <sup>2</sup>	1000-7500 l/min
FV-18	1840 mm	5.6-35.0 m <sup>2</sup>	3500-23000 l/min
FV-23	2280 mm	6.9-43.7 m <sup>2</sup>	4500-28000 l/min

- Low maintenance / low complexity.
- Low energy (filter pump is system pump).
- Low disposal costs (permanent belt media).
- High flow rates.
- Increased filtration quality.
- Small foot print.

## Vacuum filter FVC

The compact vacuum filter FVC is a cost efficient and versatile filter for removing solid particles from metalworking fluids (emulsion or oil) or similar applications like parts washing. The filter may be equipped with disposable media and/or a permanent belt to reduce disposal cost. The main features of this filter type are:



Model	Filter Area m <sup>2</sup>	Typ Flow*	Volume m <sup>3</sup>	Length mm	Width mm	Height mm
FVC-0707	0.71	460	290	2720	1105	1400
FVC-0711	1.06	690	400	3320	1105	1400
FVC-1011	1.07	698	405	2720	1410	1400
FVC-1016	1.61	1047	580	3320	1410	1400
FVC-1022	2,15	1396	740	3920	1410	1400
FVC-1027	2,69	1745	915	4520	1410	1400
FVC-1032	3,22	2094	1072	5120	1410	1400

- Low maintenance / low complexity.
- Low energy (filter pump is system pump).
- Low disposal costs (permanent belt media).
- High flow rates.
- Increased filtration quality.
- Small foot print.

# Accessories



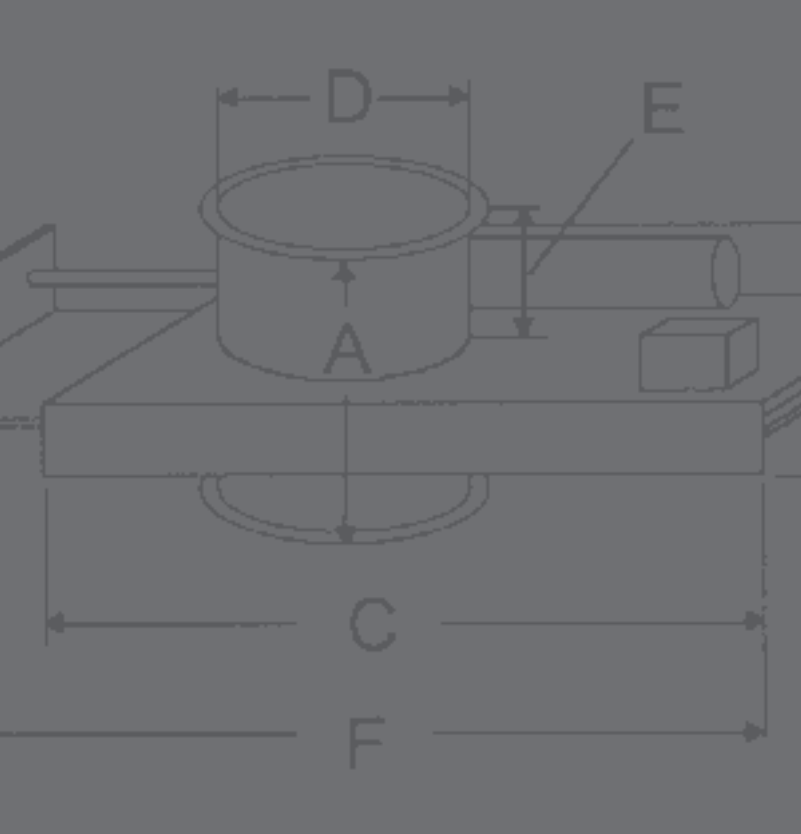
## Filter media

For product	Filtration grade	Width mm	Length m	Part no.
FB 1010	Medium	368	120	76202040
FB 1010	Fine	368	85	76204040
FB 1010	Extra fine	368	60	76206040
FB 1020	Coarse	480	355	76200140
FB 1020	Medium	480	260	76202140
FB 1020	Fine	480	190	76204140
FB 1020	Extra fine	480	135	76206140
FB 1030/ FB 1040	Coarse	711	465	76200240
FB 1030/ FB 1040	Medium	711	340	76202340
FB 1030/ FB 1040	Fine	711	245	76204340
FB 1030/ FB 1040	Extra fine	711	170	76206340
FHS 100	Medium	500	100	76210740
FHS 200	Medium	711	100	76210940
FHS 200	Fine	711	100	76208140
FHS 400 FHS 600	Medium	711	100	76210640
FHS 400 FHS 600	Fine	711	100	76210240

We supply standard filter media from stock, special qualities and measurements on request.

## Vacuum Transportation

Thick pipeworks for Alu and Steel.	Part no.
Pipe, diameter 76 mm x 3,6 mm L=6 m.	76390141
Pipe, diameter 100 mm x 3,6 mm L=6 m.	76390041
Re-enforced 90 dgr wide radius bend and branch couplers.	Part no.
Re-enforced 90 dgr bend, 76 mm diameter.	76390341
Re-enforced 90 dgr bend, 100 mm diameter.	76390241
Re-enforced Branch Pipes 100/76 90 dgr.	76390441
Re-enforced Branch Pipes 100/100 90 dgr.	76390541
Used in combination with a suction funnel for building eg Vacuum Station TZ 79.	Part no.
Knife gate valve MV Size DN 100.	76390641
A receiving hopper for Vacuum Station TZ 79.	Part no.
TZ 79 Suction Funnel.	76390741
For controlling the TZ 79 Vacuum Station.	Part no.
Control Cabinet TZ 79 (400V, 50Hz, 3Ph).	76390841
Used in combination with a suction funnel for building eg. Vacuum Station TZ 80 and TZ 81.	Part no.
Knife gate valve MV Size DN 80.	76390941
For feeding the vacuum system without clogging the pipework.	Part no.
TZ 80 Sluice w screw (400V, 50Hz, 3Ph).	76391041
For controlling the TZ 80 Screw type Vacuum Station.	Part no.
Control Cabinet TZ 80 (400V, 50Hz, 3Ph).	76391141
For controlling the TZ 81 Vacuum Station with KB3 Crusher.	Part no.
Control Cabinet TZ 81 (400V, 50Hz, 3Ph).	76391241



## Dampers for airflow control reduce both cost and noise.

Dampers are used in process ventilation systems for air and energy regulation. Vacuum and airflow adjusted to optimum requirements produces great savings of both money and energy. Another benefit is the reduced noise – when the damper is closed, the process stops and the noise diminished.

Nederman has produced and sold thousands of automatic dampers. They have opened and closed millions of times with the same precision and durability. We have a wide range of accessories and a number of different types of damper.

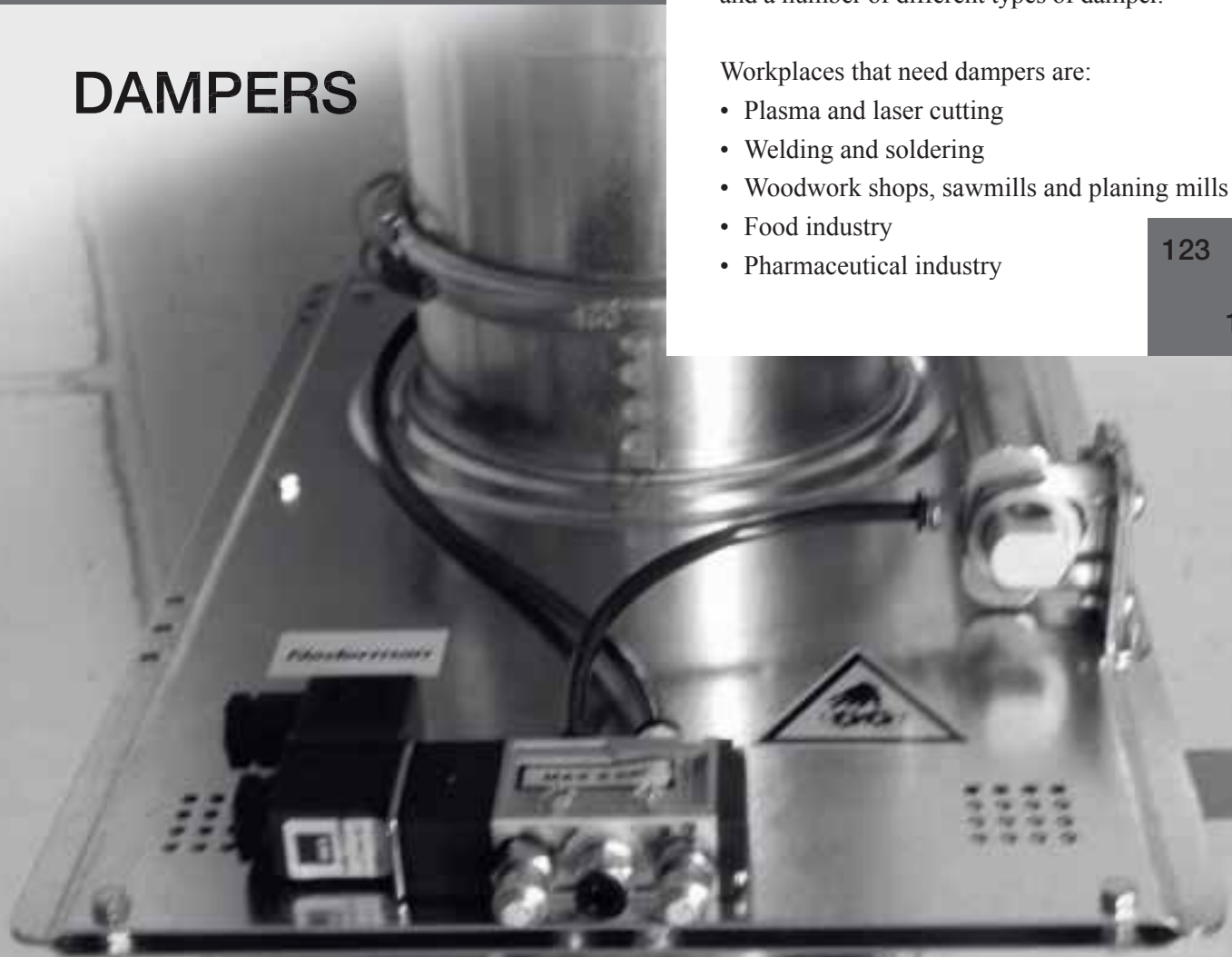
Workplaces that need dampers are:

- Plasma and laser cutting
- Welding and soldering
- Woodwork shops, sawmills and planing mills
- Food industry
- Pharmaceutical industry

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## DAMPERS



# SBAS Automatic damper



QF.



Single edge.



Straight edge.

The SBAS automatic damper is a pneumatic guillotine damper for fast and airtight closing of pipe systems or machine connections. Because the damper can be opened and closed automatically, the suction is always concentrated on the connections, extraction points or machines in operation at the time. The maximises the force of extraction and so gives more economical operation.

SBAS made with QF edge/single edge. Straight edge – see table below. FL flanged edge optional.

- The damper requires a clean and dry compressed air supply.
- Working pressure 6-8 bar.
- Connection, Ø 6/4 mm.
- Voltage 230V AC.
- Max. temperature 75 °C.

## Accessories

- Protection guard – 28001.xxxx1.
- End stop switches – 28010.000010.
- Time delay for closure, with interval from 0 – 30 sec. (pneumatically integrated).
- Prepared for ATEX.

## SBAS straight edge

050, 063, 108

## SBAS QF edge/single

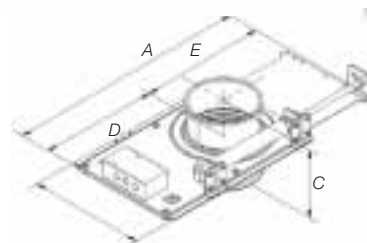
080, 100, 125, 140, 150, 160, 200, 224, 250, 300, 315, 350, 400



SBAS automatic damper.



Micro-switch.

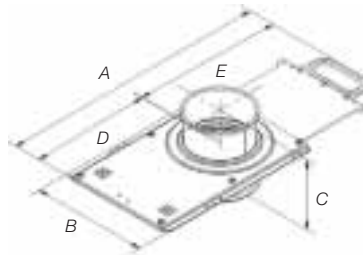


1 pcs. Pneumatic cylinders	Ø 50	Ø 63	Ø 80	Ø 100	Ø 108	Ø 125	Ø 140	Ø 150	Ø 160	Ø 180	Ø 200	Ø 224
A	327	340	397	467	475	522	577	587	637	697	757	841
B	167	180	197	217	225	242	257	267	277	297	317	341
C	145	145	133	133	145	133	133	133	133	133	133	133
D	150	157	185	220	224	248	275	280	305	335	365	407
E	177	183	212	247	251	274	302	307	332	362	392	434
Part no. QF/single edge (pre-assembled)			29010. 0080	29010. 0100		29010. 0125	29010. 0140	29010. 0150	29010. 0160	29010. 0180	29010. 0200	29010. 0224
Part no. straight edge (pre-assembled)	29310. 0050	29310. 0063			29310. 0108							
Weight, kg	3,5	3,5	4	4	4,5	4,5	5,5	6	6	6,5	7,5	8

2 pcs. Pneumatic cylinders	Ø 250	Ø 300	Ø 315	Ø 350	Ø 400
A	907	1057	1102	1237	1387
B	367	417	432	467	517
C	133	133	133	133	133
D	440	515	538	605	680
E	467	542	564	632	707
Part no. QF/single edge (pre-assembled)	29010.0250	29010.0300	29010.0315	29010.0350	29010.0400
Weight, kg	9,5	12	12,5	14	16,5



# SBMS Manual damper



## SBMS QF/Single edge

080, 0100, 0125, 0140, 0150, 0160, 0180, 0200, 0224, 0250, 0300, 0315, 0350, 0400

## SBMS straight edge

0050, 0063, 0108

	Ø 50	Ø 63	Ø 80	Ø 100	Ø 108	Ø 125	Ø 140	Ø 150	Ø 160	Ø 180	Ø 200	Ø 224	Ø 250	Ø 300	Ø 315	Ø 350	Ø 400
<b>A</b>	369	382	439	509	517	564	619	629	679	739	799	883	949	1099	1144	1279	1429
<b>B</b>	167	180	197	217	225	242	257	267	277	297	317	341	367	417	432	467	517
<b>C</b>	145	145	133	133	145	133	133	133	133	133	133	133	133	133	133	133	133
<b>D</b>	150	157	185	220	224	248	275	280	305	335	365	407	440	515	538	605	680
<b>E</b>	219	225	254	289	293	316	344	349	374	404	434	476	509	584	606	674	749
<b>Part no. QF/single edge</b>			28000.0080	28000.00100		28000.0125	28000.0140	28000.0150	28000.0160	28000.0180	28000.0200	28000.0224	28000.0250	28000.0300	28000.0315	28000.0350	28000.0400
<b>Part no. straight edge</b>	28300.0050	28300.0063			28300.0108												
<b>Weight, kg</b>	2,5	2,5	3	3	3,5	3,5	4	4	4,5	5	6	6,5	7,5	9,5	10	11,5	14

# NFES Automatic damper

- Delivered incl. 2 QF clamps or 2 flanges.
- The damper requires a clean and dry compressed air supply.
- Working pressure 6-8 bar.
- Connection, Ø 6 mm.
- Voltage 230V AC.

## Accessories

- Time delay for closure with interval 0 – 30 sec. (pneumatically integrated).
- Prepared for ATEX.
- Upgrade of SBMS to an automatic damper: Complete cylinder + valve 28010. xxxx5, protective guard: 28001.xxxx1.

2 pcs. Pneumatic cylinders	Ø 450	Ø 500	Ø 560	Ø 630	Ø 710*
<b>A</b>	1240	1340	1460	1730	1808
<b>B</b>	641	691	751	821	901
<b>C</b>	300	300	300	300	300
<b>D</b>	460	485	515	575	615
<b>Part no. QF</b>	23073.450	23073.500	23073.560	23073.630	23073.710
<b>Part no. FL</b>	23073.450	23073.500	23073.560	23073.630	23073.710
<b>Weight, kg</b>	40	45	54	68	88

\* Only 92% open when fully opened.

## NFES QF

450, 500, 560, 630, 710

## NFES FL

450, 500, 560, 630, 710



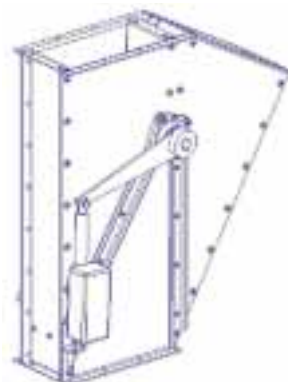
# Dampers Divided damper

## Divided damper

Order	Part no.
Automatic damper with 2 mm painted QF joints	23386.xxx
Automatic damper with 2 mm painted FL joints	23387.xxx
Automatic damper excl. joints	23384.150 23384.300 23384.400

xxx = ØD

Ø d	a	b
200	321	150
250	321	150
315	471	300
350	471	300
400	571	400
450	571	400



Position of damper blade: fully open or closed, never in the middle!

Galvanised damper with tight rubber packing.  
Fitted with 24 V linear electric motor for actuating the damper blade.  
Motor includes stop contacts.

## Motor dampers and transformers



The motor damper consists of a fan contactor and an operation box that can be controlled by a switch or contactor. The operation box consists of a 30 VA transformer for the lighting kit in the extraction arm, a delay timer for fan stop variable from 0-5 minutes, and two separate connections for sensor clamps. Single-phase power supply, 110/120-220/240V, 50/60Hz. The motor damper is available in two models: Manual, using a hood mounted switch set, or automatic, using a sensor clamp on the welding set, for automatic start of the fan and automatic control of the damper.

- Provides optimum airflow within a multiarm system.
- Reduces energy consumption and increases efficiency.
- Makes it possible to use a smaller fan and automatic start/stop.

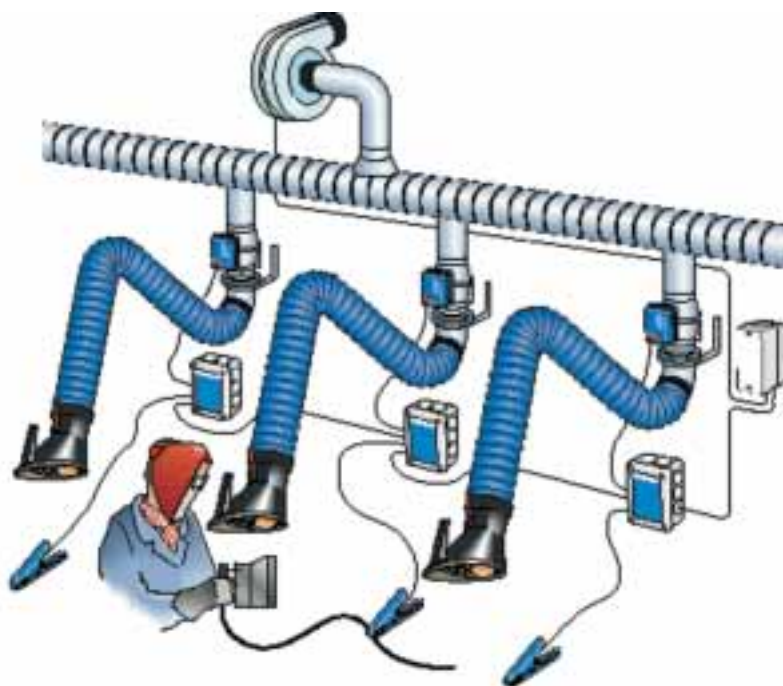
### Manual

Model	Ø, mm	Part no.
MDM 125	125	14500191
MDM 160	160	14500291
MDM 200	200	14500391

### Automatic

Model	Ø, mm	Part no.
MDA 125	125	14500491
MDA 160	160	14500591
MDA 200	200	14500691

Accessories	Part no.
Sensor clamp. One additional sensor clamp can be connected to the operation box. Used when two different welding machines are deployed in the same area.	14372199



## Transformers



1. Description	Input voltage, V	Input frequency, Hz	Input phases	Output	No. of lighting kits	Part no.
Power supply to spotlight kits, 24V	230/250	50/60	1	24V 35VA	1 x 20W	10363189

2. Description	Input voltage, V	Input frequency, Hz	Input phases	Output	No. of lighting kits	Part no.
Power supply to spotlight kits, 24V	230/250	50/60	1	24V 75VA	3 x 20W	10361560



## Pipes and pipe systems with great flexibility.

Our range of pipes and pipe systems covers two types: galvanised pipes and welded mild steel pipes. Both in thicknesses 2 mm and 3 mm. Our galvanised QF (quick-fit) system is one of the quickest pipe systems on the market to assemble. Now we are launching a new easy-to-use clamp that makes tools unnecessary.

For industrial ventilation, dust extraction and pneumatic transport, there are especially demanding requirements for high vacuum and hard wear. Then our mild steel pipe system is the obvious choice.

Optional pipe systems:

- Cortén steel sheet
- Stainless steel
- Other thicknesses

## PIPE SYSTEMS



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### Rolled edge

The QF pipe system is made of fully galvanised steel sheet and is distinguished by its stable shape and smooth surface. The components have a pressed smooth collar that the QF clamp is placed over. The QF clamp has internal packing to guarantee a tight joint. The pipe system can be branched and adapted without any tools. The QF pipe system includes a complete range of 60° Y-pipes, 30° branches, 30° plug-in pipes, joints, reducers, guillotine dampers, automatic dampers etc. This guarantees individual adjustment and great flexibility, along with the facility to match to other pipe systems.

- Easy to assemble - faster installation.
- Joined with clamps – components can be removed and re-used.
- Easy to connect to existing pipe systems.
- Components and joints to match all systems.
- Adjustable QF fit makes it easy to join pipes together.
- Smooth inside surface prevents blockages.
- Increased stability and roundness in all areas with QF edge.



			
QF pipe	QF adjustable nipple	QF clamp	QF bend
			
QF bend	QF branch	QF Y-branch	QF double branch
			
QF T-pipe	QF cut-in 30°	QF cut-in 90°	QF end piece
			
Inlet pipe with wire guard.	Suction hoods	QF reducers    QF reducers	Transitions



# QF pipe and clamp

## Instructions Installation



Measure the distance to be covered.



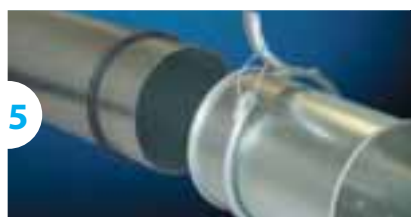
Note the distance to be covered, minus 100 mm.



Use the enclosed rubber ring and mark the cutting point.



Cut off pipe. Saw off pipe.



Insert rubber ring into the capped pipe and push the junction over the capped pipe.



Lock the QF strap over the rubber ring and one end of the covering pipe.

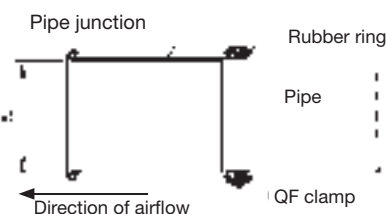


Complete assembly with pipe junction.

## QF pipe



## QF adjustable nipple



Excl. clamp and O-ring.  
Instructions for assembly, see this page.

## QF clamp



Ø, mm	Part no.	L mm	Thickness, mm	Weight, kg
080	20915.080	980	0,7	2,3
100	20915.100	1478	0,7	2,8
125	20915.125	1478	0,7	3,4
140	20915.140	1478	0,7	4,0
150	20915.150	1478	0,7	4,2
160	20915.160	1478	0,7	4,5
180	20915.180	1471	0,7	5,1
200	20915.200	1471	0,7	5,7
224	20915.224	1471	0,7	6,2
250	20915.250	1471	0,7	7,1
300	20915.300	1462	0,7	8,5
315	20915.315	1462	0,7	8,8
350	20915.350	1462	0,7	9,9
400	20915.400	1462	0,9	13,6
450	20915.450	1462	0,9	15,3
500	20915.500	1462	0,9	17,0
560	20915.560	1462	0,9	18,7

Ø, mm	Part no.	L mm	Thickness, mm	Weight, kg
100	20000.100	278	0,7	0,4
125	20000.125	278	0,7	0,5
140	20000.140	278	0,7	0,5
150	20000.150	278	0,7	0,6
160	20000.160	278	0,7	0,6
180	20000.180	271	0,7	0,7
200	20000.200	271	0,7	0,8
224	20000.224	271	0,7	0,9
250	20000.250	271	0,7	1,0
300	20000.300	262	0,7	1,1
315	20000.315	262	0,7	1,2
350	20000.350	262	0,7	1,3
400	20000.400	262	0,9	2,0
450	20000.450	262	0,9	2,2
500	20000.500	262	0,9	2,4
560	20000.560	262	0,9	2,7

Ø, mm	Part no.	Weight, kg
080	30100-080	0,05
100	30100-100	0,05
125	30100-125	0,07
140	30100-140	0,07
160	30100-160	0,08
180	30100-180	0,16
200	30100-200	0,18
250	30100-250	0,27
315	30100-315	0,44
350	30100-350	0,49
400	30100-400	0,56
450	30100-450	0,62
500	30100-500	0,69

## QF segmented bends

### 90° segmented bends

Ø, mm	Part no.	r	Thickness, mm	Weight, kg
200	21009.200	300	0,7	2,40
224	21009.224	337	0,7	3,10
250	21009.250	375	0,7	3,30
300	21009.300	450	0,7	4,50
315	21009.315	472	0,7	4,90
350	21009.350	525	0,7	5,90
400	21009.400	600	0,9	10,60
450	21009.450	675	0,9	12,00
500	21009.500	750	0,9	14,00
560	21009.560	840	0,9	29,30

### 60° segmented bends

Ø, mm	Part no.	r	Thickness, mm	Weight, kg
200	21006.200	300	0,7	1,80
224	21006.224	337	0,7	2,10
250	21006.250	375	0,7	2,40
300	21006.300	450	0,7	3,50
315	21006.315	472	0,7	4,10
350	21006.350	525	0,7	5,10
400	21006.400	600	0,9	7,30
450	21006.450	675	0,9	8,70
500	21006.500	750	0,9	10,20
560	21006.560	840	0,9	20,80



### 45° segmented bends

Ø, mm	Part no.	r	Thickness, mm	Weight, kg
200	21004.200	300	0,7	1,80
224	21004.224	337	0,7	2,20
250	21004.250	375	0,7	2,30
300	21004.300	450	0,7	2,9
315	21004.315	472	0,7	2,45
350	21004.350	525	0,7	3,40
400	21004.400	600	0,9	5,50
450	21004.450	675	0,9	6,60
500	21004.500	750	0,9	7,60
560	21004.560	840	0,9	16,70

### 30° segmented bends

Ø, mm	Part no.	r	Thickness, mm	Weight, kg
200	21003.200	300	0,7	1,15
224	21003.224	337	0,7	1,50
250	21003.250	375	0,7	1,80
300	21003.300	450	0,7	2,10
315	21003.315	472	0,7	2,45
350	21003.350	525	0,7	2,85
400	21003.400	600	0,9	4,20
450	21003.450	675	0,9	4,80
500	21003.500	750	0,9	5,50
560	21003.560	840	0,9	12,70

### 15° segmented bends

Ø, mm	Part no.	r	Thickness, mm	Weight, kg
200	21002.200	300	0,7	0,70
224	21002.224	337	0,7	0,90
250	21002.250	375	0,7	0,90
300	21002.300	450	0,7	1,30
315	21002.315	472	0,7	0,30
350	21002.350	525	0,7	2,85
400	21002.400	600	0,9	4,20
450	21002.450	675	0,9	4,80
500	21002.500	750	0,9	5,50
560	21002.560	840	0,9	12,70

## QF bends

### 90° pressed bends

Ø, mm	Part no.	r	Thickness, mm	Weight, kg
080	21009.080	120	0,7	0,2
100	21009.100	150	0,7	0,25
125	21009.125	190	0,7	0,45
150	21009.150	225	0,7	0,8
160	21009.160	240	0,7	0,8
180	21009.180	270	0,7	1,0

### 60° pressed bends

Ø, mm	Part no.	r	Thickness, mm	Weight, kg
080	21006.080	120	0,7	0,2
100	21006.100	150	0,7	0,3
125	21006.125	190	0,7	0,4
150	21006.150	225	0,7	0,6
160	21006.160	240	0,7	0,7
180	21006.180	270	0,7	0,8



### 45° pressed bends

Ø, mm	Part no.	r	Thickness, mm	Weight, kg
080	21004.080	120	0,7	0,2
100	21004.100	150	0,7	0,2
125	21004.125	190	0,7	0,23
150	21004.150	225	0,7	0,4
160	21004.160	240	0,7	0,41
180	21004.180	270	0,7	0,5

### 30° pressed bends

Ø, mm	Part no.	r	Thickness, mm	Weight, kg
080	21003.080	120	0,7	0,15
100	21003.100	150	0,7	0,18
125	21003.125	190	0,7	0,23
150	21003.150	225	0,7	0,4
160	21003.160	240	0,7	0,41
180	21003.180	270	0,7	0,5

### 15° pressed bends

Ø, mm	Part no.	r	Thickness, mm	Weight, kg
080	21002.080	120	0,7	0,1
100	21002.100	150	0,7	0,2
125	21002.125	190	0,7	0,4
150	21002.150	225	0,7	0,4
160	21002.160	240	0,7	0,4
180	21002.180	270	0,7	0,5

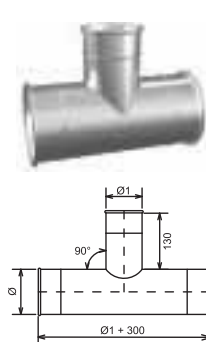
## QF branch



When ordering, state  $\varnothing 1$  and  $\varnothing 2$  ( $\varnothing 1 \leq \varnothing 2$ ;  $\varnothing 2 \leq \varnothing$ ).  
Standard 30°, 45° can also be supplied.

Ø, mm	Part no.	Thickness, mm	Weight, kg
080	QG080	0,9	0,9
100	QG100	0,9	1,2
125	QG125	0,9	1,6
140	QG140	0,9	1,9
150	QG150	0,9	2,3
160	QG160	0,9	2,6
180	QG180	0,9	2,9
200	QG200	0,9	3,4
224	QG224	0,9	4,2
250	QG250	0,9	4,8
300	QG300	0,9	5,9
315	QG315	0,9	7,7
350	QG350	0,9	8,5
400	QG400	0,9	10,6
450	QG450	0,9	13,4
500	QG500	0,9	16,3
560	QG560	0,9	19,8

## QF T-pipe



When ordering, state  $\varnothing 1$  ( $\varnothing 1 \leq \varnothing$ ).

Ø, mm	Part no.	Thickness, mm	Weight, kg
080	22070.080	0,9	1,0
100	22070.100	0,9	1,1
125	22070.125	0,9	1,5
140	22070.140	0,9	1,6
150	22070.150	0,9	1,9
160	22070.160	0,9	2,0
180	22070.180	0,9	2,4
200	22070.200	0,9	2,6
224	22070.224	0,9	3,1
250	22070.250	0,9	3,6
300	22070.300	0,9	4,6
315	22070.315	0,9	4,9
350	22070.350	0,9	5,7
400	22070.400	0,9	7,3
450	22070.450	0,9	8,5
500	22070.500	0,9	10,0
560	22070.560	0,9	12,0

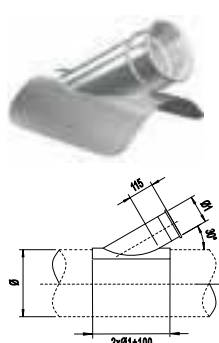
## QF Y-branch



When ordering, state  $\varnothing 1$  and  $\varnothing 2$  ( $\varnothing 1 \leq \varnothing$ ;  $\varnothing 2 \leq \varnothing 1$ ).  
Standard 60°, 90° can also be supplied.

Ø, mm	Part no.	Thickness, mm	Weight, kg
080	QB080	0,9	0,8
100	QB100	0,9	1,1
125	QB125	0,9	1,5
140	QB140	0,9	1,6
150	QB150	0,9	1,9
160	QB160	0,9	2,1
180	QB180	0,9	2,5
200	QB200	0,9	2,9
224	QB224	0,9	3,4
250	QB250	0,9	4,2
300	QB300	0,9	5,5
315	QB315	0,9	5,9
350	QB350	0,9	7,1
400	QB400	0,9	9,0
450	QB450	0,9	11,2
500	QB500	0,9	13,3
560	QB560	0,9	14,3

## QF cut-in 30°



When ordering, state  $\varnothing 1$  ( $\varnothing 1 \leq \varnothing$ ).  
Standard 30°, 45° can also be supplied.

Ø, mm	Part no.	Thickness, mm	Weight, kg
080	QI080	0,9	0,7
100	QI100	0,9	0,9
125	QI125	0,9	1,2
140	QI140	0,9	1,3
150	QI150	0,9	1,5
160	QI160	0,9	1,7
180	QI180	0,9	2,0
200	QI200	0,9	2,5
224	QI224	0,9	2,6
250	QI250	0,9	3,4
300	QI300	0,9	4,4
315	QI315	0,9	5,0
350	QI350	0,9	5,8
400	QI400	0,9	7,1
450	QI450	0,9	9,0
500	QI500	0,9	11,3
560	QI560	0,9	15,0

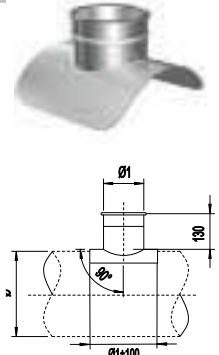
## QF double branch



When ordering, state  $\varnothing 1$ ,  $\varnothing 2$  and  $\varnothing 3$  ( $\varnothing 1 \leq \varnothing 2$ ;  $\varnothing 2 \leq \varnothing$ ;  $\varnothing 3 \leq \varnothing 1$ ).  
Standard 30°, 45° can also be supplied.

Ø, mm	Part no.	Thickness, mm	Weight, kg
080	QT080	0,9	1,1
100	QT100	0,9	1,8
125	QT125	0,9	2,3
140	QT140	0,9	2,8
150	QT150	0,9	3,2
160	QT160	0,9	3,6
180	QT180	0,9	4,2
200	QT200	0,9	4,9
224	QT224	0,9	5,9
250	QT250	0,9	6,9
300	QT300	0,9	8,7
315	QT315	0,9	10,7
350	QT350	0,9	12,1
400	QT400	0,9	14,9
450	QT450	0,9	18,8
500	QT500	0,9	22,8
560	QT560	0,9	27,7

## QF cut-in 90°



When ordering, state  $\varnothing 1$  ( $\varnothing 1 \leq \varnothing$ ).

Ø, mm	Part no.	Thickness, mm	Weight, kg
080	QP080	0,9	0,4
100	QP100	0,9	0,5
125	QP125	0,9	0,6
140	QP140	0,9	0,8
150	QP150	0,9	0,8
160	QP160	0,9	0,8
180	QP180	0,9	1,0
200	QP200	0,9	1,0
224	QP224	0,9	1,2
250	QP250	0,9	1,3
300	QP300	0,9	1,7
315	QP315	0,9	1,7
350	QP350	0,9	2,1
400	QP400	0,9	2,6
450	QP450	0,9	2,9
500	QP500	0,9	3,8
560	QP560	0,9	5,1

## QF end piece



Ø, mm	Part no.	Thickness, mm	Weight, kg
080	22012.080	0,7	0,08
100	22012.100	0,7	0,11
125	22012.125	0,7	0,13
140	22012.140	0,7	0,15
150	22012.150	0,7	0,16
160	22012.160	0,7	0,17
180	22012.180	0,7	0,19
200	22012.200	0,7	0,21
224	22012.224	0,7	0,24
250	22012.250	0,7	0,27
300	22012.300	0,7	0,32
315	22012.315	0,7	0,33
350	22012.350	0,7	0,37
400	22012.400	0,9	0,54
450	22012.450	0,9	0,61
500	22012.500	0,9	0,68
560	22012.560	0,9	0,76

## Inlet pipe with wire guard.



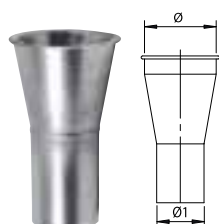
Ø, mm	Part no.	Thickness, mm	Weight, kg
080	22022.080	0,7	0,09
100	22022.100	0,7	0,13
125	22022.125	0,7	0,18
140	22022.140	0,7	0,22
150	22022.150	0,7	0,24
160	22022.160	0,7	0,26
180	22022.180	0,7	0,35
200	22022.200	0,7	0,40
224	22022.224	0,7	0,49
250	22022.250	0,7	0,62
300	22022.300	0,7	0,88
315	22022.315	0,7	1,15
350	22022.350	0,7	1,60
400	22022.400	0,9	2,12
450	22022.450	0,9	2,63
500	22022.500	0,9	3,20
560	22022.560	0,9	3,86

## Suction hoods



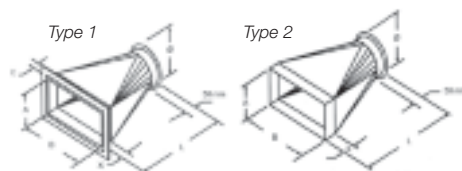
Ø, mm	Part no.	Ø, mm	Part no.
080	23012.080	224	23012.224
100	23012.100	250	23012.250
125	23012.125	300	23012.300
140	23012.140	315	23012.315
150	23012.150	350	23012.350
160	23012.160	400	23012.400
180	23012.180	450	23012.450
200	23012.200	500	23012.500
		560	23012.560

## QF reducers



Ø, mm	Part no.	Ø1, mm	Thickness, mm
080	RRGL-QF080.063	063	0,75
080	RRGL-QF080.050	050	0,75
080	RRGL-QF080.076	076	0,75

## Transitions

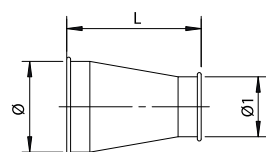


Ø, mm	Part no.
080	22035.080
100	22035.100
125	22035.125
140	22035.140
150	22035.150
160	22035.160
180	22035.180
200	22035.200
224	22035.224

Ø, mm	Part no.
250	22035.250
300	22035.300
315	22035.315
350	22035.350
400	22035.400
450	22035.450
500	22035.500
560	22035.560

When ordering, state Ø and Ax B, L and X.

## QF reducers



When ordering, state Ø and Ø1.

Ø, mm	Part no.	Ø1, mm	Thickness, mm	Length, mm	Weight, kg
100	QR100080	80	0,9	150	0,5
125	QR125100	100	0,9	150	0,6
140	QR140125	125	0,9	150	0,7
150	QR150140	140	0,9	150	0,8
160	QR160150	150	0,9	150	0,8
180	QR180160	160	0,9	150	0,9
200	QR200180	180	0,9	150	1,0
224	QR224200	200	0,9	150	1,1
250	QR250224	224	0,9	152	1,3
300	QR300250	250	0,9	200	1,6
315	QR315300	300	0,9	150	1,8
350	QR350315	315	0,9	170	2,1
400	QR400350	350	0,9	200	2,5
450	QR450400	400	0,9	200	3,0
500	QR500450	450	0,9	200	5,0
560	QR560500	500	0,9	220	5,5

## QF special reducers

with large changes of dimension

Ø, mm	Part no.	Thickness, mm	Maximum
125	QR125	0,9	0,87
140	QR140	0,9	1,05
150	QR150	0,9	1,15
160	QR160	0,9	1,23
180	QR180	0,9	1,38
200	QR200	0,9	1,56
224	QR224	0,9	1,70
250	QR250	0,9	2,00
300	QR300	0,9	2,34
315	QR315	0,9	2,67
350	QR350	0,9	3,10
400	QR400	0,9	3,76
450	QR450	0,9	4,46
500	QR500	0,9	7,51
560	QR560	0,9	8,30

When ordering, state Ø and Ø1 (max. 5-stage dimension changes).  
Minimum length, 150 mm  
- L = 2 x (Ø-Ø1) + 100.





# HOSES



## Hoses for demanding uses.

Nederman has a wide range of quality hoses with most dimensions and specifications kept in stock for immediate delivery. Please consult our sales staff to find the right hose at the right price.

Hoses for all application areas:

- Dust extraction where there is a risk of dust explosion
- Extraction of welding fumes and grinding dust
- Extraction of oil mist
- Hoses for machine connections
- Hoses for abrasive materials

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# Suction hose

## Suction hose PU 4



Very flexible hose, light weight. Suitable for transporting abrasive material such as wood shavings, sawdust, cement dust, granulates and technical gases in the chemical and petrochemical industries. Very good resistance to wear and ageing. Good resistance to fuels, oils, solvents and grease.

## Suction hose PU 7



Flexible hose, light weight. Suitable for use as a cleaning/ suction hose and to transport abrasive material such as wood shavings, sawdust, cement dust, granulates and technical gases in the chemical and petrochemical industries. Very good resistance to wear and ageing. Good resistance to fuels, oils, solvents and grease.

Transparent polyurethane hose, t = 0.4. Reinforced with embedded steel helix.  
Temp. range: -50 °C to +80 °C.

Ø, mm	Length, m	Bend radius	Max. vacuum kPa at 23 ±2°C	Part no.
38	10	32	20	40160442
51	5	35	20	40375956
51	10	35	20	40375957
63	5	42	16	40375958
63	10	42	16	40375959
76	5	53	10	40375960
76	10	53	10	40375961
82	5	56	10	40375962
82	10	56	10	40375963
102	5	70	9	40375964
102	10	70	9	40375965
127	5	88	8	40375966
127	10	88	8	40375967
152	5	105	6	40375968
152	10	105	6	40375969
165	5	112	6	40375970
165	10	112	6	40375971
182	5	123	5	40375972
182	10	123	5	40375973
203	5	140	5	40375974
203	10	140	5	40375975
229	5	155	4	40375976
229	10	155	4	40375977
254	5	175	4	40375978
254	10	175	4	40375979
305	5	210	3	40375980
305	10	210	3	40375981

Transparent polyurethane hose, t = 0.7. Reinforced with embedded steel helix.  
Temp. range: -50 °C to +80 °C.

Ø, mm	Length, m	Bend radius inner	Max. vacuum kPa at 23 ±2°C	Part no.
38	10	40	25	40375982
51	5	50	25	40375983
51	10	50	25	40375984
63	5	60	25	40375985
63	10	60	25	40375986
76	5	70	20	40375987
76	10	70	20	40375988
82	5	80	20	40375989
82	10	80	20	40375990
102	5	100	18	40375991
102	10	100	18	40375992
127	5	120	15	40375993
127	10	120	15	40375994
152	5	150	10	40375995
152	10	150	10	40375996
165	5	160	8	40375997
165	10	160	8	40375998
182	5	180	7	40375999
182	10	180	7	40376000
203	5	200	6	40376001
203	10	200	6	40376002
229	5	225	4	40376003
229	10	225	4	40376004
254	5	250	4	40376005
254	10	250	4	40376006
305	5	300	2	40376007
305	10	300	2	40376008

# Suction hose

## Suction hose PU 12



Robust hose, smooth inside. Suitable for transporting abrasive material such as blasting grit, swarf and glass fibre dust. Very good resistance to wear and ageing. Good resistance to fuels, oils, solvents and grease.

## Suction hose PE/C



Light and flexible extraction hose. Mainly suited for cleaning and where exceptional conductivity of static electricity is required.

Transparent polyurethane hose, t = 1.2. Reinforced with embedded steel helix. Temp. range: -40 °C to +90 °C.

Ø, mm	Length, m	Bend radius	Max. vacuum kPa at 23 ±2°C	Part no.
38	5	50	95	43831018
38	10	50	95	43831019
38	20	50	95	43831001
51	5	60	93	43832500
51	7,5	60	93	43832102
51	10	60	93	43832600
51	20	60	93	43832300
63	5	75	75	43833200
63	10	75	75	43833001
63	20	75	75	43833100
76	10	103	61	43834200
76	20	103	61	43834300
102	10	136	40	43835001
152	10	196	20	43836001

Max. vacuum 60 kPa. Conductivity < 106Ω. Temp. range -40 °C to +60 °C.

Ø, mm	Length, m	Part no.
25	15	40160305
32	5	40160311
32	10	40160313
32	15	40160315
38	5	40160321
38	10	40160322
38	15	40160323
51	5	40160331
51	7,5	43812103
51	10	40160334
51	15	40160333
63	5	40375954
63	10	40375955
63	15	40375787

## Suction hose PE



Single suction hose, mainly intended for simple cleaning.

Temp. range: -40 °C to +60 °C. Max. vacuum: 60 kPa.

Ø, mm	Length, m	Part no.
25	10	40160712
32	5	40375953
32	10	40160722
38	5	40160731
38	10	40160733
51	5	40160741
51	10	40160743

## FS-hose



Application areas Flexible hose with steel helix to discharge static electricity. Mainly used for extraction from hand tools and balance arms.

Temp. range 0 °C to +80 °C. Max. vacuum: 60 kPa.

Ø, mm	Length, m	Part no.
38	15	40160202
44	15	40160223
51	15	40160252
63	15	40160263

# Suction hose

## Suction hose PVC



Application areas  
Robust oil-resistant hose,  
smooth inside. Very good  
resistance to wear and ageing.  
Good resistance to fuels,  
oils, solvents, chemicals  
and grease.

Blue PVC hose,  $t = 1.2$ . Reinforced with embedded steel helix. Temp. range:  $-20\text{ }^{\circ}\text{C}$  to  $+70\text{ }^{\circ}\text{C}$ .

Ø, mm	Length, m	Bend radius inner	Max. vacuum kPa at $23 \pm 2^{\circ}\text{C}$	Part no.
51	30	60	84	43822300

## W-hose



Light and flexible plastic hose.  
Mainly used for extraction of  
fumes from welding torches  
with integrated extractor or  
nozzle.

Temp. range  $-40\text{ }^{\circ}\text{C}$  to  $+60\text{ }^{\circ}\text{C}$ . Max. vacuum: 60 kPa.

Ø, mm	Length, m	Part no.
44	5	40376009
44	10	40376010
44	20	40161283
51	5	40376011
51	10	40376012
51	20	40165253
63	5	40376013
63	10	40376014
63	20	40161263

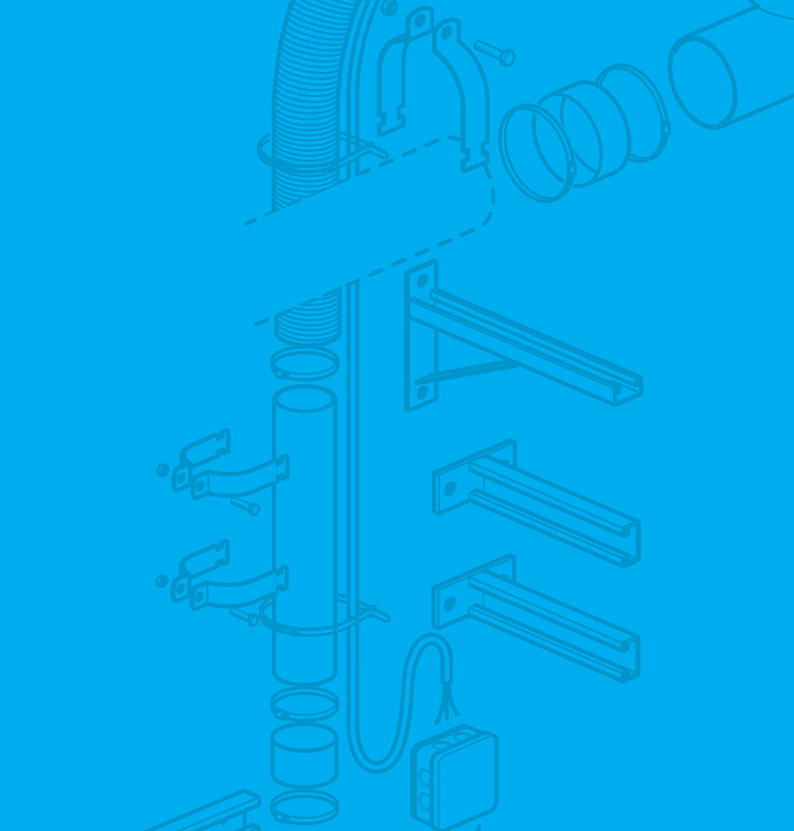
## Hose clip



Ø, mm	Part no.
22-32	40376019
32-44	40376020
38-50	40376021
50-65	40376022
58-75	40376023
68-85	40376024
77-95	40376025
87-112	40376026
104-138	40376027
130-165	40376028
150-180	40376029
175-205	40376030
200-231	40376031
230-250	40376032
050-135	40376033
060-325	40376034







## Our high vacuum dust collectors can be used for many different applications.

Our solutions in this area include everything from mobile units to large stationary systems where Nederman can offer a complete solution to meet most needs. The term 'high vacuum' refers to the high vacuum and low airflow used to catch, transport and filter fumes, dust and other particles.

Our solutions include:

- Extraction of fumes from welding torches
- Extraction of grinding dust directly from the hand-held grinding machine thanks to our range of manifolds that matches most hand-held machines on the market
- Cleaning of floors and machines etc. with our wide choice of accessories
- Transport of large volumes of material which may be both heavy and abrasive



## HIGH VACUUM

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## High vacuum

### Our high vacuum dust collectors can be used for many different applications:



#### Extraction of fumes from welding torches

Many of today's welding torches are now prepared for integrated extraction, which means that the torch is ready for connection to a Nederman extraction system. With a low airflow, the hazardous welding fumes can be captured directly from the welding torch before they can spread into the environment. Nederman also has nozzles that fit torches that are not prepared for extraction, see page 40.



#### Extraction of grinding dust

Extraction of grinding dust with Nederman manifolds that can easily be fitted to most hand-held machines on the market. By connecting our extraction unit to the tool we can capture the airborne dust before it is able to spread into the air, to be inhaled by the workers or settle on the floor.



#### Extraction via nozzles

Extraction of e.g. welding fumes or grinding dust via nozzles. Sometimes it is not appropriate to have extraction through the welding torch or grinding machine, in which case Nederman can provide various types of extraction nozzle to make it easy to capture the dust or fumes.



#### Cleaning of floors and machines

The ability to connect cleaning equipment to the Nederman system means you can keep floors and machines clean and tidy. This produces a better working environment but will also prevent unexpected stoppages of machines that may be caused by the dirty environment. We have a wide range of accessories to fit most needs.



#### Material transport

Nederman also has mobile and stationary solutions for material transport where large volumes of heavy material need to be extracted. We have a large number of installations all over the world handling materials such as swarf and blasting grit.

This can either be done with the aid of Nederman's mobile dust separators (see page 139) which can simply be moved around the premises, or you can use our compact units (see page 144) which come complete with vacuum generator, filters and control systems. Nederman's compact units can either be connected to a fixed pipe system or moved around with a fork lift.

We also have solutions for larger systems; these are presented on page 147.

In a dust collector, large volumes of fine dust can accumulate and in some cases, this dust may be explosive (e.g. wood dust, composite dust etc.). Nederman has solutions to minimise the risk of an explosion in the dust collector and, if an accident does happen, to deal with the explosion safely. We have both mobile and stationary dust collectors approved for explosive dust according to the ATEX Directive 94/9/EC. Find out more on our website and contact us for advice.



# Mobile dust collectors



Nederman's mobile dust collectors can be used for a lot of different applications, such as: Extraction of grinding dust from grinding machines, extraction of welding fumes, general cleaning, collection of fluids, material transport etc. They are always supplied with fittings for cleaning floors; other hand nozzles and brushes are available as accessories on pages 154-155.

## Our mobile range comes in three different versions:

- A: compressed air-driven Also available in ATEX-approved version (designated A EX).
- E: electric 1-phase.
- S: electric 3-phase side channel fan.

Model	160E	115E	115A	115A EX	300E	216E	216A	216A EX	306E	306A	426E	426A	426A EX
Part no. Pneumatic	-	-	42111585	42211500	-	-	42121692	42221639	-	42130602	-	42142606	42242609
Part no. (1x230V EUR)	40055000	42411581	-	-	40055400	42421681	-	-	42430606	-	42442605	-	-
Part no. (1x230V DK)	40055010	-	-	-	40055410	-	-	-	-	-	-	-	-
Extractor top		NEL3R	NE32	NE32		NEL3R	NE32	NE32	NEL3R	NE32	NEL3R	NE52	NE52
Power, kW	1,2	2,4	-	-	2,4	2,4	-	-	2,4	-	2,4	-	-
Compressed air consumption, Nm <sup>3</sup> /min	-	-	1,6	1,6	-	-	1,6	1,6	-	1,6	-	3	3
Capacity freeblowing, m <sup>3</sup> /h	160	460	342	342	300	460	342	342	460	342	460	342	342
Max. vacuum, kPa	-22	-22	-31	-31	-22	-22	-31	-31	-22	-31	-22	-52	-52
Filter cleaning method	Manual	-	-	-	Manual	Manual	Manual	Manual	-	-	Manual	Manual	Manual
Noise level, dB(A)	75	75	74	74	75	75	74	74	75	74	75	75,5	75,5
Volume of collection bin, l	14	40	40	40	21	47	47	47	40+47	40+47	58+47	58+47	58+47
Weight, kg	19,5	50	51	51	19,5	69	69	69	67	69	160	160	160
Hose Ø mm/Length m	38/5	51/7.5	51/7.5	51/7.5	38/5	51/7.5	51/7.5	51/7.5	51/7,5	51/7.5	51/7.5	51/7.5	51/7.5
Cleaning system, Model	40191130	42932100	42932100	42932100	40191140	42932100	42932100	42932100	42932100	42932100	42932100	42932100	42932100

Model	500E	500A	500A EX	510E	510A	510A EX	570A	014A	Model	30S	55S	680S
Part no. Pneumatic	-	42150085	42250016	-	42151086	42251035	42157087	42101404	Part nr (3x400V)	40055800	40056000	42468072
Part no. (1x230V EUR)	42450002	-	-	42451002	-	-	-	-	Part no. (3x230V)	40055810	-	42468073
Part no. (1x230V DK)	-	-	-	-	-	-	-	-	Power, kW	3	5,5	5,5
Extractor top	NEL3R	NE52	NE52	NEL3R	NE52	NE52	NE64	NE14	Capacity freeblowing, m <sup>3</sup> /h	240	360	639
Power, kW	2,4	-	-	2,4	-	-	-	-	Max. vacuum, kPa	-30	-30	-30
Compressed air consumption, Nm <sup>3</sup> /min	-	3	3	-	3	3	4,3	0,7	Filter cleaning method	Manual	Manual	Manual
Capacity freeblowing, m <sup>3</sup> /h	460	342	342	460	342	342	330	132	Noise level, dB(A)	71	72	84
Max. vacuum, kPa	-22	-52	-52	-22	-52	-52	-68	-23	Volume of collection bin, l	25	25	47
Filter cleaning method	-	-	-	-	-	-	-	-	Weight, kg	74	101	135
Noise level, dB(A)	75	75,5	75,5	75	75,5	75,5	77	80	Hose Ø mm/Length m	38/10	51/10	conn. 51 - 76
Volume of collection bin, l	160	160	160	160	160	160	146	-	Cleaning system, Model	40191140	42932100	-
Weight, kg	110	110	110	116	116	116	203	8				
Hose Ø mm/Length m	51/7.5	51/7.5	51/7.5	51/7.5	51/7.5	51/7.5	63/20	38/5				
Cleaning system, Model	42932100	42932100	42932100	42932100	42932100	42932100	42930000	40191130				

# Mobile dust collectors



**Drum filler  
014A**

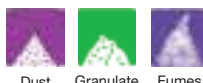


Liquid

This drum filler is a small ejector. The ejector fits into a normal 2" oil drum opening. Well suited for extracting liquids. Integrated float switches the extractor off when the drum is full. Oil drum not included.



**160E**



Dust

Granulate

Fumes

The dust collector 160 is our smallest dust collector. Suitable for general cleaning and extracting welding fumes and grinding dust in construction sites and small workshops. Has automatic start/stop function for electric tools. High filtration efficiency in main filter; HEPA filter as option.



**115A  
115E  
115A EX**



Dust

Granulate

Swarf

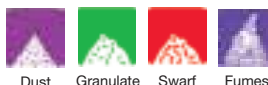
Liquid



Dust collector 115. Versatile dust collector for collecting oil, chemicals, sludge and short swarf, powder and granulates. Practical and easy evacuation with a simple hand grip.



**300E**



Dust

Granulate

Swarf

Fumes

300E is suitable for general cleaning and extracting welding fumes and grinding dust in construction sites, industry and automotive repair shops. Has automatic start/stop function for electrical and pneumatic tools. Has high filtration efficiency in the main filter. Simple and efficient filter cleaning using atmospheric pressure. HEPA filter optional.



**216E  
216A  
216A EX**



Dust

Grit

Granulate

Swarf

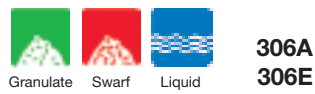
Fumes



A powerful dust collector for most extraction needs, for dry and hazardous materials. The filter system is enhanced with a cartridge separated by a protective plate. Filter cleaning using atmospheric pressure. Can be fitted with HEPA filters.



# Mobile dust collectors



Versatile dust collector to collect most types of wet and dry material. Three-stage separation. Practical and easy evacuation with a simple hand grip.



Dust collector with pre-separator and bottom evacuation for most extraction needs such as recycling welding flux powder, blasting grit, granulates metals, and hazardous materials. The filter system is enhanced with a cartridge separated by a protective plate. Filter cleaning using atmospheric pressure. Can be fitted with HEPA filters.



Intended for the extraction of large volumes of swarf, sludge, cutting oils and other liquids. The filter system is a teflon-coated polyester filter, which is washable. The container is fitted with a 2" drain valve.



Intended for the extraction of large volumes of swarf, sludge, cutting oils and other liquids. The filter system is a teflon-coated polyester filter, which is washable. The container, which is fitted with a 2" drain valve, is fixed to a tiltable trolley for ease of emptying. Trolley suitable for handling by forklift truck.



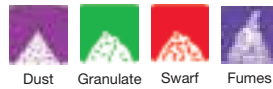
Intended for the extraction of large volumes of material. The filter system is a sintered plastic rod filter cleaned with compressed air. The container is fitted with a bottom discharge valve, Ø 150 mm. Trolley suitable for handling by forklift truck. This unit is best suited for use with an ejector.



## Mobile dust collectors Three-phase



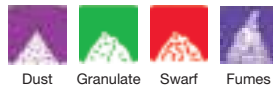
**30S**



Suitable for continuous operation in a production or industrial environment. Can be used for everything from capturing welding fumes and grinding dust to general cleaning and swarf extraction. Has high filtration efficiency in the main filter. Simple and efficient filter cleaning using atmospheric pressure. HEPA filter optional.



**55S**



Powerful dust collector suitable for continuous operation in a production or industrial environment. Can be used for everything from capturing welding fumes and grinding dust to general cleaning and swarf extraction. Has high filtration efficiency in the main filter. Simple and efficient filter cleaning using atmospheric pressure. HEPA filter optional.



**680S**



Very powerful dust collector for most extraction needs for dry materials. The filter system is enhanced with a cartridge separated by a protective plate. Filter cleaning using atmospheric pressure. Can be fitted with HEPA filters. The extractor has the capacity to recover granulates and blasting grit as well as finer dust. HEPA filter optional.



# Mobile dust collectors



## Fume eliminator 840/841

The fume eliminator 840/841 is a small, lightweight, portable extraction unit designed to be carried to the working area. Connected to a welding torch or to an extraction nozzle, the FE 840/841 unit extracts the fume directly at source. FE 840 has a manual start/stop function. FE841 has an automatic start/stop function which starts the unit as soon as the welding begins. It also includes an indicator for filter exchange.

- Portable, easy to carry.
- Low service costs.



	Voltage, V / electric plug	Power, W	Airflow with 2.5 m hose, m³/h	Filtration efficiency	Max.vacuum, kPa	Noiselevel, dB (A)	Length, mm	Width, mm	Height, mm	Weight, kg	Part no.
<b>FE 840</b> Manual start/stop	230/EUR	1000	150	99,7	22	73	830	230	410	16	70840000
<b>FE841</b> Auto. start/stop	230/EUR	1000	150	99,7	22	73	830	230	410	16	70841000

Accessories	Part no.
Nozzle TM 80, length 500 mm, Ø 80 mm	70851000
Nozzle TM 200, length 570 mm, slot width 200 mm, slot height 30 mm	70854000
Nozzle PM 300, slot width 300 mm, slot height 5 mm	70853000
Hose, Ø 45 mm, 5 m	70400026
Hose, Ø 45 mm, 15 m	70400028



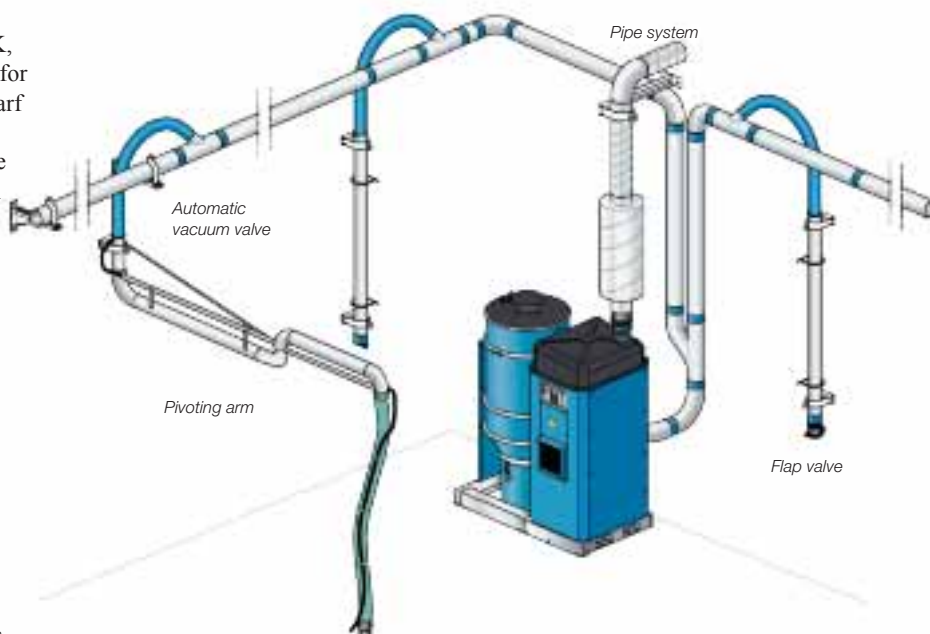
Fume eliminator

# Compact dust collectors

Nederman supplies a wide range of powerful compact units comprising of a vacuum source, control system and filter. The L-PAK, E-PAK and FlexPAK products are suitable for handling welding fumes, grinding dust, swarf and general cleaning. The air driven 450A, 471A, 600A and 722A products are suitable for material transport, recycling of material and more heavy duty cleaning needs.

For a complete solution, an efficient vacuum/filter unit is needed. Nederman offers a range from compact units with vacuum unit, filters and start/stop equipment built in to larger systems made up of separate units.

A central extraction system with pipework system for a large number of extraction points with different types of attachments for hand tools, welding torches combined with accessories of suspension arms, cleaning equipment and hose reels to make up turnkey solutions. Our specialists can help you to put together a complete solution including design, planning, installation and commissioning, as well as how to handle combustible dust.



## Compact units - Electrical

Model	L-PAK 150	L-PAK 250	E-PAK 500	FlexPAK 800	FlexPAK 1000
Part no. (3x400V)	40051900	40051800	40051430	40050170	40050180
Power, kW	3	5,5	13	18,5	18,5
Capacity free-blowing, m³/h	290	420	860	1300	1300
Capacity at - 15 kPa, m³/h	150	250	500	-	1000
Capacity at - 20 kPa, m³/h	-	-	-	800	-
Max. vacuum, kPa	-22	-21	-25	-35	-20
Filter surface, m²	1,1	1,6	3,4	6	6
Filter cleaning method	Automatic	Automatic	Automatic	Automatic	Automatic
Noise level, dB(A)	72	74	-	-	-
Noise level with silencer hood, dB(A)	62	64	67	70	70
Volume of collection bin, l	35	35	62	70	70
Weight, kg	110	140	333	465	465

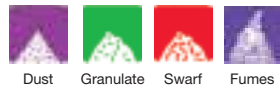
Accessories	
Silencer hood L-PAK	40073020
FlexPAK level sensor	40780710
FlexPAK pressure drop sensor	40780641
FlexPAK fire alarm	40116540

## Compact units - Air driven

Model	450 A	471 A	600 A	722 A
Part no.	42145018	42147104	42160081	42172207
Extractor top	NE42	NE52	NE76	NE76
Compressed air consumption, Nm³/min	2,2	3	5,4	5,4
Capacity free-blowing, m³/h	360	342	690	690
Max. vacuum, kPa	-42	-52	-48	-48
Hose connection Ø, mm	51	51	76	76
Filter surface, m²	1,6	1,6	3,15	5,25
Filter cleaning method	Automatic	Automatic	Automatic	Automatic
Noise level, dB(A)	73,5	75,5	78	78
Volume of collection bin, l	47	89 + 67	146	67 + 220
Weight, kg	88	165	144	300

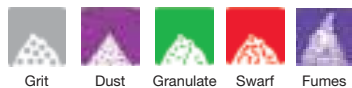


# Compact dust collectors Electrical



**L-PAK**

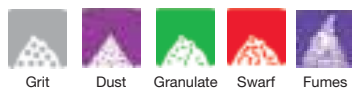
The Nederman L-PAK unit offers highly effective solutions for removing dust and fumes in all types of industries. The compact design makes it easy to place the stationary unit into a restricted work space. Two-stage separation with automatic filter cleaning using atmospheric pressure. Suitable for one to two simultaneous users depending on the application.



**E-PAK**

E-PAK is intended for extracting welding fumes, grinding dust, swarf, composite material, dust and particles. E-PAK can also be used as a central extraction unit and cleaning system for workstations and machines. Suitable for one to six simultaneous users depending on the application.

*Contact Nederman for information about our E-PAK that is suitable for explosive dust.*



**FlexPAK**

FlexPAK is intended for extracting welding fumes, grinding dust, swarf, composite material, dust and particles. FlexPAK can also be used as a central extraction unit and cleaning system for workstations and machines. Demand-driven vacuum with frequency control makes for energy-efficient operation. FlexPAK can serve two to ten simultaneous users depending on the application.

*Contact Nederman for information about our FlexPAK that is suitable for explosive dust.*

FlexPAK 800 maintains a higher vacuum and is suited to collecting heavier material such as swarf, stones, gravel and blasting grit where maximum suction is needed.

FlexPAK 1000 maintains a lower vacuum and is suited to extracting welding fumes and grinding dust and for use where a constant airflow is required regardless of the number of users.



## Compact dust collectors Air driven



**450A**

Extraction system for fixed installation, with collection bin. Fitted with NVF filter, which is cleaned every time the extractor is switched off. The collected material passes through the cyclone to a container. Powerful ejector intended for collecting heavier material.



**471A**

Double container system for fixed installation. Fitted with pre-separator for separation of e.g. blasting grit from dust in extracted material. Mounted on silo for storing material. The dust is separated with the NVF filter and collected in the container. The filter is cleaned automatically when the unit is switched off, or this can be done automatically with a timer.



**600A**

Specifically intended for extracting dust-containing granulates, sand, steel filings, slag and metal recovery. Model supplied with manual discharge valve. The model can be supplied with counterweight or pneumatic valves for automatic operations. The automatic NVF filter tolerates very high loadings and is cleaned every time the extractor is switched off.



**722A**

An extremely powerful vacuum unit for the collection of blasting grit and other granulated material. The combination of high maximum vacuum and powerful airflow enables the transport of material over long distances. Compact design built on a frame, for transport by forklift truck. Fitted with pre-separator. The cleaned material is collected in a silo and can be re-used.

## Stationary systems

Nederman are experts in stationary systems where the extraction points are linked to pre-separators, filters and vacuum units via a pipework system. We have been planning and designing stationary systems since 1970s and can offer a complete solution including the pipework system and its associated components. The most important details of a stationary system are:



Please contact Nederman for assistance in designing a system to meet your specific needs.

- Economical, extraction point, i.e. the point where the user connects his equipment (e.g. extraction from grinding machine, welding torch or cleaning equipment).
- Energy saving, valves; we offer everything from manual flap valves to automatic valves that open when a grinding machine or welding torch is in use and close it is switched off. They also start up the vacuum unit when needed and switch it off when nobody is using the system.
- Pipework system with matching pipe couplings and parts for suspending pipes.
- Pre-separator to handle coarse material that could stick in or abrade a long pipe system.
- Filters to handle fine dust.
- Control filters to protect the vacuum unit.
- Vacuum units – Nederman has a wide range of stationary vacuum units to cover every need.
- Control system; Nederman's PLC system handles signals from the extraction points to start or stop the vacuum unit. Functions to control filter cleaning, evacuation of the filter container and many other functions are of course included.

## VAC

High vacuum systems for welding extraction, on-torch or with nozzles. Dust extraction, on-tool grinding/sanding, floor cleaning. Vacuum unit with V-belt driven high-pressure fan. Equipped with

acoustic enclosure suitable for outdoor installation and as standard supplied with silencer, combined start-up/back flush valve and flow restrictor (VAC 20-4000 without flow restrictor).



## Vacuum Unit Vac

Model	VAC 20-1500	VAC 20-2500	VAC 20-3000	VAC 20-4000
Part no.	40103130	40103240	40103370	40103490
Part no. with anti surge control	40103131	40103251	40103371	40103491
Voltage, V	3x400	3x400	3x400	3x400
Frequency, Hz	50	50	50	50
Power, kW	22	30	37	45
Capacity at -20 kPa, m <sup>3</sup> /h	1500	2500	3000	4000
Max. flow at rated motor power, m <sup>3</sup> /h	2300	3000	3900	5000
Max. vacuum, kPa	-20	-22	-22	-22
Noise level (ISO 11201) indoor, dB (A)	66	70.5	68	68
Noise level (ISO 11201) outdoor, dB (A)	70,5	74.5	74.5	74.5
Weight, kg	530	560	620	620
Connection Ø inlet/outlet, mm	200/200	200/200	200/250	200/250
PLC starter (ordered separately)	PLC 4	PLC 5	PLC 6	PLC 7

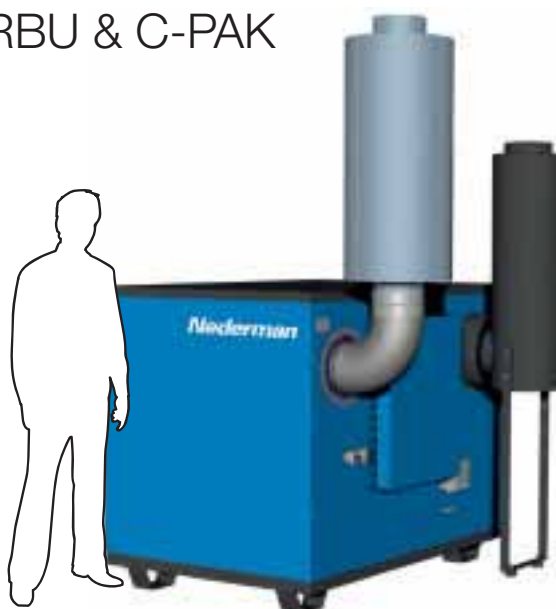
# High vacuum units RBU & C-PAK

## RBU

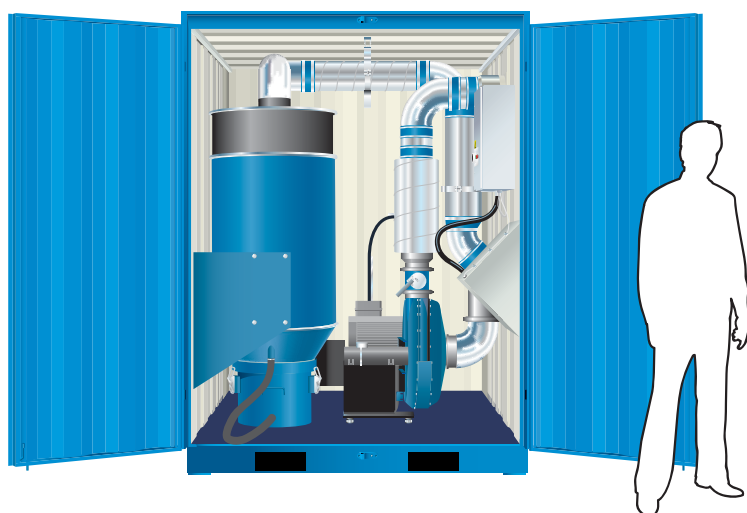
RBU units are used for cleaning, swarf removal, grinding, sanding, welding and in installations where extra extraction power is needed e.g. heavy material or long piping systems.

Powerful vacuum units with V-belt driven roots pump. Equipped with acoustic enclosure. As standard supplied with vacuum and discharge silencers, universal valve including vacuum regulator, safety valve and back flush valve.

Inlet Ø 200 mm. Discharge Ø 200 mm.



Model	RBU 1300	RBU 1600	RBU 1600 E	RBU 2100	RBU 2100 E	RBU 2600
Part no.	40103702	40103713	40103723	40103732	40103742	40103753
Voltage, V	3x400	3x400	3x400	3x400	3x400	3x400
Frequency, Hz	50	50	50	50	50	50
Power, kW	22	30	37	37	45	55
Capacity at -20 kPa, m³/h	1300	1600	1600	2100	2100	2600
Free blowing, m³/h	1650	2000	2000	2600	2600	3200
Noise level (ISO 11201), dB(A)	70	70	70	70	70	70
Max vacuum, kPa	33	33	45	33	45	45
Weight, kg	885	915	975	1115	1150	1220
PLC starter (ordered separately)	PLC 4	PLC 5	PLC 6	PLC 6	PLC 7	PLC 8



## C-PAK

Vacuum unit with V-belt driven high pressure fan. Fan unit, cyclone and starter are built into a heavy duty container. For welding extraction, on-torch or nozzles. Semiportable installations. Unit including Nederman FlexFilter cyclone for coarse separation. Manual start/stop. The units have four

Ø 100 mm (C-PAK 20-1500)/Ø160 mm (C-PAK 20-2500) vacuum inlets with connection flanges suitable for the Nederman PAK hose and coupler system. Flow restrictor and combined back flush/start-up valve is standard.

Model C-PAK	C-PAK 20-1500	C-PAK 20-2500
Part no.	40051110	40051210
Voltage, V	3x400	3x400
Frequency, Hz	50	50
Power, kW	30	37
Capacity at -20 kPa, m³/h	1500	2500
Max. flow at rated motor power, m³/h	3000	3900
Max vacuum, kPa	-22	-22
Noise level (ISO 11201), dB(A)	77	77
At discharge air side, dB(A)	87	87



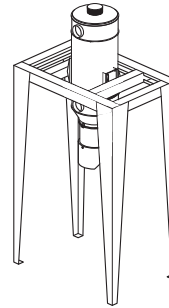
# High vacuum FlexFilters



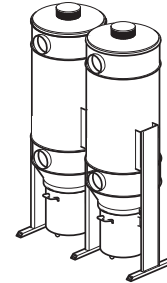
## FlexFilter

Dust collector with 2-stage filtration.  
Central inlet with velocity reducer.  
Fully automatic filter cleaning.  
Can easily be equipped with a great variety of filter materials, bins, emptying systems. Standard equipped with circular bags of polypropylene. PTFE or antistatic filters on request.

## FlexFilter standard models



FlexFilter Single with automatic emptying bin, high stand.



FlexFilter twin.

## FlexFilter

Model FlexFilter	FlexFilter Single	FlexFilter Twin	FlexFilter Single RF	FlexFilter Twin RF	FlexFilter Single with automatic emptying
Part no.	40118600	40118605	40118601	40118606	40118604
Capacity, m³/h	1600	3200	1600	3200	1600
Filter area, m²	12	2x12	12	2x12	12
Dustbin, liter	70	2x70	70	2x70	70
Weight, kg	184	344	218	399	305
Inlet / outlet, Ø mm	200	2x200	200	2x200	200

- Max air flow: 1600 m³/h.
- Max. vacuum: ~ 50 kPa.
- Separation: ~ 99.95% (fine dust).
- Inlet/outlet: Ø 200 mm.
- Bag type filters designed for dust, welding fume and debris.

## Accessories FlexFilter

Model	Filter alarm	Bin level indicator	Fire alarm	Twin inlet / outlet pipe
Part no.	40780641	40780710	40116540	40117630

## FlexFilter EX

A state of the art filter system to meet your current and future needs.

Keeping the work environment clean and safe minimizes the risk of explosion, maximizes your production up-time, increases your products' quality and gives significant cost savings. FlexFilter EX is the third generation high vacuum dust collectors for potentially combustible dusts. The unit complies with the ATEX directive.

## Explosive dust

A solid piece of any given material is normally safe and non explosive. However, creating a fine dust from the very same material could make it combustible; compare a solid piece of wood to wood dust! Furthermore the finer the dust particles are the more "explosive" they become! Many industries handle materials that are or can become explosive! When a combustible material is dispersed as a fine dust and combined with air and an ignition source the potential for a dust explosion increases.

## Protect your staff and increase efficiency

One of the hazards with explosive dust is that it settles on all surfaces within the facility. The settled dust once disturbed into the air as a result of an initial explosion, becomes the fuel for secondary explosions. An effective solution is to prevent dust from spreading around the workplace by capturing the dust at the source where it is generated, preventing it from spreading into the facility.

- Synthetic organic dust, such as plastic grinding dust, reinforced plastics and other composite materials, powder paint, cosmetics.
- Metal dusts – Fine dust of aluminium, magnesium, titanium, chromium.
- Organic dust from food industry, such as baking flour, soup powder, spices, sugar.
- Pharmaceutical – Large number of powders used in pharmaceutical industries are explosive.



# High Vacuum FlexFilter

Model	FlexFilter Single EX	FlexFilter Twin EX	FlexFilter Single EX High Stand	FlexFilter Twin EX High Stand
Part no.	40118931	40118961	40118941	40118981
Capacity, m <sup>3</sup> /h	1600	3200	1600	3200 m
Filter area main filter, m <sup>2</sup>	12	2x12	12	2x12
Filter area control filter, m <sup>2</sup>	12	2x12	12	2x12
Weight, kg	450	850	450	850
Dust bin, liter	70	2x70	TVFD and Bulk-bag or similar	TVFD and Bulk-bag or similar.
Inlet, mm	Flanged Ø 150	Flanged Ø 200	Flanged Ø 150	Flanged Ø 200
Outlet, mm	Ø 203,2	2 x Ø 203,2	Ø 203,2	2 x Ø 203,2tt

## Accessories FlexFilter EX

	Service platform for FlexFilter EX Single	Service platform for FlexFilter EX Twin	Connection kit for service platform	Ladder for service platform FlexFilter EX	Deflector	Twin RF kit	Differential Pressure Switch	Bin level indicator EX	Fire Alarm	Isolation valve Ø 160 mm	Isolation valve Ø 200 mm
Part no.	40375247	40375246	40375249	40375248	40375004	40375259	40375273	40375269	40116540	12374400	12374427

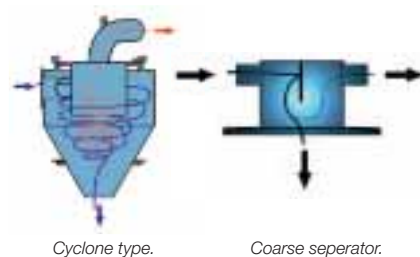
# High Vacuum Pre-separator

Nederman has developed a large number of separators for most materials.

In most systems for collecting and transporting material, it is important to separate the material before it reaches the filter. Both to take the load off the filter and to avoid transporting the material any further than necessary. Where the collected material is to be discharged into a sack or container or onto a conveyor belt, you can use cyclones to separate the material from the air stream. A simpler type of separation can occur with a coarse separator; this type of separation is used when you want to clean dust off the blasting grit, for example.

Contact Nederman for information about our complete range of pre-separators and cyclones.

- Separation/evacuation of material in large bags.
- Discharge of collected material onto conveyor belt, for example.
- Discharge of material directly into production machines.
- Separation of dust from granular material.

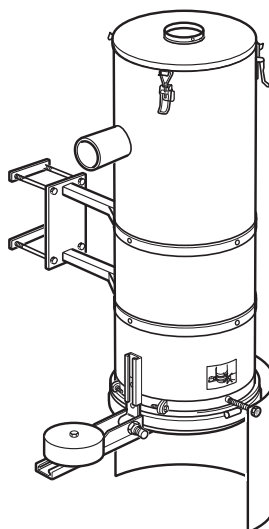


Cyclone type.

Coarse separator.

## KSA 70

Pre-separation of metal chips and cutting fluids or similar materials near the work station to prevent wear on the pipe system. The KSA 70 has a cyclone inlet with an internal wing for highest separation efficiency. The KSA 70 should be equipped with a valve at the outlet, controlled pneumatically or electrically. The bottom lid which opens downwards is kept closed by the vacuum when the top valve is open.

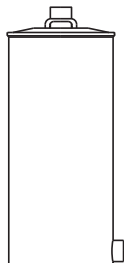


GA 500.

# High Vacuum Pre-separators

## GA 150 light material separator

Stationary pre-separator with straight inlet at the top and a replaceable textile filter sack. Used to separate coarse materials, light and larger objects, for example paper, textile, etc.



## GA 200 coarse material separator

The GA 200 consists of a steel lid with a built in inlet and outlet for connection to the pipe work. The lid can be placed over a standard size 200 litre oil drum with a diameter of 600 mm. To empty the unit, the vacuum must be switched off and the lid removed. The lid must be connected with flexible



hose. Pre-separation of coarse material, metal chips and cutting fluids. Note! Oil drum not included.

## GA 500

Stationary pre separator with cyclonic inlet and automatic emptying into for example a container. A perforated steel plate in the top of the separator prevents light weight objects from passing through the separator. The plate is automatically cleaned when the separator is emptied. A valve on the top opens to atmosphere and the air backflushes the separator, meaning that all material stuck in the perforated plate will fall down. A powerful pneumatic cylinder controls the movement of the base during emptying. The cylinder is controlled by a solenoid 5/2 valve on the GA 500. This valve is in turn controlled by the relay in the control cabinet. A pneumatic switch is also mounted on the GA 500. The switch "acknowledges" that the lid is closed before the back-flush valve TVS 200 is allowed to open.



## GA 800

The tippable GA 800 separates rough material before it enters the dust collector. It is particularly useful when there are large amounts of waste. The separator can be used for handling of metal chips, glass splinters, concrete, gravel, sand, etc. GA 800 is prepared for drainage valve which makes it easy to evacuate liquids from the container without letting any rough material out of the container.

	KSA70	GA150	GA200	GA500	GA800
Part no.	40110180	40110400	40110200	40110160	40 110 500
Capacity, m³/h	600	1000	800	3000	1600
Volume, liter	70	150	200	425	800
Inlet/outlet, Ø mm	100	100	100	200	150

# High Vacuum Starters

The starters are available in sizes from 11 kW to 55 kW. The starters are designed according to CENELEC EN 60 204-1 standard.

## Advanced starter

Equipped with functions like filter cleaning, service hour meter with warning function, week timer, summary alarms, automatic idling and automatic emptying control. The Advanced Starter is also prepared for anti surge control, remote start/ stop, compressed air switch, fire alarm, differential pressure switch (filters), bin level indicator etc.

Power package size	Part no.
PLC 1	40124400
PLC 2	40124410
PLC 3	40124420
PLC 4	40124430
PLC 5	40124440
PLC 6	40124450
PLC 7	40124460
PLC 8	40124470
PLC 9	40124480
PLC 10	40124490
PLC 11	40124500



# High vacuum accessories

## Extraction from grinding machines

### Mani-folds

A range of dust extraction manifolds to fit more than six hundred different hand tools is available. The system is suited for most grinding and cutting tasks. Can be coupled to hand-held electric and pneumatic tools. Nederman manifolds for grinding machines can be easily connected to a stationary system from Nederman or to one of our mobile dust collectors for maximum efficiency. Capturing the dust directly from the grinding machine prevents it from spreading, which significantly improves the working environment and in many cases the quality of production. For advice on which manifold set fits your particular tool, please contact Nederman.



## Extraction of welding fumes

### Extraction from welding torches

Many welding torches are now designed so the torch itself can easily be connected to the appropriate Nederman extraction unit to pick up most of the hazardous welding fumes. In other cases, Nederman nozzles for welding torches can be used; these are fitted to existing welding torches and are available in three different versions depending on the size of the welding torch.

Part no.	Size of welding torch	Connection hose
40403320	up to Ø 22 mm	Ø 38 mm
40403310	up to Ø 27 mm	Ø 38 mm
40403340	up to Ø 35 mm	Ø 50 mm

### Extraction from robot welders

Connection hose	Size	Recommended airflow	Part no.
Ø 32 or Ø 38	Ø 50 x 80 mm	200 m³/h	40403330

### Welding nozzles

Nederman welding nozzles are well suited for use together with a balancing arm, but are also available with a magnetic or suction foot; see accessories below. The CWN nozzle is silenced for optimum comfort.

Name	CWN-S 105/40	CWN-S 105/50L	CWN-S 105/63	CWN-S 105/50	FWN 200/50	FWN 400/50
Connection	M40	M50	M63	M50	M50	M50
Size, mm	Ø 105	Ø 105	Ø 105	Ø 105	200	400
Recommended airflow (m³/h)	200	250	400	250	250	250
Part no.	40290330	40290230	40290240	40290270	40290110	40290120



CWN-S 105/40  
CWN-S 105/50  
CWN-S 105/63



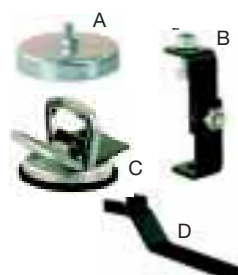
CWN-S 105/50 L



FWN 200/50  
FWN 400/50

### Accessories for welding nozzles

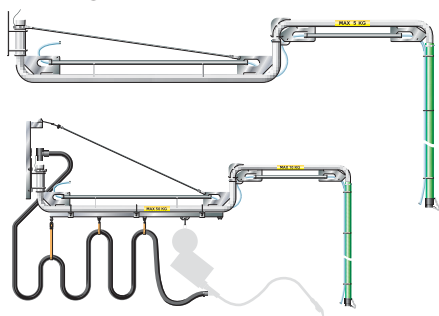
Description	Part no.
<b>A</b> Magnetic foot for all nozzles. Diameter 100 mm.	40290170
<b>B</b> Lifting bracket. Used to raise the nozzle. Fits all welding nozzles. N.B. Must be used for FWN nozzles mounted on balancing arms. Height: 100 mm.	40290200
<b>C</b> Suction foot for all nozzles for use when working with non-magnetic material. Diameter 115 mm.	40290180
<b>D</b> CWN-S hand grip. Mounted between extractor nozzle and balancing arm.	40070420





# High vacuum accessories Arms

## Swing arm



Nederman's pivoting arms are perfect for workplaces where the extraction point moves around. There are two different versions, SA-G and SA-GW, the first adapted for extraction from grinding machines and cleaning. The SA-GW is

also equipped to suspend cable feeds and is the perfect accessory for workplaces where welding, grinding and cleaning are all done. The arm is coupled to the fixed pipework system and can usefully be used together with Nederman automatic valves, TAV 50.

Name	SA-G 300	SA-G 450	SA-G 600	SA-GW 300	SA-GW 450	SA-GW 600
Range without hose, m	3	4,5	6	3	4,5	6
Hose couplers	F50 and F40	F50 and F40	F50 and F40	F50 and F40	F50 and F40	F50 and F40
Part no.	40181020	40181030	40181040	40181050	40181060	40181070

## Balance arm



The Nederman balancing arm with associated hose and nozzle is a good means of capturing welding fumes where an integrated extractor cannot be

used. Can be mounted on wall, bench or extension arm. Suitable for use together with the Nederman W hose, see page 158.

Name	BA 150	BA 250	BA 350
Working range, m	1,5	2,5	3,5
Part no.	40180000	40180010	40180020

## Extension arm with balance arm



To further increase the range, the balancing arm can be mounted on an extension arm, which can in turn be easily mounted on a wall.

Name	EA 250	EA 450
Length, m	2,5	4,5
Part no.	40180050	40180060

## PowerBox arm and PowerBox



Nederman's PowerBox with matching Powerbox arm is the perfect solution for workplaces that need extraction, electricity and compressed air. The PowerBox arm provides great range and flexibility,

and the PowerBox itself meets most needs in the workplace, as many electric and pneumatic grinding machines can be connected, and of course vacuum hoses.

	PowerBox basic	PowerBox EUR	PowerBox FR	PowerBox 16 EUR	PowerBox 32 EUR
Vacuum connection, mm	2 x Ø 38	2 x Ø 38	2 x Ø 38	2 x Ø 38	2 x Ø 38
Compressed air outlet regulated	2 x 1/4"	2 x 1/4"	2 x 1/4"	2 x 1/4"	2 x 1/4"
Compressed air outlet unregulated	1 x 1/4"	1 x 1/4"	1 x 1/4"	1 x 1/4"	1 x 1/4"
1-phase extraction	-	2 x 230V 10/16A	2 x 230V 10/16A	2 x 230V 10/16A	2 x 230V 10/16A
3-phase extraction	-	-	-	1 x 400V 16A	1 x 400V 32A
Part no.	40186540	40186550	40186570 (40186600)	40186580	40186590

## Accessories, PowerBox

Festool adapter to connect Festool machines to the PowerBox, Part no. 40850806.

To mount the Power-Box on a wall, part no. 40374578.



## PowerBox arm

PowerBox arm	Length, m	Part no.
PowerBox arm	6	40180420



# High vacuum accessories

## Cleaning system

- The 38 mm cleaning unit is flexible and easy to handle, and is mainly used for light cleaning of fine dust.
- 51 mm cleaning unit used for heavier cleaning, such as swarf and heavy industrial materials.
- 63 mm cleaning unit used for the heaviest applications, such as collecting blasting grit, casting sand etc. where a small pressure drop across the hose is important.

Nederman offers a wide range of cleaning equipment in three sizes: 38 mm, 51 mm and 63 mm. The dimension refers to the inside diameter of the hose being used.



### Floor cleaning system, light duty Ø 38 mm connected to F40 coupling see page 159

Width, mm	Part no. Complete	Floor nozzle	Cleaning pipe	Elbow
370	40376036	40193470	40376015	40195960
450	40376037	40193490	40376015	40195960



**Ex**

Nederman's hose reels for vacuum hoses are presented on page 185.

- Floor nozzle in aluminium with wheels and interchangeable rubber lip/brush.
- Simpler plastic nozzle, 370 mm, for easy cleaning. Part no. 40195910.

### Hand nozzles connected to F40 coupling see page 159



	Description	Part no.
1	Extended brush, 169 x 54 mm.	40190020
2	Brush, blue (hygiene), food industry.	40190030
3	Round rubber brush with swivel top.	40193080
4	Circular crevice nozzle in plastic. Length: 360 mm. Width: 45 x 10 mm.	40193090
5	Circular crevice nozzle in steel Length: 310 mm. Width: 55 x 15 mm.	40193620
6	Rubber nozzle for confined spaces. Length: 230 mm. Width: Ø 32-38 mm.	40193130
7	Rubber nozzle for confined spaces. Length: 230 mm. Width: Ø 25-32 mm.	40193110

### Hand nozzles connected to Ø 40 mm pipe



	Description	Part no.
8	Pipe brush for Ø 200 mm pipe.	40195920
9	Pipe brush for Ø 100 mm pipe.	40195930
10	Plastic crevice nozzle with notches. 135 x 40 mm.	40193660
11	Circular crevice nozzle in plastic. 100 x 15 mm.	40193600
12	Circular crevice nozzle in plastic. Inlet can be cut to Ø 20-35 mm.	40193570

# High vacuum accessories

## Cleaning system

### Floor cleaning system Ø 51 mm connected to SF51 coupling see page 159

51 mm cleaning unit used for heavier cleaning, such as swarf and heavy industrial materials. All components are electrically conductive

- Floor nozzle with wheels and interchangeable rubber lip
- Wet suction
- Antistatic

- Floor nozzle with exchangeable rubber lip
- Wet suction
- Antistatic

- Floor nozzle with exchangeable brush
- Dry extraction
- Antistatic



Width, mm	Part no. Complete	Floor nozzle	Cleaning pipe L=1100 mm	Elbow
400	42932000	43840100 small nylon wheels	43842001	43842150
500	42932100	43840150 small nylon wheels	43842001	43842150
600	42932200	43840200 small nylon wheels	43842001	43842150
400	-	43840250 large rubber wheels	43842001	43842150
500	-	43840300 large rubber wheels	43842001	43842150
600	-	43840350 large rubber wheels	43842001	43842150



Width, mm	Part no. Complete	Floor nozzle	Cleaning pipe L=1100 mm	Elbow
400	42932500	43840500 without wheels	43842001	43842150

Width, mm	Part no. Complete	Floor nozzle	Cleaning pipe, L=1100 mm	Elbow
400	42932800	43840550 without wheels	43842001	43842150

### Hand nozzle connected to SF51 swivelling coupling see page 159



Coupling F50 can also be connected, but without swivel function. With the F50 together with adapter 40151300, the hand nozzles on page 154 can also be connected.






1	Hand nozzle	Hard brush	Soft brush
	Part no.	43860001	43860200
	Ø, mm	90	90
2	Toothed nozzle		
	Part no.	43861001	
	Width, mm	130	
3	Cone nozzle		
	Part no.	43862001	
	Length, mm	250	
4	Scraper nozzle		
	Part no.	43851150	43851050
	Length, mm	1000	500
5	Bulk nozzle		
	Part no.	43850001	
	Length, mm	910	
6	Bulk nozzle for floor		
	Part no.	43850150	
	Length, mm	1200	
7	Pipe nozzle fits Ø 51 mm pipe	Ø 100 mm pipe	Ø 200 mm pipe
	Part no.	43863001	43863100
8	Steel swarf nozzle, Ø 50 mm. Silenced inlet. Fits Ø 51 mm hose		
	Part no.	40150030	

# High vacuum accessories Cleaning system

## Floor cleaning system, heavy duty Ø 63 mm

63 mm cleaning unit used for the heaviest applications, such as collecting blasting grit, casting sand etc. where a small pressure drop across the hose is important.

- Antistatic.
- Durable aluminium.
- Interchangeable rubber seal in elbow.
- Swivelling hose connection.

					
Width, mm	Part no. Complete	Floor nozzle	Cleaning pipe, L=1000 mm	Reinforced elbow	Swivel
500	42930000	43840400	43843001	43843050	43843100
600	42930100	43840450	43843001	43843050	43843100

## Bulk nozzle, Ø 63 mm



1	Scraper nozzle		
	Part no.	43851200	43851100
	Length, mm	1000	500
	Connection	Ø 63 mm hose	Ø 63 mm hose
2	Bulk nozzle		
	Part no.	43850050	43850051
	Length, mm	910	910
	Connection	Ø 63 mm hose	Fits swivel 43843100, Ø 63 mm
3	Bulk nozzle for floor		
	Part no.	43850200	
	Length, mm	1200	
	Connection	Ø 63 mm hose	

## Bulk nozzle, Ø 76 mm



1	Scraper nozzle		
	Part no.	43851250	
	Length, mm	1000	
2	Bulk nozzle		
	Part no.	43850100	
	Length, mm	910	
3	Bulk nozzle for floor		
	Part no.	43850250	
	Length, mm	1200	



	Description	Part no.
1	Hose shelf, 10 m, Ø 50 mm.	40195452
2	Shelf for approx. 10 m, Ø 38 mm hose with accessory basket. Suspending fork for floor cleaning equipment.	40196370



# High vacuum accessories Suction hose



## Suction hose PU 12

Application areas: Robust hose, smooth inside. Suitable for transport abrasive of material such as blasting grit, swarf and glass fibre dust. Very good resistance to wear and ageing. Good resistance to fuels, oils, solvents, chemicals and grease.

- Transparent polyurethane hose,  $t = 1.2$ .
- Reinforced with embedded steel helix.
- Temp. range:  $-40^{\circ}$  to  $+90^{\circ}$  °C.



## Suction hose PE/C

Application areas: Light and flexible extraction hose. Mainly suited for cleaning and where exceptional conductivity for static electricity is required.

- Temp. range:  $-40^{\circ}$  to  $+60^{\circ}$  °C.
- Max. vacuum 50 kPa.
- Conductivity  $< 10^6 \Omega$ .
- Smooth bore conductive hose.



## Suction hose PE

Application areas: Single suction hose, mainly intended for simple cleaning. The hose is not conductive.

- Temp. range:  $-40^{\circ}$  to  $+60^{\circ}$  °C.
- Max. vacuum 50 kPa.

Ø, mm	Length, m	Bend radius internal mm	Max. vacuum kPa at $23 \pm 2^{\circ}$ °C	Part no.
38	5	50	95	43831018
38	10	50	95	43831019
38	20	50	95	43831001
51	5	60	93	43832500
51	7,5	60	93	43832102**)
51	10	60	93	43832200**)
51	10	60	93	43832600
51	20	60	93	43832300
63	5	75	75	43833200
63	10	75	75	43833001
63	20	75	75	43833100
76	10	103	61	43834200
76	20	103	61	43834300
102	10	136	40	43835001
152	10	196	20	43836001

Ø, mm	Length, m	Part no.
25	15	40160305
32	5	40160311
32	10	40160313
32	15	40160315
38	5	40160321
38	5	43811001*)
38	10	40160322
38	15	40160323
51	5	40160331
51	7,5	43812103**)
51	10	40160334
51	15	40160333
51	30	40160335
63	5	40375954
63	10	40375955
63	15	40375787

\*) Incl. couplings Ø 51 mm male coupling 43930102 and Ø 38 mm female coupling 43819011.

\*\*) Incl. Ø 51 mm couplings 43930101 and 43930102.

Ø, mm	Length, m	Part no.
25	10	40160712
32	5	40375953
32	10	40160722
38	5	40160731
38	10	40160733
38	20	40160735
51	5	40160741
51	10	40160743
51	20	40160745



## Hose clip

Ø, mm	Part no.
22-32	40376019
32-44	40376020
38-50	40376021
50-65	40376022
58-75	40376023
68-85	40376024
77-95	40376025
87-112	40376026
104-138	40376027
130-165	40376028
150-180	40376029
175-205	40376030
200-231	40376031
230-250	40376032
050-135	40376033
060-325	40376034

## High vacuum accessories Suction hose

### Suction hose FS



Ø, mm	Length, m	Part no.
25	15	40160102
32	15	40160152
38	15	40160202
44	15	40160223
51	15	40160252
63	15	40160263

Application areas: Flexible hose with steel helix to discharge static electricity. Mainly used for extraction from hand tools and balance arms.

- Temp. range: 0 to +80 °C.
- Max. vacuum 60 kPa.

### Suction hose FS kit



Type of hand-held tool	Part no.
Suction hose	Compressed air hose Ø mm
For pneumatic tools	
FS-25	Ø 8
FS-25	Ø 10
FS-32	Ø 10
FS-32	Ø 13
FS-32	Ø 8
FS-38	Ø 10
FS-38	Ø 13
FS-38	Ø 16
For electrical tools	
FS-25	-
FS-32	-
FS-38	-

Hose set. Length 1.8 m

#### Pneumatic tools:

Set comprises compressed air hose, suction hose, coupling M40-xxP and mounting elements.

Compressed air nipple not included

#### Electrical tools:

Set comprises suction hose and coupling M40-xxP.

### Suction hose W



Ø, mm	Length, m	Part no.
44	5	40376009
44	10	40376010
44	20	40161283
51	5	40376011
51	10	40376012
51	20	40161253
63	5	40376013
63	10	40376014
63	20	40161263

Application areas light and flexible plastic hose. Mainly used for extraction of fumes from welding torches with integrated extractor or nozzle.

### Suction hose PVC



Application areas: Robust oil-resistant hose, smooth inside. Very good resistance to wear and ageing. Good resistance to fuels, oils, solvents, chemicals and grease. Technical data:

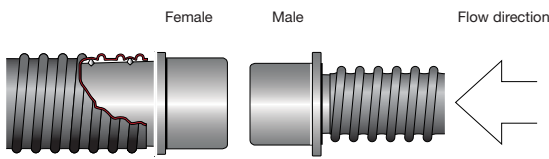
Blue PVC hose, t = 1.2 Reinforced with embedded steel helix.

- Temp. range: -20° to +70 °C.

Ø, mm	Length, m	Bend radius internal mm	Max. vacuum kPa at 23 ±2°C	Part no.	
51	7,5	60	84	43822600	*)
51	10	60	84	43822200	*)
51	30	60	84	43822300	

\*) Incl. Ø 51 mm couplings 43930101 and 43930102.

# High vacuum accessories Hose couplers



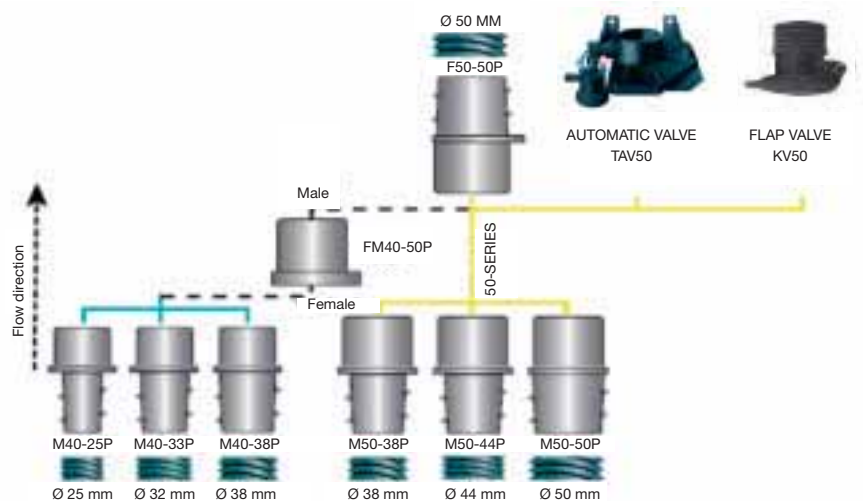
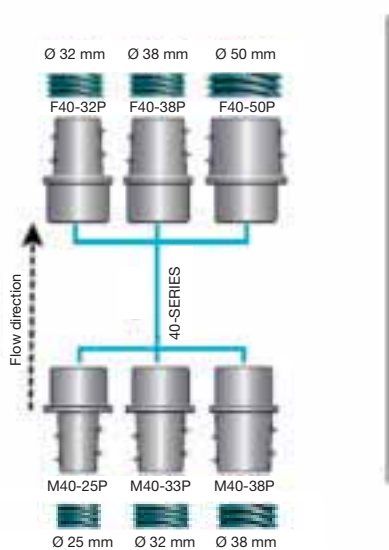
The hose coupler system is available in a wide range to suit most hose diameters commonly used. The couplers are made from electrically conductive plastic material and are available in two diameters of the tapered coupler section 40 and 50 mm. Using the couplers makes it very easy to connect/disconnect the vacuum hose simply by turning-pushing or turning-pulling. 50 mm couplings fit directly into the flap valve KV50 and automatic valve TAV50. To connect 40 mm couplers to either 50 mm couplers or to the above mentioned valves an adapter is used.

## Hose couplers, Ø 40 mm

Model	Type	Hose Ø, mm	Part no.
<b>M40-25P</b>	Male coupling	25	40151070
<b>M40-32P</b>	Male coupling	32	40151060
<b>M40-38P</b>	Male coupling	38	40151050
<b>F40-32P</b>	Female coupling	32	40151040
<b>F40-38P</b>	Female coupling	38	40151010
<b>F40-50P</b>	Female coupling	50	40151020

## Hose couplers, Ø 50 mm

Model	Type	Hose Ø, mm	Part no.
<b>M50-38P</b>	Male coupling	38	40151110
<b>M50-44P</b>	Male coupling	44	40151120
<b>M50-50P</b>	Male coupling	50	40151100
<b>F50-50P</b>	Female coupling	50	40151030
<b>FM40-50P</b>	Adapter	-	40151300
<b>M50-63S</b>	Male coupling (steel)	63	40151130
<b>M50-44S</b>	Male coupling (steel)	44	40151140



## Hose couplers, Ø 51 mm, swivelling

This series of hose couplings and flap valves fits 51 series cleaning equipment, swivels and fits most of the mobile vacuum units as standard.

Model	Type	Hose Ø, mm	Part no.
<b>SM51<sup>*)</sup></b>	Male coupling	51	43930102
<b>SF51</b>	Female coupling	51	43930101
<b>SV51</b>	Flap valve	51	43885001

<sup>\*)</sup> The SM51 can also be connected to a flap valve KV 50 without a swivel function.

# High vacuum Pipe system



## Pipes Galvanised steel pipes, used as main pipes.

Ø, mm	Part no.	L mm	Thickness, mm	Weight, kg
50	40130440	3000	1,2	5,5
50	40130450	6000	1,2	10,9
63	40130420	3000	1,2	5,5
63	40130430	6000	1,2	11,0
76	40130400	3000	1,0	5,6
76	40130410	6000	1,0	11,1
100	40130380	3000	1,2	8,8
100	40130390	6000	1,2	17,5
127	40130360	3000	1,0	9,3
150	40130340	3000	1,0	11,0
150	40130350	6000	1,5	33,0
200	40130330	6000	1,5	44,0



## Bends, 90° Galvanised steel bends.

Ø, mm	Part no.	Centre radius, mm	Thickness, mm	Weight, kg
50	40130790	85	1,5	0,3
63	40130780	100	1,5	0,5
76	40134020	170	1,5	1,0
100	40131070	200	2,0	2,0
127	40134000	170	2,0	2,1
150	40130750	225	2,0	3,2
200	40134251	300	2,0	4,8



## Bends, 45° Galvanised steel bends.

Ø, mm	Part no.	Centre radius, mm	Thickness, mm	Weight, kg
50	40130840	85	1,5	0,2
63	40134100	100	1,5	0,3
76	40134030	170	1,5	0,7
100	40131080	200	2,0	1,2
127	40134010	170	2,0	1,4
150	40134340	225	2,0	2,1



## Reinforced steel bends, 90° Steel bends with swarf box.

Ø, mm	Part no.	Centre radius, mm	Thickness, mm	Weight, kg	X mm	Y mm
63	40134201	100	1,5	1,5	265	115
100	40134221	200	2,0	4,9	400	185



## Reinforced steel bends, 45° Steel bends with swarf box.

Ø, mm	Part no.	Centre radius, mm	Thickness, mm	Weight, kg	X mm	Y mm
63	40134301	100	1,5	1,0	185	35
100	40134321	200	2,0	3,8	260	45



# High vacuum Pipe system

## Reinforced branch pipes Branch pipes with swarf box.

Ø, mm	Part no.
63-63-63	40134101
100-100-63	40134121
100-100-100	40134131



## Branch pipes Galvanised branch pipes. Used to join vacuum pipes together or connect a suction pipe. 45° branch.

Ø, mm	Part no.	Length, mm	Thickness, mm	Weight, kg
50-50-50	40130650	150	1,5	0,4
63-63-63	40130660	180	1,5	0,6
76-76-63	40135650	280	1,5	1,0
76-76-76	40135640	270	1,5	1,0
100-100-63	40130600	280	2,0	1,4
100-100-76	40135630	300	2,0	1,8
127-127-76	40135620	300	2,0	2,2
127-127-100	40135610	350	2,0	2,8
150-150-150	40134150	400	2,0	4,0



## Branch pipes, parallel Galvanised branch pipes. Used to join vacuum pipes together. Parallel branch.

Ø, mm	Part no.	Length, mm	Thickness, mm	Weight, kg
100-100-100	40130630	350	2,0	2,8
150-150-100	40130640	330	2,0	3,0



## Reducer

Ø, mm	Part no.	Length, mm	Thickness, mm	Weight, kg
100-63	40130710	125	1,5	0,6
150-100	40130700	145	2,0	1,1



Ø, mm	Part no.	Length, mm	Thickness, mm	Weight, kg
63-50	40130730	67	1,5	0,2
76-50	40135750	70	1,5	0,2
76-63	40135740	75	1,5	0,2
100-76	40135830	120	1,5	0,4
127-76	40135820	120	2,0	0,6
127-100	40135810	120	2,0	0,7
150-127	40135800	120	2,0	0,8
200-150	40130020	150	2,0	1,4



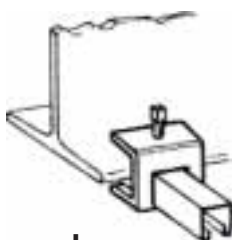
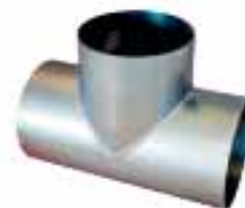
# High vacuum Pipe system

**Flanged pipes** To be installed between filter and isolation valve.

Model	Ø mm	Part no.
Flanged pipe, 1 m	200	40375260
Flanged pipe, 1 m	150	40375263
Flanged bend 90°	200	40375261
Flanged bend 90°	150	40375264
Transition flanged pipe	200	40375262
Transition flanged pipe	150	40375265

**T-pipe** Galvanised pipe branch used between dust separator and vacuum unit for parallel connection.

Ø, mm	Part no.	Length, mm	Thickness, mm	Weight, kg
150-150-150	40130120	250	2,0	4,4
200-200-200	40130210	300	2,0	6,1



## Beam clamps

Used in pairs to fix universal profiles to beams where drilling is not permitted/possible. Beam flange: max. 25 mm.

Part no.
40170250



## End cover

Used to block the end of a pipe.

Ø, mm	Part no.
50	40130031
63	40130030
100	40130040
150	40130050
200	40130060



## Pipe clamp

Used to suspend pipes together with universal bracket or profile. In two halves, bolt and nut.

Ø, mm	Part no.
50	43883300
63	40170170
76	40170180
100	40170190
127	40170230
150	40170210
200	40170220



## Universal bracket

For suspending pipes.

Length, mm	Part no.
150	40170010
300	40170020
450	40170030



## Universal bracket

For suspending wall-mounted pipes.

Length, mm	Part no.
100	40170060
300	40170070
2000	40170080



## Pipe coupling

Used to join pipes together. The rubber is electrically conductive.

Ø, mm	Part no.
50	43884001
63	40139350
76	40139420
100	40139370
127	40139410
150	40139360
200	40139400

# High vacuum Valves

Automatic and manual vacuum valves, Ø 50 mm

## TAV 50 valves

The TAV 50 valves maximise the efficiency of your high vacuum system. Because the valves can be opened and closed automatically, the vacuum is always concentrated on the connections, extraction points or machines in operation at the time. This maximises the power of extraction, produces lower operating costs and minimises the size of the vacuum unit.

- Lower operating costs and smaller vacuum equipment
- Lower noise level on the premises
- Conductive plastic material

## Description of ATEX models

Depending on the variant and the application area, many of the TAV 50 units are marked according to the ATEX Directive with the EX symbol and equipment category. All TAV 50 variants with the EX symbol are category 3D equipment according to Directive 94/9/EC. That means that these variants can be placed in zone 22 pursuant to Directive 1999/92/EC.

The manually controlled TAV 50 MA is suitable for installation within the classified area (zone 22) even though it is not marked with the EX symbol. Manually controlled equipment does not fall under Directive 94/9/EC (ATEX), so this valve is not marked with the EX symbol.



Other valves without the EX symbol (W, G and AC/DC valves) are not suitable for ATEX and so should not be installed within the classified area. See table of part numbers below, where EX is included in the name, to see which are suitable for the classified area.

- Valve requires a clean dry compressed air supply.
- Recommended pressure: 0.6-0.7 MPa (6-7 bar).
- Max. permissible pressure: 1.0 MPa (10 bar).
- Min. pressure (for safe operation): 0.5 MPa (5 bar).
- Working temperature: 0° +40 °C.
- Connection: inside diameter 51 mm, outside diameter 63 mm.
- Max vacuum: -50kPa.

Part no.	Description
40060100	TAV 50 FV EX
40060120	TAV 50 MV-G*)
40060130	TAV 50 FV/MV-G*)
40060110	TAV 50 MV-W **)
40060140	TAV 50 FV/MV-W **)
40147040	TAV 50 FV/MV 24V DC EX
40147090	TAV 50 FV/MV 24V AC/DC
40147120	TAV 50 FV/MV 115V AC EX
40147100	TAV 50 FV/MV 230V AC EX
40147071	TAV 50 MV 24V DC EX
40147050	TAV 50 MV 24V AC/DC
40147110	TAV 50 MV 115V AC EX
40147060	TAV 50 MV 230V AC EX
40147020	TAV 50 MA
40147030	TAV 50 PC EX

\*) Coupling box with current detecting relay included as standard. Requires 230V AC.

\*\*) Requires 24 V AC from transformer (accessory) which may be shared by several valves.



**TAV 50 FV**

Used for pneumatic tools. The valve opens automatically when the tool is activated.



**TAV 50 MV-G**

Used for electrical tools. The valve opens automatically when the tool is activated.



**TAV 50 MV-W**

Used for welding torches. The sensor ring detects the current and the valve opens automatically when the welding torch is activated.



**TAV 50 PC**

This valve is intended for direct control with a compressed air signal from e.g. a 3-port valve (accessory).



**TAV 50 MA**

This valve is controlled with a manual hand grip and is used where there is no need for automatic control.

**TAV 50 FV/MV-G**








A combination valve that can be used for electric and/or pneumatic tools. The valve opens automatically when the tool is activated.

**TAV 50 FV/MV-W**

A combination valve that can be used for welding torches and pneumatic tools. The valve opens automatically when the welding torch is activated.

*N.B. All valves require micro-switch, AS set (accessory) for automatic start/stop of vacuum unit.*

# High vacuum Valves

	Designation	Description	Part no.
	AS set	AS set with micro-switch for automatic start/stop of vacuum unit.	40141550
	Current-detecting relay	Coupling box with current-detecting relay to hand-held electric tools, 110-240V AC. Max. 16 A. Included as standard in TAV 50 MV-G and TAV 50 FV/MV-G.	40780260
	Transformers	230/24 V AC, 60VA transformer for sensor ring on welding torches. One transformer can feed up to 12 TAV valves at 5 VA each. Suitable for TAV 50 MV-W and TAV 50 FV/MV-W.	40750100
	3-port valve	3/2-port pneumatic control valve (rocker) for control of single-action cylinder. Suitable for TAV 50 PC. Set includes couplings and hose (6/4 mm, 25 m).	40680280
	Non-return choke valve G 1/8"	Choke valve for delayed closure of TAV 50 FV and TAV 50 FV/MV valves. Max. delay: 10 seconds, G1/8" thread.	40617910
	Choke valve M5	Choke valve for delayed closure of TAV 50 MV valves. Max. delay: 3 seconds, M5 thread.	40617520
	Activator	Pneumatic activator for TAV 50 FV and TAV 50 FV/MV valves. Activates the valve and enables applications other than extraction from pneumatic or electric tools, such as floor cleaning.	40190010

## Flap valve, Ø 50 mm, KV 50

The flap valve KV 50 can be mounted on suction pipes or vacuum hoses. The valve is well suited to welding, cleaning and grinding where automatic valves are not required. The flap valve is made of electrically conductive plastic material. Male coupling Ø 50 mm fits directly into the flap valve.



Part no.	Designation	Description
40146450	KV 50	Flap valve for mounting on steel pipe.
40146455	KV 50-HC	Flap valve with 50 mm hose coupling for mounting on hose.
40141550	AS set	AS set with micro-switch for automatic start/stop of vacuum unit.



# High vacuum Valves

Automatic and manual vacuum valves, Ø 100 mm and Ø 150 mm



## Application areas:

The TAV 100 and TAV 150 valves are mainly used as shut-off valves in the main branches of the pipework system.

## Description of ATEX models

Depending on the variant and the application area, many of the TAV 100 and TAV 150 units are marked according to the ATEX Directive with the EX symbol and equipment category. All TAV 100 and TAV 150 variants with the EX symbol are category 3D equipment according to Directive 94/9/EC. That means that these variants can be placed in zone 22 pursuant to Directive 1999/92/EC.

The manually controlled TAV 100 MA and TAV 150 MA are suitable for installation within the classified area (zone 22) even though they are not marked with the EX symbol. Manually controlled equipment does not fall under Directive 94/9/EC (ATEX), so these valves are not marked with the EX symbol.

Other valves without the EX symbol (AC/DC valves) are not suitable for ATEX and so should not be installed within the classified area. See table of part numbers below, where EX is included in the name, to see which are suitable for the classified area.

- Valve requires a clean dry compressed air supply.
- Recommended pressure: 0.6-0.7 MPa (6-7 bar).
- Max. permissible pressure: 1.0 MPa (10 bar).
- Min. pressure (for safe operation): 0.5 MPa (5 bar).
- Working temperature: 0° +40 °C.
- Connection: 102 mm or 150 mm.
- Max vacuum: -50kPa.



## TAV 100 valves

Part no.	Description
40146082	TAV 100 MV 24V DC EX
40146081	TAV 100 MV 24V AC/DC
40146083	TAV 100 MV 115V AC EX
40146080	TAV 100 MV 230V AC EX
40146030	TAV 100 PC EX
40146010	TAV 100 MA

## TAV 150 valves

Part no.	Description
40146102	TAV 150 MV 24V DC EX
40146101	TAV 150 MV 24V AC/DC
40146103	TAV 150 MV 115V AC EX
40146100	TAV 150 MV 230V AC EX
40146060	TAV 150 PC EX
40146040	TAV 150 MA

*N.B. All valves require micro-switch, AS set (accessory) for automatic start/stop of vacuum unit.*

## Accessories TAV 100/150

Designation	Description	Part no.
AS set	AS set with micro-switch for automatic start/stop of vacuum unit.	40141550
Pressure sensor	Pressure sensor for automatic start/stop of TAV 100/150 PC and MV models. N.B. Does not fit MA models.	40141780
5-port valve	5/2-port pneumatic control valve (rocker) for control of double-action cylinder. Suitable for TAV 100 and TAV 150. Set includes couplings and hose (6/4 mm, 25 m).	40680250

# High vacuum Spare parts & consumables

## Mobile dust collectors

For more information about our complete range of spare parts, please visit our website.

Model	Part no.	Filter standard*	Plastic bag
160E	40055000	40114250	40110870
115E	42411581	43110100	
115A	42111585	43110100	
115A EX	42211500	43110200	
300E	40055400	40119951	40115011
216E	42421681	43120100	
216A	42121692	43120100	
216A EX	42221639	43120200	
306E	42430606	43110100	
306A	42130602	43110100	
426E	42442605	43120100	
426A	42142606	43120100	
426A EX	42242609	43120200	
500E	42450002	43110300	
500A	42150085	43110300	
500A EX	42250016	43110400	
510E	42451002	43110300	
510A	42151086	43110300	
510A EX	42251035	43110400	
570A	42157087	43906010 (filter), 43908005 (nut), 43901013 (O-ring)	
30S	40055800	40114160	40115011
55S	40056000	40114180	40115011
680S	42468072	43120100 43130001	



160E



500A  
500E  
500A EX

For more on mobile dust collectors, see pages 139-143.



570A



E-PAK

For more on compact dust collectors, see pages 144-146.

## FlexFilter EX

Model	Part no.
Conductive plastic bag (20 pcs)	40118800
Conductive big bag (25 pcs)	40375271
Main filter antistatic	40119870
Control filter insert	40375270

## Fume Eliminator 840/841

Product Part no.	Filter cartridge Replacement part no.	Hose Replacement part no.	Hose connection Replacement part no.
7084000	70324000	70400022	70410002
70841000	70324000	70400022	70410002

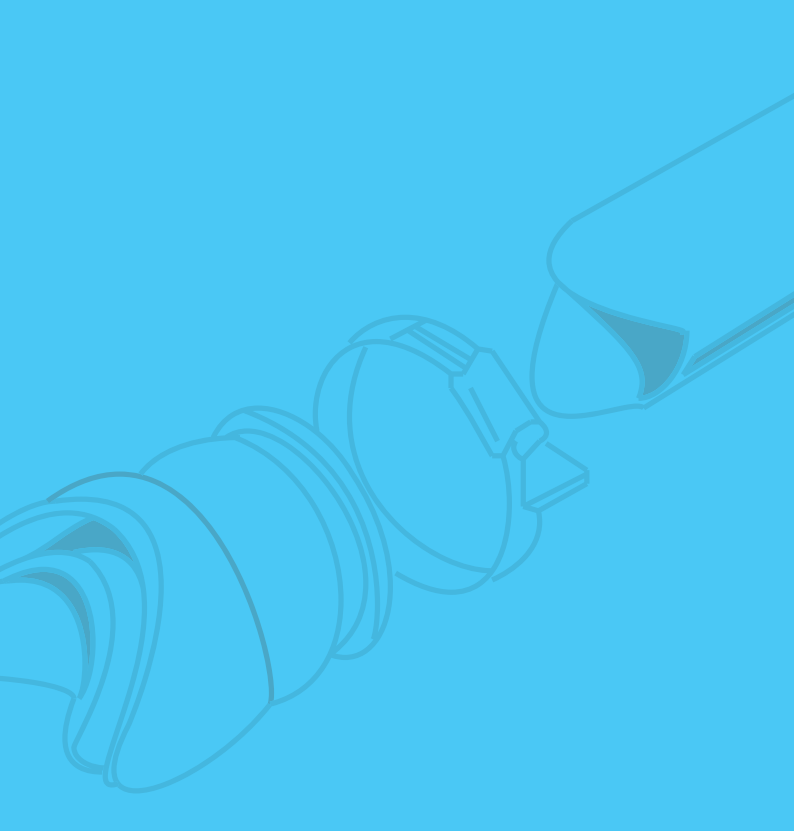
## Compact dust collectors

Model	Part no.	Filter standard*	Plastic bag
L-PAK 150	40051900	40114160	40115010
L-PAK 250	40051800	40114180	40115010
E-PAK 500	40051430	40111710	40375003
FlexPAK 800	40050170	40119880	40375003
FlexPAK 1000	40050180	40119880	40375003
450A	42145018	43906010 (filter), 43908005 (nut), 43901013 (O-ring)	
471A	42147104	43906010 (filter), 43908005 (nut), 43901013 (O-ring)	
600A	42160081	43906011 (filter), 43908005 (nut), 43901013 (O-ring)	
722A	42172207	43906011 (filter), 43908005 (nut), 43901013 (O-ring)	

## FlexFilter

Description	Part no.	Plastic bag 70l (25Pcs)	Filter Polypropylene	Filter PTFE	Filter Antistatic
Flexfilter single	40118600	40375003	40119850	40119860	40119870
Flexfilter single RF	40118601	40375003	40119850	40119860	40119870
Flexfilter twin	40118605	40375003	2x40119850	2x40119860	2x40119870
Flexfilter twin RF	40118606	40375003	2x40119850	2x40119860	2x40119870
Flexfilter single AEB	40118604	-	40119850	40119860	40119870

\* For spare parts for other than standard models, contact Nederman.



## DUST-FREE BLASTING



### Vacuum blasting – for safe working in a dust-free environment.

Paint, surface coatings, glue and sealants contain substances like isocyanates and polyurethane. When a treated surface is heated, e.g. by blasting, these are released and may reach levels sufficiently high to cause asthma. With dust-free blasting, workers have the necessary protection without any cumbersome equipment. Nederman vacuum blasters can be used both outdoors and in enclosed spaces where normal blasting is not allowed. Because the blasting is dust-free, there is no need for a special blasting room. The dust generated is extracted immediately and constantly together with the grit, to be re-used in a closed process.

Nederman vacuum blasters:

- Mobile with high productivity
- Powerful vacuum and high filtration efficiency
- Reuses grit

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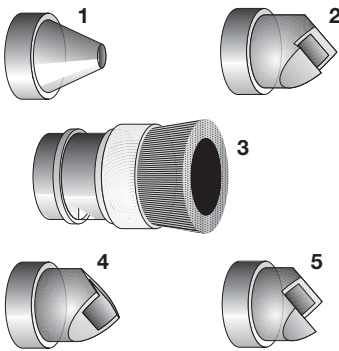
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# Vacuum blaster SB 750

- Lower cost by recovering grit.
- Built-in filter for minimum airborne dust.
- The closed blasting process does not affect other activities in your workshop.

SB 750	
Part no.	70750070
Weight, kg	14
Voltage, V	230
Power, W	1000
Compressed air consumption, l/min	500

Blasting is the simplest and most effective way to remove rust, old paint and other materials from various surfaces. The Nederman vacuum blaster is a clean, dust free vacuum blaster that leaves the surface cleaned and well prepared for auto bodywork filling and painting etc. The grit is recycled and can be reused many times over. The SB 750 vacuum blaster is suitable for smaller-scale and lighter work.



## Nozzles for SB750

Nozzle type	Description	Part no.
1	Nozzle for spot areas.	70579960
2	Nozzle for edges.	70579963
3	Brush nozzle (included in Suction Blaster 750)	70101402
4	Nozzle for inside corners.	70579961
5	Nozzle for outside corners.	70579962



# Vacuum blaster

Ab418/Bb418 and Ab460/Bb460



Bb418  
Electric  
unit

Nederman vacuum blasters have superior suction and filtration efficiency and provide for quick and effective work in a dust-free environment. The vacuum blaster is fitted with an automatic filter cleaning system.

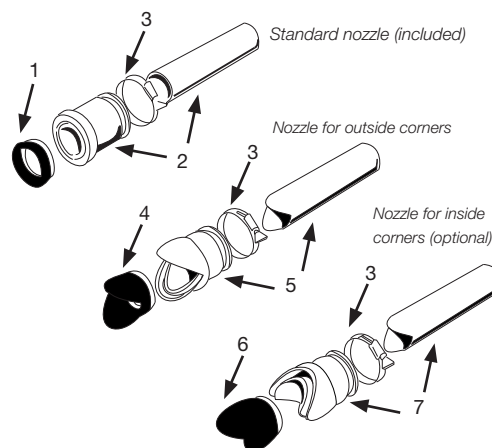
## Unique grit valve

Our unique grit valve can be pre-installed to achieve maximum blasting production with minimum consumption of materials.

- Maximum productivity – covers large areas in less time thanks to the design of the vacuum head and the constant even flow of grit.
- Less downtime with our unique cleaning and recirculation of grit.
- Long filter life with efficient pre-separation of grit and automatic filter cleaning.



Ab460  
Pneumatic  
unit



## Nozzles

	Description	Part no.
1	Brush ring, standard	40375404
2	Inner hose, Standard set	40375403
3	Clamp for brush holder	40375410
4	Brush ring for inside corner	40375408
5	Internal hose and internal brush holder	40375406
6	Brush ring for outside corner	40375407
7	Internal hose and external brush holder	40375405

## Vacuum blaster

	Bb418 230 V/50 Hz	Ab418 Pneumatic	Bb460 230 V/50 Hz	Ab460 Pneumatic
Part no.	40056603	40056601	40056604	40056602
Weight, kg	193	193	242	242
Weight with hose, kg	+17	+17	+17	+17
Power, kW	2,4	-	2,4	-
Compressed air consumption/ ejector Nm <sup>3</sup> /min	-	2,2	-	2,2
Max. Airflow, Nm <sup>3</sup> /hr	460	360	460	360
Max.vacuum, kPa	-21,5	-42	-21,5	-42
Blasting method	Pressure blasting	Pressure blasting	Pressure blasting	Pressure blasting
Blaster tank l	18	18	60	60
Pre-separator l	18	18	60	60
Total air consumption	2 bar = 0.7 m <sup>3</sup> /min	2 bar = 2.9 m <sup>3</sup> /min	2 bar = 0.7 m <sup>3</sup> /min	2 bar = 2.9 m <sup>3</sup> /min
	3 bar = 1.0 m <sup>3</sup> /min	3 bar = 3.2 m <sup>3</sup> /min	3 bar = 1.0 m <sup>3</sup> /min	3 bar = 3.2 m <sup>3</sup> /min
	4 bar = 1.3 m <sup>3</sup> /min	4 bar = 3.5 m <sup>3</sup> /min	4 bar = 1.3 m <sup>3</sup> /min	4 bar = 3.5 m <sup>3</sup> /min
	5 bar = 1.7 m <sup>3</sup> /min	5 bar = 3.9 m <sup>3</sup> /min	5 bar = 1.7 m <sup>3</sup> /min	5 bar = 3.9 m <sup>3</sup> /min
Capacity, m <sup>2</sup> /hr	6-10	6-10	6-10	6-10

## Spare parts Vacuum blasters

For more information on our complete range of replacement parts, please visit our website.

### Ab/Bb418 and Ab/Bb460

Part no.	Vyon filter rod	Plastic bag	Blaster hose kit	Suction hose, 11.5 m	Hose pair kit
40056603	43906010	43650104	40375411	40375414	40375412
40056601	43906010	43650104	40375411	40375414	40375412
40056604	43906010	43650104	40375411	40375414	40375412
40056602	43906010	43650104	40375411	40375414	40375412

Replacement nozzles - see Accessories, page 169.



### SB 750

Part no.	Filters	Glass shot 0.2 - 0.4 mm 5 L	Aluminium silicate, 10 L	Suction hose Ø 32 mm 2 m
70750070	70366200	70311009	70311006	70400051

Replacement nozzles - see Accessories, page 168.





## Nederman has almost 40 years of experience of dealing with vehicle exhaust fumes indoors.

Our solutions for extracting exhaust gases can be found all over the world, in vehicle repair shops, emergency services, car inspection facilities and bus garages, for example.

The solution may be anything from individual products to complete systems. In the automotive industry, our exhaust nozzles and hoses are often combined with our other products and systems for extracting fumes and dust and for cleaning, and cable reels and systems for distributing lubricants, compressed air, water, electricity etc.

We will help you to:

- Prevent risks to health
- Comply with laws and regulations
- Keep the premises clean and tidy
- Increase efficiency

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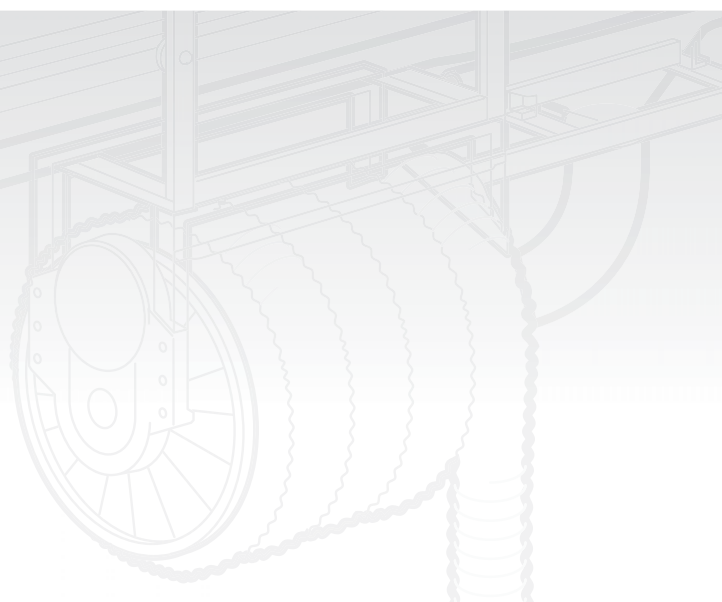
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## EXHAUST EXTRACTION



# PRODUCT GUIDE

Exhaust extraction



		Stationary vehicles				Moving vehicles						Stationary/ moving vehicles	
		Hose reel	Single/ dual extractor	Rail 920	Track arm	Rail 920	ALU straight	Flowline separate return	Magna system	Pneu- matic system	Vertical system	Nozzles	Hoses
Manufacturer	Production line					x	x	x				x	x
	Rectification area	x	x	x			x	x				x	x
Testing station/ vehicle inspection	Single step	x	x			x	x			x		x	x
	Double step		x			x	x	x		x		x	x
	Multi step						x	x				x	x
	Brake testing	x	x			x	x	x		x		x	x
	Repair shop												
	Emission test	x	x	x		x	x	x		x		x	x
Repair shop – passenger cars	Repair shop	x	x	x								x	x
Repair shop – heavy commercial vehicles	Repair shop	x	x	x	x		x					x	x
Repair shop – public transport	Repair shop	x	x	x	x	x	x		x	x		x	x
	Bus garage					x	x	x	x	x		x	x
Airports/military facilities	Inspection/test	x	x		x		x	x	x	x		x	x
	Repair shop	x	x		x							x	x
	Tank repair				x		x	x	x	x		x	x
Fire and rescue	Parking bays								x	x	x	x	x
	Repair and service	x	x	x					x	x		x	x





## Single exhaust extractors



The single exhaust extractor is a reliable and functional solution for all types of stationary vehicles. Available with balancer or a cord for manual hose suspension. The balancer automatically raises the hose and nozzle after disconnection, and keeps them lifted clear of the floor at all times. Models for high temperature application are available.

- Easy handling of exhaust hose  
Takes up very little space.
- Low cost solution.
- Easy to install.
- Prepared for fan mounting on bracket.

### Single exhaust extractor without fan

Hose Ø, mm	Hose type*	Hose length, m	Balancer for hose	Manual hose suspension	Automatic disconnection	Exhaust nozzle	Part no.
75	NTP	5,0		X			20813063
100	NTP	5,0		X			20813163
100	NTP	7,5	X				20813263
150	NTP	5,0		X			20814563
150	NTP	7,5	X				20813363
150	NFC-3	6,0	X				20813463
200	NFC-3	6,0	X			Part no. 20807061 included	20813563

\* Hose type - see separate section.

### Single exhaust extractor complete with fan

Hose Ø, mm	Hose type*	Hose length, m	Manual hose suspension	Fan included	Exhaust nozzle	Part no.
75	NTP	5,0	X	N10	20815261	20813963
100	NTP	7,5	X	N10 N16	20815261	20814063
150	NTP	5,0	X	N16 N24		20814163

\* Hose type - see separate section.

# Exhaust hose reel 865

Spring-recoil



For all types of vehicle workshops, etc. where the hose can be set to hang at a reachable height. The patented spring drive makes the reel very easy to handle. A built-in patented automatic damper saves energy and reduces noise levels. Control of retraction speed optional, to provide increased safety and efficiency. Mounting of fan on reel is possible. The spring recoiled hose reel can be upgraded to motor drive.

- Simple and safe installation.
- Automatic damper for energy savings.
- Simple adjustment of lifting capacity.
- Automatic start/stop of fan optional.
- Control of retraction speed optional.

Hose Ø, mm	Hose type*	Hose length, m, incl.	Max possible hose length, m**	Type of reel body	Automatic damper	Reinforced spring	Reel with hose Part no.
75	NTP	5,0	7,5	short			20800865
75	NR-CP	5,0	7,5	short	X		20801465
100	NTP	5,0	7,5	short			20810265
100	NTP	7,5	7,5	short			20810365
100	NR-CP	5,0	7,5	short	X		20800665
100	NR-CP	7,5	7,5	short	X	X	20805365
100	NR-CP	10,0	10,0	wide	X		20801965
125	NTP	5,0	5,0	short			20800465
125	NTP	7,5	10,0	wide			20801765
125	NR-CP	5,0	5,0	short	X		20801165
125	NR-CP	7,5	10,0	wide	X		20802065
125	NR-CP	10,0	10,0	wide	X		20802165
150	NR-CP	5,0	5,0	short	X		20801065
150	NR-CP	7,5	10,0	wide	X	X	20802265
150	NR-CP	10,0	10,0	wide	X	X	20802365

\* Hose type - see separate section. \*\* Selection of additional hoses: see separate hose section.

# Exhaust hose reel 865

Electric motor driven



The best solution in workshops with a high ceiling, where overhead cranes etc. have to be considered, or where high vehicles must pass. Operated via a hand unit either an IR control or pendant control. A receiving eye on the reel shows the status of operation. Electronic limit switches reduce the risk of malfunction and unnecessary wear on the hose. Fan start/stop is automatically controlled. Mounting of fan on reel is possible.

- Convenient and safe operation.
- Automatic fan control.
- Settings for limit switches made from floor level.
- Compact, modern design.
- Quick & easy installation reduces cost.

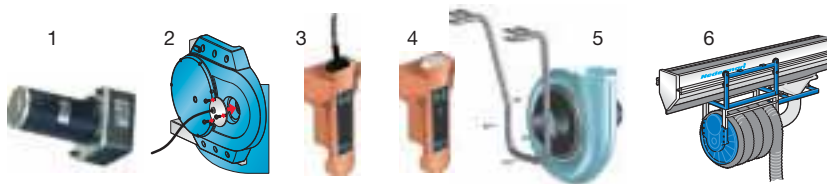
Power supply, V	100-240
Number of phases	1
Frequency, Hz	50/60
Max lifting capacity, kg	30

Hose Ø, mm	Hose type*	Hose length, m, incl.	Max possible hose length, m**	Type of reel body	For manual control	Limit switches	Reel with hose Part no.
100	NR-CP	7,5	12,5	wide	IR or pendant	X	20802965
100	NFC-3	7,5	12,5	wide	IR or pendant	X	20803065
125	NR-CP	7,5	10,0	wide	IR or pendant	X	20803365
125	NFC-3	7,5	10,0	wide	IR or pendant	X	20803465
150	NR-CP	10,0	10,0	wide	IR or pendant	X	20803965
150	NFC-3	7,5	10,0	wide	IR or pendant	X	20803865

\* Hose type - see separate section. \*\* Selection of additional hoses: see separate hose section.



# Exhaust hose reel accessories



	Description	For spring recoil reel	For motor driven reel	Part no.
1	Retraction control kit	X		20373880
2	Switch for automatic start/stop fan	X		20373557
3	Pendant control, incl. 5 m cable		X	20373712
4	Cordless control unit, IR		X	20373522
5	Fan bracket	X	X	20373556
6	Extraction trolley, reel on rail, for spring recoiled reel used in combination with exhaust rail ALU 150. For further information, please contact your nearest Nederman dealer.	X		20948610
7	Motor damper MDM	X	X	14500291

For fan contactors, transformers, fan controls etc. see separate sections on pages 84-85.





## Exhaust rail 920



Standard suction hose unit. For more information, please visit our website.



"Touchless" telescopic suction unit. For more information, please visit our website.

- Compact, modern design.
- Easy to position.
- Automatic damper for airflow control.
- Quick and simple installation reduces cost.

Easy to handle systems for all types of workshops. Consists of a basic rail system completed with an exhaust extraction kit. Very high extraction efficiency. One extraction unit can serve several workbays. Extraction units are easy to

move, thanks to light-weight material and ball bearing wheels. Two 400 units serve cars with twin exhaust pipes. Manual disconnection of exhaust nozzles. For the range of nozzles, see the separate section 'Exhaust nozzles'.

### Rail kit 920\*\*

Length, m	Part no.
2,5	20916020
5	20916120
7,5	20916220
10	20916320
12,5	20916420
15	20916520
17,5	20916620
20	20916720
22,5	20916820
25	20916920
27,5	20917020
30	20917120
35	20917220
40	20917320
45	20917420
50	20917520

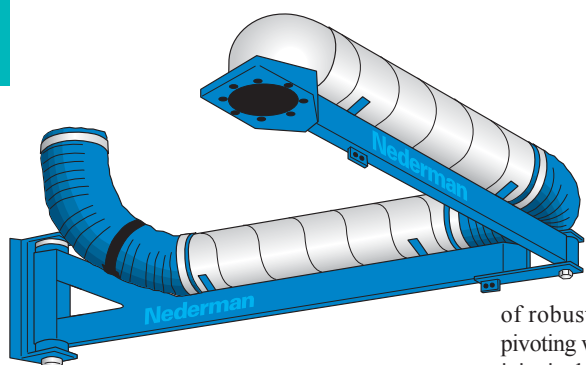
### Exhaust extraction unit with trolley, hose

Trolley	Hose Ø, mm	Hose type*	Hose length, m	Nozzle holder	Balancer for hose	Damper	Holder for balancer line	Part no.
400	100	NTP	5,0	X		X		20915720
400	100	NTP	7,5	X		X		20915120
400	100	NR-CP	5,0	X		X		20915220
400	100	NTP	5,0		X	X	X	20915620
400	100	NTP	7,5		X	X	X	20915020
400	100	NR-CP	5,0		X	X	X	20915520
1500	150	NR-CP	5,0	X		X		20914320
1500	150	NR-CP	5,0		X	X	X	20914020

Accessories	Rail kit	For 400 trolley	For 1500 trolley	Part no.
Top connection. Outlet. Ø 200 mm	X			20374246
Balancer kit for 920/400 Unit		X		20373759
Safety coupling, Ø 100 mm		X		20374541
Safety coupling, Ø 150 mm			X	20374543

\* Hose type - see separate section. \*\* Complete with suspension parts, joint connectors, rubber seals, end covers and end stops. For rail lengths > 50 m, please contact your local Nederman dealer.

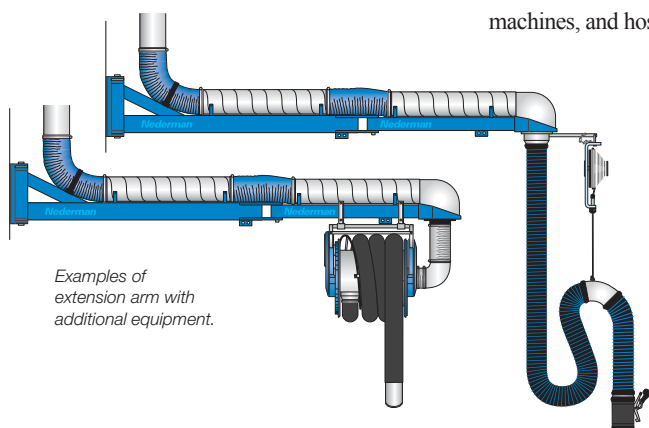
# Extension arm



The Nederman extension arm, 4.2 m or 6.0 m, is designed to be used when extra reach is needed. Combine it with single exhaust extractors or exhaust hose reels for cars or trucks. Made of robust steel profiles. Suspended by a pivoting wall bracket and equipped with a joint in the middle, which makes it flexible in all directions. It is also possible to combine other equipment with the extension arm, such as extraction arms for fumes or dust, welding machines, and hose and cable reels.

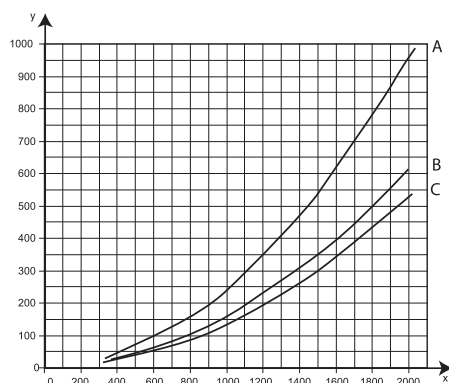
- A universal bracket makes it possible to fit additional equipment directly on to the extension arm.
- The hose kit must be ordered separately.

Recommended airflows	Max. 2000 m³/h
Recommended maximum negative pressure	3000 Pa
Connection diameter	200 mm
Maximum load on outer arm 4.2 m	100 kg
Maximum load on outer arm 6.0 m	60 kg
Rec. installation height from floor level	2.7-3.0 m



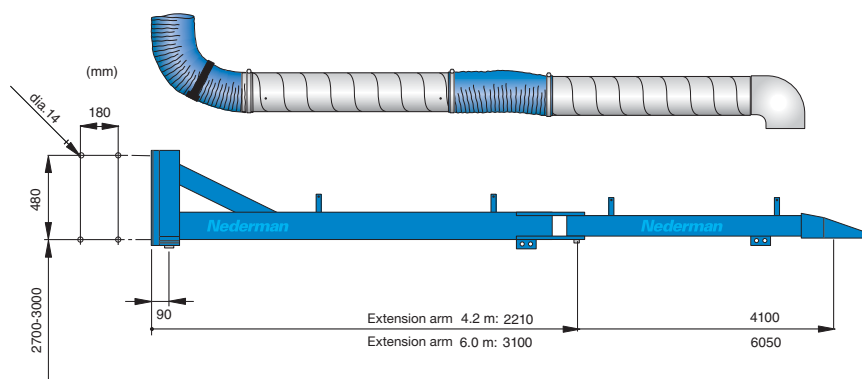
Examples of extension arm with additional equipment.

## Pressure drop



X: airflow, m³/h, Y: static pressure, Pa  
A: Extension arm bent 40° (to its limit).

B: Extension arm bent 90°.  
C: Extension arm is straight.



Description	Recovery rate by weight, %	Weight, kg	Materials	Part no.
Extension arm, 4.2 m	100	73	Powder painted steel	10506635
Extension arm, 6.0 m	100	93	Powder painted steel	10507735

Accessories	Recovery rate by weight, %	Weight, kg	Materials	Part no.
Suspension for exhaust hose reel	100	2	Powder painted steel	20374358

Hose kit consists of	Max temp of extracted air, °C	Recovery rate by weight, %	Weight, kg	Materials	Part no.
Hose kit 4.2 m, exhaust	150	57	12	Galvanised steel pipe, NRCP hose	10374375
Hose kit 6.0 m, exhaust	150	71	17	Galvanised steel pipe, NRCP hose	10374374

## Balancer for exhaust hose

- Makes the hose easier to handle.
- Reduces wear on hose and nozzle.
- Safe balancer operation.
- Exceptional hoist length.

Balancer lifts and counterbalances exhaust gas hose and nozzle. The reversed spring power with conical balancer makes handling the hose very easy and safe, offering an even pulling force and lifting power. An integrated centrifugal brake prevents the hose from being lifted too quickly, which minimises the risk of personal injury and damage to vehicles. Hoist length: 8 m.

Description	Capacity, kg	Part no.
Conical balancer, incl. ratchet	5–11	20800431
Conical balancer, incl. ratchet	7–15	20800631
Balancer	10–14	20375057

Accessories	Part no.
Pivoting bracket	20331947
Start/stop switch for fan/automatic damper	20374015



## Exhaust system for moving vehicles

For more information on exhaust extractor systems for moving vehicles, visit our website.



Example exhaust system for vehicle inspection.



Example exhaust system for emergency depot.

Apart from exhaust gas extraction from stationary vehicles in static workplaces, there is also a need in many cases to extract exhaust gases from moving vehicles. This will be the case, for example, in emergency depots, Vehicle inspection centers, bus garages, truck repair shops etc. Important features in these applications are easy connection of the suction nozzle, automatic and secure uncoupling of the suction nozzle, and in some cases,

automatic and safe return of the extraction unit to its starting position. Nederman can meet all these needs.

### Exhaust rail and track

Systems with exhaust rails and tracks offer economical and reliable solutions with direct capture and evacuation of gases from the exhaust pipe, which is the only effective method. The extraction unit comprises the trolley,

suction hose and nozzle attached to the vehicle's exhaust pipe. The vehicle pulls the extractor unit along the track with constant and safe evacuation of the exhaust gases. The suction unit can be fixed to the exhaust pipe mechanically, pneumatically or electromagnetically. The Nederman system can handle low, high and vertically positioned exhaust pipes.

# Exhaust Nozzles



Nederman offer an extensive range of robust rubber and metal nozzles to accommodate various types of vehicles and systems. Adjustable test funnels with special design to handle large volumes of hot exhaust from vehicles in inspection centres for example.

- Resistant to very high exhaust temperature – up to 150°C in normal use.
- Easy manual connection and disconnection.
- Well proven models with a soft capturing hood that protects workforce and vehicles.

## Rubber nozzles with manual disconnection

	Nozzle type	Description For cars	Description For heavy vehicles	Max exhaust pipe Ø: Single, mm	Max exhaust pipe Ø: Dual, mm	Connection to hose Ø, Dual, mm	Part no.
1	Beak nozzle.	x		75		75	20866561
	Beak nozzle.	x		75		100	20866461
	Beak nozzle.	x		125	150x80	75	20866961
	Beak nozzle.	x		125	150x80	100	20866861
2	Beak nozzle.		x	125	150x80	125	20866761
	Beak nozzle.		x	125	150x80	150	20866661
3	Slips on to the exhaust pipe. Without locking device.	x		100		75 and 100	20815261
	Spring-loaded lid, wire guard and opening for CO probe. Without locking clamp.	x		110	150x110	100	20802561
	Adapter for Ø 75 mm hose, for nozzle no 20802561.	x				75	20373128
4	Spring-loaded lid, wire guard, metal hose and opening for CO probe.	x		75	100x75	75	20803461
	Spring-loaded lid, wire guard, metal hose and opening for CO probe.	x		75	100x75	100	20803561
	Spring-loaded lid, wire guard, metal hose and opening for CO probe.	x		75	100x75	125	20803661
5	Wire guard and opening for CO probe. Without lid.	x		75	100x75	75	20804061
	Wire guard and opening for CO probe. Without lid.	x		75	100x75	100	20804161
	Wire guard and opening for CO probe. Without lid.	x		75	100x75	125	20804261
6	Wire guard and opening for CO probe. Hose connection angled 60°.	x		75	150x75	75	20805461
	Wire guard and opening for CO probe. Hose connection angled 60°.	x		75	150x75	100	20805561
	Wire guard and opening for CO probe. Hose connection angled 60°. For variable thickness of pipe material.	x		75	150x75	100	20808361
7	Lid wire guard and metal hose.		x	150		100	20803161
	Lid wire guard and metal hose.		x	150		125	20803261
	Lid wire guard and metal hose.		x	150		150	20803361
8	Wire guard and opening for CO probe. Hose connection angled 60°.		x	100	200x100	125	20805661
	Wire guard and opening for CO probe. Hose connection angled 60°.		x	100	200x100	150	20805761
9	Wire guard without lid.		x	150		125	20805861
	Wire guard without lid.		x	150		150	20805961
10	Swivel and lengthwise compressible hood.		x	180	240x230	150	20806961
	Swivel and lengthwise compressible hood.		x	230	240x230	200	20807061

All rubber nozzles are resistant to temperatures up to 150 °C. Also suitable for motorcycles.



## Metal nozzles with manual disconnection



	Description	Max. exhaust pipe Ø, single, mm	Connection to hose Ø, mm	Part no.
11	For heavy vehicles. Made of aluminium. With wire guard.	125	150	20804761
11	For heavy vehicles. Made of aluminium. With wire guard.	170	200	20804961

## Nozzle on floor stand

(e.g. for downward-facing and inset exhaust pipes)

	Description	Connection to hose Ø, mm	Part no.
12	For cars. Rubber funnel, rotatable 360°, vertically adjustable 0-600 mm, complete with stand.	100	20868361
13	For cars. Funnel rotatable 360°, vertically adjustable 0-600 mm. Complete with stand, on four wheels, two with brake.	150	20816861
14	For heavy vehicles. Complete with stand. Vertically adjustable 130-440 mm.	200	20807261



## Nozzles for vertical exhaust pipes

	Description	Max. exhaust pipe Ø, mm	Connection Ø, mm	Part no.
15	Galvanised steel nozzle for stack pipes, length: 2600 mm.	250	140	20801961
16	Rubber cone nozzle.	250	125/150/200	20808861
17	Telescopic lifting pole for rubber cone nozzle (20808861).			20374287

## Nozzles for built-in and covered exhaust pipes

	Description	Exhaust pipe Ø, mm Single	Exhaust pipe Ø, mm Dual (W x H)	Connection to hose Ø, mm	Part no.
18	Plastic cap/rubber hood. Internal grip in two length positions.	35-70	240 x (35-70)	100	20867261
18	Plastic cap/rubber hood. Internal grip in two length positions.	35-70	270 x (35-70)	100	20867861



## Accessory for exhaust nozzles

	Description	Part no.
19	Adapter for double exhaust pipes, with two hoses, each Ø 100 mm, length 1.0 m.	20815061

# Exhaust hoses

The Nederman exhaust hoses are specifically designed to be flexible and ductile, and to have a very low pressure drop. They are resistant to all chemicals in diesel and petrol exhaust fumes, and show high resistance to mechanical stress.



## 1. Thermoplastic hose (NTP)

- For most normal applications.
- Temperature range:  
Continuous use: up to +150 °C.
- Light weight and abrasion resistant.

Hose Ø, mm	Hose length, m	Part no.
75	5,0	20805062
100	5,0	20805162
100	7,5	20805262
100	10,0	20805362
125	5,0	20805462
125	7,5	20805562
150	5,0	20805662
150	7,5	20805762



## 2. Crush-proof rubber hose (NR-CP)

- For more rugged and *intensive* use.
- Temperature range:  
Continuous use: +150 °C.  
Short-term use: +170 °C.

Hose Ø, mm	Hose length, m	Part no.
75	2,5	20820162
75	5,0	20820262
100	2,5	20820362
100	5,0	20820462
100	7,5	20820562
100	10,0	20820662
125	2,5	20820762
125	5,0	20820862
125	7,5	20820962
125	10,0	20821062
150	2,5	20821162
150	5,0	20821262
150	7,5	20821362
150	10,0	20821462
200	5,0	20810762
200	10,0	20823962



## 3. High temperature hose (NFC-3)

- Temperature range:  
Continuous use: +300 °C.  
Short-term use: +350 °C.
- Light weight and highly resistant to diesel particles.

Hose Ø, mm	Hose length, m	Part no.
100	2,5	20822562
100	5,0	20822662
100	7,5	20822762
100	10,0	20822862
125	2,5	20822962
125	5,0	20823062
125	7,5	20823162
125	10,0	20823262
150	2,5	20823362
150	5,0	20823462
150	7,5	20823562
150	10,0	20823662
200	5,0	20823762
200	7,5	20824862
200	10,0	20823862



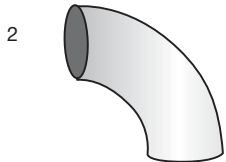
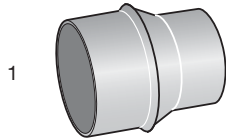
## 4. Extreme high temperature hose (NFC-6.5)

- Temperature range:  
Continuous use: +650 °C.  
Short-term use: +750 °C.
- Asbestos- and silicon-free high-temperature fabric.

Hose Ø, mm	Hose length, m	Part no.
150	2,5	20824462
150	5,0	20824562
200	2,5	20824762
200	5,0	20824662



# Exhaust hose accessories



	Description	Ø, mm	Part no.
1	Hose reduction, galvanised steel.	150-125	20344353
1	Hose reduction, galvanised steel.	125-100	20344354
1	Hose reduction, galvanised steel.	100-75	20342483
2	Bend 90°, galvanized steel.	75	20344590
2	Bend 90°, galvanized steel.	100	20344591
2	Bend 90°, galvanized steel.	125	20344592
2	Bend 90°, galvanized steel.	150	20344593
3	Hose clip with rubber sleeves, pair.	75	20342489
3	Hose clip with rubber sleeves, pair.	100	20342490
3	Hose clip with rubber sleeves, pair.	125	20342712
3	Hose clip with rubber sleeves, pair.	150	20331552
3	Hose clip with rubber sleeves, pair.	200	20373838
4	Hose connector, galvanised steel, with hose clip and rubber sleeves.	75	20373286
4	Hose connector, galvanised steel, with hose clip and rubber sleeves.	100	20373287
4	Hose connector, galvanised steel, with hose clip and rubber sleeves.	125	20373288
4	Hose connector, galvanised steel, with hose clip and rubber sleeves.	150	20373289
4	Hose connector, galvanised steel, with hose clip and rubber sleeves.	200	20373290
5	Hose suspension, adjustable, rubber.	100-150	20374530
5	Hose suspension, hard plastic.	75	20373615
5	Hose suspension, hard plastic.	100	20373607
5	Hose suspension, hard plastic.	125	20373608
5	Hose suspension, hard plastic.	150	20373609
6	Hose coupling, incl two sleeves and hose clips.	100	20947410
6	Hose coupling, incl two sleeves and hose clips.	125	20948710
6	Hose coupling, incl two sleeves and hose clips.	150	20948810
6	Hose coupling, incl two sleeves and hose clips.	200	20948910
7	Quick coupler incl. rubber sleeves and hose clips.	100	20374541
7	Quick coupler incl. rubber sleeves and hose clips.	150	20374543
7	Quick coupler, male 4" incl. rubber sleeves and hose clip.	100	20375049
7	Quick coupler, male 6" incl. rubber sleeves and hose clip.	150	20376017
8	Connection kit for quick connection to nozzle.	100	20375048

# Spare parts Exhaust extraction

Single extractors	Upper hose with rubber sleeves/clamp	Lower hose with rubber sleeves/clamp	Cord with stop for balancer	Balancer, incl. latch	Manual hose suspension kit
Product no.	replacement part no.	replacement part no.	replacement part no.	replacement part no.	replacement part no.
20813063	20805062	-	-	-	20332420
20813163	20805162	-	-	-	20332420
20813263	20805262	-	20373996	20343459	-
20814563	20805662	-	-	-	20332420
20813363	20805762	-	20373996	20343459	-
20813463	20372144	20372145	20373996	20343459	-
20813563	20371932	20371931	20373996	20343459	-

Exhaust hose reel Spring-recoiled	Hose with rubber sleeves/clamp	Hose stop	Hose rubber sleeves/clamp (pair)
Product no.	replacement part no.	replacement part no.	replacement part no.
20800865	20805062	20344475	20342489
20801465	20820262	20344475	20342489
20810265	20805162	20341188	20342490
20810365	20805262	20341188	20342490
20800665	20820462	20341188	20342490
20805365	20820562	20341188	20342490
20801965	20820662	20341188	20342490
20800465	20805462	20344111	20342712
20801765	20805562	20344111	20342712
20801165	20820862	20344111	20342712
20802065	20820962	20344111	20342712
20802165	20821062	20344111	20342712
20801065	20821262	20344476	20331552
20802265	20821362	20344476	20331552
20802365	20821462	20344476	20331552

Exhaust rail 920 stationary use	Hose with rubber sleeves/clamp	Hose rubber sleeves/clamp (pair)	Hose suspension	Cord with stop for balancer	Suspension cord for nozzles
Product no.	replacement part no.	replacement part no.	replacement part no.	replacement part no.	replacement part no.
20915720	20805162	20342490	-	-	20373753
20915120	20805262	20342490	-	-	20373753
20915220	20820462	20342490	-	-	20373753
20915620	20805162	20342490	20373607	20373835	-
20915020	20805262	20342490	20373607	20373835	-
20915520	20820462	20342490	20373607	20373835	-
20914320	20821262	20331552	-	-	20373753
20914020	20821262	20331552	20373609	20373835	-

Exhaust hose reel Motorised	Hose with rubber sleeves/clamp	Hose rubber sleeves/clamp (pair)
Product no.	replacement part no.	replacement part no.
20802965	20820562	20342490
20803065	20822762	20342490
20803365	20820962	20342712
20803465	20823162	20342712
20803965	20821462	20331552
20803865	20823562	20331552

\*For replacement of exhaust nozzle, see page 180-181.

Extension arm	Friction disc kit	Conical balancer	Cord with stop	Ratchet
Product no.	replacement part no.	Product no.	replacement part no.	replacement part no.
10506635	10345214	20800431	20373996	20343459
10507735	10345214	20800631	20373996	20343459





## HOSE AND CABLE REELS

### It has never been so easy to handle and store hoses and cables.

Nederman has been developing and manufacturing top-quality hose and cable reels for industrial use for more than 60 years. Our reels are now installed all over the world in every conceivable kind of application and industry. They contribute to higher efficiency, safety and improved finances for our customers. Some of the most important arguments for using Nederman cable reels are:

- Less wear and breakage of expensive hoses and cables
- Simplified handling and storage of hoses and cables
- Easier to keep floors and work surfaces clear of hoses and cables
- Significantly less risk of accidents caused by tripping
- Generally better working environment

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204

## Hose and cable reels



Media	Max. working pressure, MPa (psi)	Hose dimension, int. Ø mm (in)	Series H20 Max. hose length, m	Series H30 Max. hose length, m	Series 883 Max. hose length, m	Series 893 Max. hose length, m	Series 888/889 Max. hose length, m	Series 884 Max. hose length, m	Series 876 Max. hose length, m
Air/water	1,2 (175)	6 (1/4)	12						
Air/water	1,2 (175)	8 (5/16)	8						
Air/water	1,5 (220)	8 (5/16)		12					
Air/water	1,5 (220)	10 (3/8)		10	15	15	15 / 20		
Air/water	1,5 (220)	12,5 (1/2)			10	10	10 / 15	30	
Air/water	1,5 (220)	19 (3/4)						15	
Air/water	1,5 (220)	25 (1)						10	
Water – food	2,0 (290)	12,5 (1/2)				10	10 / 13+2	20	
Water – food	2,0 (290)	19 (3/4)						15	
Water – food	2,0 (290)	25 (1)						10	
Water - HP	25 (3625)	10 (3/8)			13	15	15 / 18	25	
Oil	5,0 (725)	19 (3/4)						15	
Oil	5,0 (725)	25 (1)						10	
Oil	7,5 (1090)	12,5 (1/2)			10	10	10 / 15	30	
Grease	35 (5075)	6 (1/4)			15	15	15 /	25	
Oxygen and acetylene	2,0 (290)	2 x 6.3 (1/4)							20
Oxygen and acetylene	2,0 (290)	2 x 10 (3/8)							15
Oxygen and acetylene	2,0 (290)	1 x 6.3 (1/4) + 1 x 10 (3/8)							15
Oxygen and LPG	2,0 (290)	2 x 10 (3/8)							15

# PRODUCT GUIDE

Hose and cable reels

## Hose reels made of stainless steel



Media	Max. working pressure, MPa (psi)	Hose dimension, int. Ø mm (in)	Series 893, Max. hose length, m	Series 888/889, Max. hose length, m	Series 886, Max. hose length, m
Water	10 (1450)	12,5 (1/2)	10	10 / 15	25
Water – food	2,0 (290)	12,5 (1/2)			25
	2,0 (290)	19 (3/4)			18
	2,0 (290)	25 (1)			10
Water - HP	25 (3625)	10 (3/8)	15	15 / 20	25

## EX approved Hose Reels

Designed for use in EX zones and where high hygiene and corrosion resistance is required. Available with or without hoses.

Media	Max. working pressure MPa (psi)	Hose dimension, int. Ø mm (in)	Series 889 Max. hose length, m	Series 886 Max. hose length, m
Air/water	2,0 (290)	12,5 (1/2)	15	25
Air/water	2,0 (290)	19 (3/4)	-	15



## Cable reel

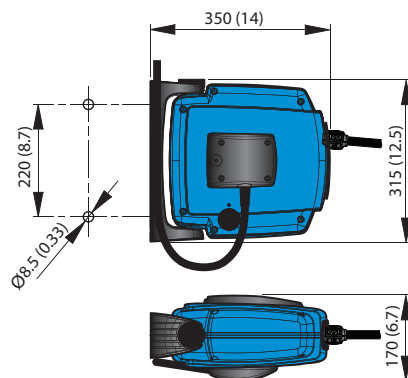
Series 20 and 30 for 230 V/2300 W.

Series 793 for 230 V/3800 W, (1-phase), or 400 V/6900 W, (3-phase).

Series C20 cable length, m	Series C30 cable length, m	Series 793 1-phase, cable length, m	Series 793 3-phase, cable length, m
12	17	18/25	15/22



## Hose Reel Series H20



High quality, functional and easy to use hose reel for industrial use or for DIY workshops. Robust design in high-impact composite materials. Fitted with a pivoting wall bracket that simply snaps onto the reel for ease of installation and a unique safety lock for secure service. Well-suited for use with pneumatic tools, staplers, blow gun etc.

- Snap-on wall bracket.
- Unique safety ratchet.
- Drum with double ball-bearings.
- Hose with swagged nipple and hose protector.
- Easy service.



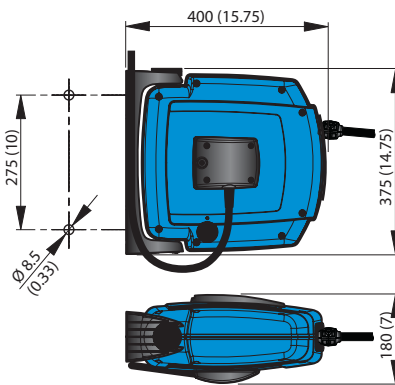
Media	Max. working pressure MPa (psi)	Distribution hose, Int. Ø mm (in)	Distribution hose Length, m	Connection hose, Int. Ø mm (in)	Connection hose Length, m	Distribution hose adapter	Weight, kg	Part no.
Air/water	1,2 (175)	6 (1/4)	12	10 (3/8)	1	1/4" (male)	~3	30800220
Air/water	1,2 (175)	8 (5/16)	8	10 (3/8)	1	1/4" (male)	~3	30800420

Max. recommended water temp. +40° C.



## Hose Reel Series H30

High quality, functional and easy to use hose reel for industrial use or for DIY workshops. Robust design in high-impact composite materials. Fitted with a pivoting wall bracket that simply snaps onto the reel for ease of installation and a unique safety lock for secure service. Well-suited for use with pneumatic tools, staplers, blow gun etc.



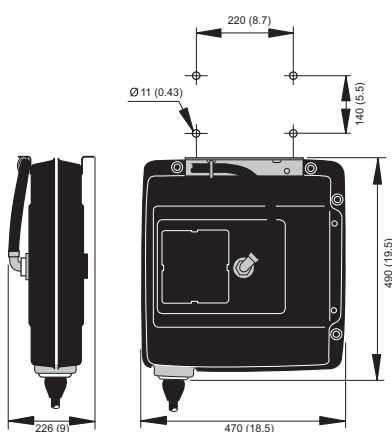
- Snap-on wall bracket.
- Unique safety ratchet.
- Drum with double ball-bearings.
- Hose with swagged nipple and hose protector.
- Easy service.



Media	Max. working pressure MPa (psi)	Distribution hose, Int. Ø mm (in)	Distribution hose Length, m	Connection hose, Int. Ø mm (in)	Connection hose Length, m	Distribution hose adapter	Weight, kg	Part no.
Air/ water	1,5 (220)	8 (5/16)	12	10 (3/8)	1	1/4" (male)	~4	30800230
Air/ water	1,5 (220)	10 (3/8)	10	10 (3/8)	1	3/8" (male)	~4	30800430

Max. recommended water temp. +40° C. 100% material recycling.

## Hose reel Series 883



Medium-sized steel-cased hose reel for wall or ceiling mounting. Highly suitable for applications in vehicle repair and maintenance workshops. Supplied with loose snap-on bracket for ease of installation.

- Spring power can easily be adjusted from the outside.
- Fast and easy to service.
- Simple hose replacement without dismantling the reel.



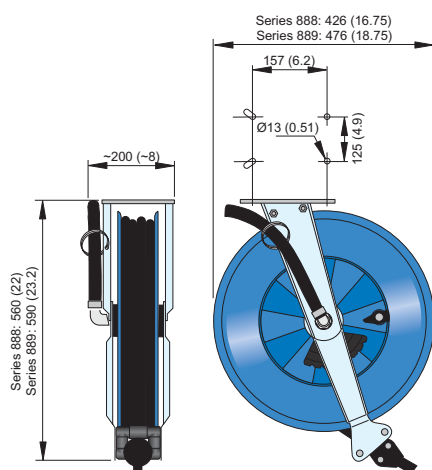
Media	Max. working pressure, MPa (psi)	Distribution hose, Int. Ø, mm (in)	Distribution hose, Length, m	Connection hose, Int. Ø, mm (in)	Connection hose, Length, m	Hose material	Hose type (see end of chapter)	Weight, kg	Reel with hose Part no.	Reel without hose Part no.
Air/water	1,5 (220)	10 (3/8)	15	12,5 (1/2)	1	Rubber	B	14-16	30800883	30800783
Air/water	1,5 (220)	12,5 (1/2)	10	12,5 (1/2)	1	Rubber	B	14-16	30801083	30800983
Water - High-pressure	25 (3625)	10 (3/8)	13	10 (3/8)	1	Rubber	G	14-16	30802283	30802183
Oil	7,5 (1090)	12,5 (1/2)	10	12,5 (1/2)	1	Rubber	I	14-16	30801283	30801183
Grease	35 (5075)	6 (1/4)	15	6 (1/4)	1	Rubber	J	14-16	30801883	30801383

100% recyclable.

# Hose reel Series 888/889

Medium-sized open reels, the Series 889 reels are fitted with slightly larger drums and therefore are able to take longer hoses than Series 888. Thanks to the open design, the reels are very easy to service, maintain and keep clean. Can be installed on wall or on the ceiling.

- Outlet position can be adjusted through 120° for optimum pull-out and pull-in angle.
- Spring power can easily be adjusted from the outside.
- Ratchet easily disengaged when required.

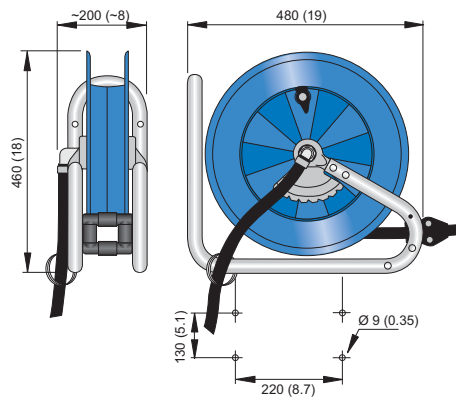


Media	Max. working pressure, MPa (psi)	Distribution hose, Int. Ø, mm (in)	Distribution hose Length, m	Connection hose, Int. Ø, mm (in)	Connection hose Length, m	Hose material	Hose type (see end of chapter)	Weight, kg	Reel with hose Part no.	Reel without hose Part no.
Air/water	1,5 (220)	10 (3/8)	15	12,5 (1/2)	1	Rubber	B	11-16	30800688	30800388
Air/water	1,5 (220)	10 (3/8)	20	12,5 (1/2)	1	Rubber	B	11-16	30800689	30800589
Air/water	1,5 (220)	12,5 (1/2)	10	12,5 (1/2)	1	Rubber	B	11-16	30800888	30800788
Air/water	1,5 (220)	12,5 (1/2)	15	12,5 (1/2)	1	Rubber	B	11-16	30800889	30800789
Water – food	2,0 (290)	12,5 (1/2)	10	12,5 (1/2)	1	Rubber	E	11-16	30801088	–
Water – food	2,0 (290)	12,5 (1/2)	13+2	12,5 (1/2)	1	Rubber	E	11-16	30801089	–
Water - HP	25 (3625)	10 (3/8)	15	10 (3/8)	1	Rubber	G	11-16	30801888	30801788
Water - HP	25 (3625)	10 (3/8)	18	10 (3/8)	1	Rubber	G	11-16	30801889	30801789
Oil	7,5 (1090)	12,5 (1/2)	10	12,5 (1/2)	1	Rubber	I	11-16	30801688	30801588
Oil	7,5 (1090)	12,5 (1/2)	15	12,5 (1/2)	1	Rubber	I	11-16	30801689	30801589
Grease	35 (5075)	6 (1/4)	15	6 (1/4)	1	Rubber	J	11-16	30802688	30802588

100% recyclable.



## Hose reel Series 893



Medium-sized reel in robust open design. Thanks to the open design, the reels are very easy to service, maintain and keep clean. Can be installed on wall or on the ceiling. Versatile and easily installed in industrial and workshop environments.

- Outlet position can be adjusted for optimum pull-out and pull-in angle.
- Spring power can easily be adjusted from the outside.
- Robust and flexible design.



Media	Max. working pressure, MPa (psi)	Distribution hose, Int. Ø, mm (in)	Distribution hose, Length, m	Connection hose, Int. Ø, mm (in)	Connection hose, Length, m	Hose material	Hose type (see end of chapter)	Weight, kg	Reel with hose Part no.	Reel without hose Part no.
Air/water	1,5 (220)	10 (3/8)	15	12,5 (1/2)	1	Rubber	B	13-16	30800693	30800393
Air/water	1,5 (220)	12,5 (1/2)	10	12,5 (1/2)	1	Rubber	B	13-16	30800893	30800793
Water – food	2,0 (290)	12,5 (1/2)	10	12,5 (1/2)	1	Rubber	E	13-16	30801093	-
Water - HP	25 (3625)	10 (3/8)	15	10 (3/8)	1	Rubber	G	13-16	30801893	30801793
Oil	7,5 (1090)	12,5 (1/2)	10	12,5 (1/2)	1	Rubber	I	13-16	30801693	30801593
Grease	35 (5075)	6 (1/4)	15	6 (1/4)	1	Rubber	J	13-16	30802693	30802593

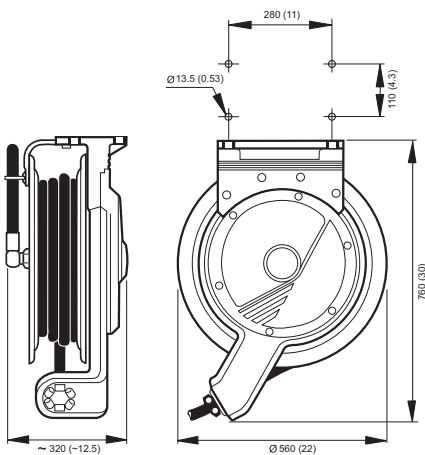
100% recyclable.



## Hose reel Series 884

Large open hose reel made of die-cast powder-coated aluminium, making the reel very robust and corrosion-resistant. Easily accommodates long and heavy hoses. Fitted with ball bearings in drum and swivel to minimize friction.

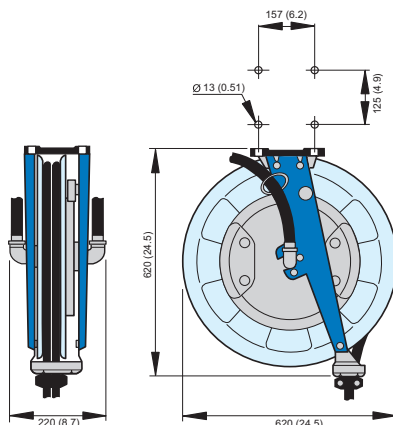
- Robust, high-impact and corrosion-resistant.
- Adjustable outlet for optimum reeling angle.
- Easy service and cleaning.



Media	Max. working pressure, MPa (psi)	Distribution hose, Int. Ø, mm (in)	Distribution hose, Length, m	Connection hose, Int. Ø, mm (in)	Connection hose, Length, m	Hose material	Hose type (see end of chapter)	Weight, kg	Reel with hose Part no.	Reel without hose Part no.
Air/water	1,5 (220)	12,5 (1/2)	20	12,5 (1/2)	1	Rubber	D	28-35	30810284	30810184
Air/water	1,5 (220)	12,5 (1/2)	30	12,5 (1/2)	1	Rubber	D	28-35	30817484	30817384
Air/water	1,5 (220)	19 (3/4)	15	19 (3/4)	1	Rubber	D	28-35	30810484	30810384
Air/water	1,5 (220)	25 (1)	10	25 (1)	1	Rubber	D	28-35	30810684	30810584
Water – food	2,0 (290)	12,5 (1/2)	20	12,5 (1/2)	1	Rubber	E	28-35	30810884	–
Water – food	2,0 (290)	19 (3/4)	15	19 (3/4)	1	Rubber	E	28-35	30811284	30812184
Water – food	2,0 (290)	25 (1)	10	25 (1)	1	Rubber	E	28-35	30811484	30813384
Water - HP	25 (3625)	10 (3/8)	25	10 (3/8)	1	Rubber	G	28-35	30811684	30811584
Oil	7,5 (1090)	12,5 (1/2)	20	12,5 (1/2)	1	Rubber	I	28-35	30811884	30811784
Oil	7,5 (1090)	12,5 (1/2)	30	12,5 (1/2)	1	Rubber	I	28-35	30813684	30813584
Oil	5,0 (725)	19 (3/4)	15	19 (3/4)	1	Rubber	I	28-35	30812284	30812184
Oil	5,0 (725)	25 (1)	10	25 (1)	1	Rubber	I	28-35	30813484	30813384
Diesel*	5,0 (725)	–	–	–	1	–	–	28-35	–	30814584
Grease	35 (5075)	6 (1/4)	25	6 (1/4)	1	Rubber	J	28-35	30813284	–

\* For 15 m (3/4") hose. Connections on reel: 3/4" male BSP. 100% recyclable.

## Hose reel Series 876



The perfect reel to handle twin hoses for oxygen/acetylene or oxygen/LPG. This is an application where safety is of utmost importance

- Hose feed and storage on drum in one layer.
- Open design for safe and easy servicing.
- All-steel construction.



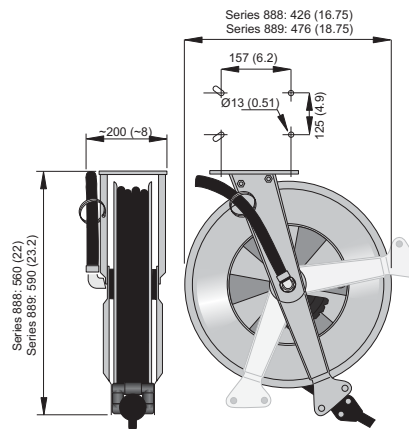
Media	Max. working pressure, MPa (psi)	Distribution hose, Int. Ø, mm (in)	Distribution hose, Length, m	Connection hose, Int. Ø, mm (in)	Connection hose, Length, m	Hose type (see end of chapter)	Weight, kg	Reel with hose Part no.	Reel without hose Part no.
Oxygen and acetylene	2,0 (290)	2 x 6.3 (1/4)	20	2 x 6.3 (1/4)	1	K	26-30	30828476	30828376
Oxygen and acetylene	2,0 (290)	1 x 6.3 (1/4) + 1 x 10 (3/8)	15	1 x 6.3 (1/4) + 1 x 10 (3/8)	1	K	26-30	30827276	30827176
Oxygen and acetylene	2,0 (290)	2 x 10 (3/8)	15	2 x 10 (3/8)	1	K	26-30	30827476	30827376
Oxygen and LPG	2,0 (290)	2 x 10 (3/8)	15	2 x 10 (3/8)	1	K	26-30	30827676	30827576

100% recyclable.

## Stainless steel hose reel Series 888/889

Medium-sized open reels, the Series 889 reels are fitted with slightly larger drums and are therefore able to take a little longer hose than Series 888. These reels are ideal in environments with high humidity, where hygiene is of the utmost importance or where there is a risk of chemical attack. Thanks to the open design, the reels are very easy to service, maintain and keep clean. Can be installed on wall or on the ceiling.

- All components in stainless steel and chemically resistant composite.
- Open design for ease of cleaning.
- Outlet position can be adjusted through 120° for optimum pull-out and pull-in angle.



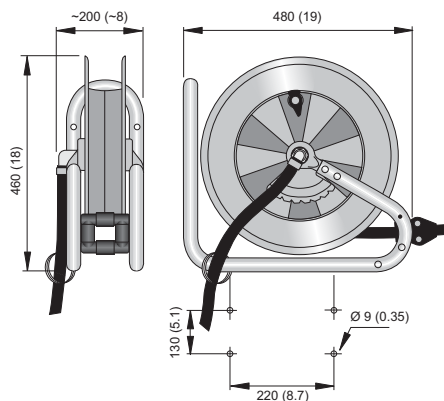
Media	Max. working pressure, MPa (psi)	Distribution hose, Int. Ø, mm (in)	Distribution hose, Length, m	Connection hose, Int. Ø, mm (in)	Connection hose, Length, m	Hose material	Hose type (see end of chapter)	Weight, kg	Reel with hose Part no.	Reel without hose Part no.
Water – food	2,0 (290)	12,5 (1/2)	10	12,5 (1/2)	1	Rubber	E	14-18	30803688	30803588
Water – food	2,0 (290)	12,5 (1/2)	15	12,5 (1/2)	1	Rubber	E	14-18	30803689	30803589
Water - HP	25 (3625)	10 (3/8)	15	10 (3/8)	1	Rubber	G	14-18	30803888	30803788
Water - HP	25 (3625)	10 (3/8)	20	10 (3/8)	1	Rubber	G	14-18	30803889	30803789

100% recyclable.

## Stainless steel hose reel Series 893

Medium-sized open reel in stainless steel which is ideal in environments with high humidity, where hygiene is of the utmost importance and there is a risk of chemical attack. Thanks to the open design, the reel is very easy to service, maintain and keep clean. Can be installed on wall or on the ceiling.

- All components in stainless steel and chemical-proof composite.
- Open design for ease of cleaning.
- Outlet position can be adjusted for optimum pull-out and pull-in angle.



Media	Max. working pressure, MPa (psi)	Distribution hose, Int. Ø, mm (in)	Distribution hose, Length, m	Connection hose, Int. Ø, mm (in)	Connection hose, Length, m	Hose material	Hose type (see end of chapter)	Weight, kg	Reel with hose Part no.	Reel without hose Part no.
Water – food	2,0 (290)	12,5 (1/2)	10	12,5 (1/2)	1	Rubber	E	14-18	30803293	30803193
Water - HP	25 (3625)	10 (3/8)	15	10 (3/8)	1	Rubber	G	14-18	30803493	30803393

100% recyclable.

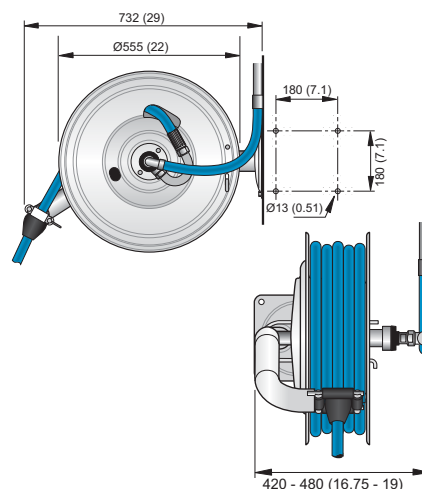


## Stainless steel hose reel Series 886



This hose reel, made entirely in stainless steel is specially manufactured for the food industry with its very demanding hygiene requirements. It is therefore very easy to clean thanks to its rounded edges with nowhere for bacteria to collect. The outlet is easy to remove for separate cleaning, as is the externally mounted swivel.

- Unique design for easy cleaning.
- Meets international hygienic requirements.
- Up to 25 m hose capacity.



### Reels without hose

Media	Max. working pressure, MPa (psi)	For hose dimensions, Int. Ø, mm (in)	For hose dimensions Length, m	Weight excl. hose, kg	Reel without hose Part no.
Water	2,0 (290)	19 (3/4)	18	28	30800186
Water	2,0 (290)	25 (1)	10	28	30802186
Water	10 (1450)	12,5 (1/2)	25	28	30800386
Water – HP	25 (3625)	10 (3/8)	25	28	30801386

### Hoses with galvanized steel fittings

Media	Max. working pressure, MPa (psi)	Hose type (see end of chapter)	Int. Ø, mm (in)	Distribution hose Length, m	Distribution hose Part no.	Connection hose Length, m	Connection hose Part no.
Water – food	2,0 (290)	E	12,5 (1/2)	25	30371898	1	30373670
Water – food	2,0 (290)	E	19 (3/4)	18	30371897	1	30373674
Water – food	2,0 (290)	E	25 (1)	10	30373663	1	30373664
Water – HP	25 (3625)	G	10 (3/8)	25	30371900	1	30344852

### Hoses with stainless steel fittings

Media	Max. working pressure, MPa (psi)	Hose type (see end of chapter)	Int. Ø, mm (in)	Distribution hose Length, m	Distribution hose Part no.	Connection hose Length, m	Connection hose Part no.
Water – food	2,0 (290)	F	12,5 (1/2)	25	30371951	1	30373671
Water – food	2,0 (290)	F	19 (3/4)	18	30371950	1	30373675
Water – food	2,0 (290)	F	25 (1)	10	30373665	1	30373666
Water – HP	25 (3625)	H	10 (3/8)	25	30371953	1	30373669

100% recyclable.



## Hose reel Series 889 Ex

Series 889 Ex is a medium-sized hose reel for industrial use. All major components are made of stainless steel or electrically conductive composite material, required for chemically aggressive and explosive environments. The design of the reel makes it easy to keep clean for installation in areas with strict hygiene requirements. Approved for installation in ATEX zones 1, 2, 21 and 22 in accordance with ATEX 94/9/EC. Equipment category 2GD, gas group IIB.



Media	Max. working pressure, MPa (psi)	Distribution hose, Int. Ø, mm (in)	Distribution hose, Length, m	Connection hose, Int. Ø, mm (in)	Connection hose, Length, m	Hose material	Hose type (see end of chapter)	Weight, kg	Reel with hose Part no.	Reel without hose Part no.
Air/water	2,0 (290)	12,5 (1/2)	15	12,5 (1/2)	1	Rubber	M	18	30804689	30804789

100% recyclable.

## Hose reel Series 886 Ex

Series 886 Ex is a large hose reel for industrial use where long hose lengths are needed. All major components are made of stainless steel or electrically conductive composite material, required for chemically aggressive and explosive environments. The design of the reel makes it easy to keep clean for installation in areas with strict hygiene requirements. Approved for installation in ATEX zones 1, 2, 21 and 22 in accordance with ATEX 94/9/EC. Equipment category 2GD, gas group IIB.



Media	Max. working pressure, MPa (psi)	Distribution hose, Int. Ø, mm (in)	Distribution hose, Length, m	Connection hose, Int. Ø, mm (in)	Connection hose, Length, m	Hose material	Hose type (see end of chapter)	Weight, kg	Reel with hose Part no.	Reel without hose Part no.
Air/water	2,0 (290)	12,5 (1/2)	25	12,5 (1/2)	1	Rubber	M	28-34	30804686	30804786
Air/water	2,0 (290)	19 (3/4)	15	19 (3/4)	1	Rubber	M	28-34	30804886	30804986

## Acid-resistant stainless steel hose reel Series 886

In very aggressive environments such as offshore production with a high salt content in the air, or in swimming pools and baths with a high chlorine content, or in other applications with aggressive substances, there may be a risk of corrosion with normal stainless steel (AISI 304 - SS 2333). For this type of application, Nederman offers a Series 886 Ex as shown above, but with all exposed components made of acid-resistant stainless steel, (AISI 316 - SS 2343) and chemically resistant composite. Approved for installation in ATEX zones 1, 2, 21 and 22 in accordance with ATEX 94/9/EC. Equipment category 2GD, gas group IIB.

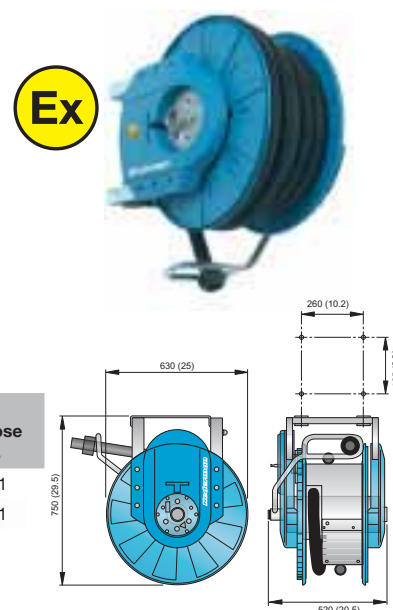
Media	Max. working pressure, MPa (psi)	Distribution hose, Int. Ø, mm (in)	Distribution hose, Length, m	Connection hose, Int. Ø, mm (in)	Connection hose Length, m	Hose material	Hose type (see end of chapter)	Weight/ kg	Reel with hose, Part no.
Air/water	2,0 (290)	10 (3/8)	25	10 (3/8)	1	Rubber	M	35	30806086
Air/water	2,0 (290)	12,5 (1/2)	25	12,5 (1/2)	1	Rubber	M	35	30806286
Air/water	2,0(290)	19 (3/4)	15	19 (3/4)	1	Rubber	M	35	30806486
Water – HP	25,0 (3625)	10 (3/8)	25	10 (3/8)	1	Rubber	H	35	30806686

## Vacuum hose reel Series 881 Ex

The Series 881 Ex vacuum hose reel facilitates the handling of long and heavy vacuum hoses, and provides tidy and safe storage when they are not in use. Reel fitted with automatic damper that opens and closes as the hose is operated in/out. The reel is also fitted with a micro-switch that signals to the dust extraction unit to start/stop when the hose

is operated in/out. Reel approved for installation in ATEX zone 22 in accordance with ATEX Directive 94/9/EC, equipment category 3D. Supplied with separate wall bracket for ease of installation.

- Antistatic.
- With built-in damper and micro-switch.
- ATEX-approved.



Max. suction, kPa (psi)	Hose dimensions, int. Ø, mm (in)	Hose dimensions, Length, m	Hose type (see end of chapter)	Weight, kg	Reel with hose Part no.	Reel without hose Part no.
45 (7)	38 (1 1/2)	10	L	26-28	30805881	30805981
45 (7)	50 (2)	10	L	26-28	30806081	30805981

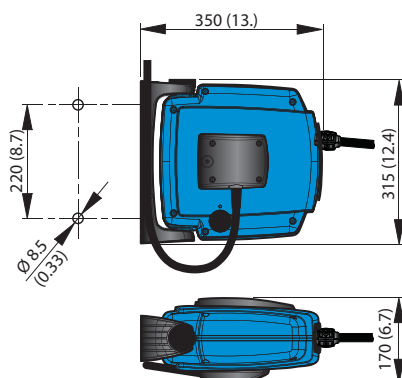
N.B. All reels are delivered without connection hose. 100% recyclable.

## Installation pack

The package includes all necessary installation material for pipe connections Ø 63 mm or Ø 100 mm (branch coupler, joint sleeves, connecting hose P63, brackets 300 mm, pilot cable, connection box, straps, hose clips).

Pipe system Ø, mm	Part no.
63	30374390
100	30374389

## Cable reel Series C20



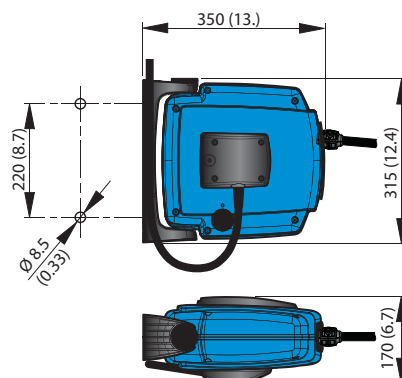
High-quality, functional and easy-to-use cable reel for industrial use or for DIY workshops. Robust design in high-impact composite materials. Fitted with a pivoting wall bracket that simply snaps onto the reel for ease of installation and a unique safety lock for secure service. Well-suited for use with electrical tools or hand lamps.

- Snap-on wall bracket.
- Unique safety ratchet.
- Drum with double ball-bearings.
- IP 55.
- Rubber cable.
- Cable easily replaced.

Voltage, V Input	Max. power W	Conductors, no. x mm <sup>2</sup>	Distribution cable, Length, m	Distribution cable, type	Connection cable, no. x mm <sup>2</sup>	Connection cable, length, m	Weight, kg	Part no.
230	2300	3G1.5	12	H07RN-F	3G1.5	1	~4	30700220
230	2300	3G1.5	12	H07RN-F	3G1.5	1	~4	30700420*
230	2300	3G2.5	12	H07RN-F	3G2.5	1	~4	30700620

\*Distribution cable with Euro female socket and connecting cable with Euro male plug, IP 44. 100% recyclable.

## Cable Reel Series C20 with lamp



Cable reel with LED or fluorescent hand lamp. The hand lamps are of a compact design with on/off switch, pivoting hook, shatterproof polycarbonate lens and ergonomic grip. The reel has an integrated transformer.

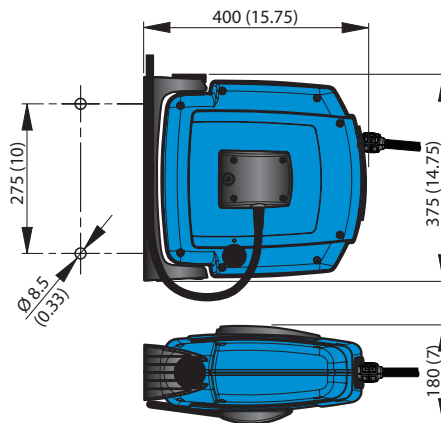
- Snap-on wall bracket.
- Unique safety ratchet.
- Drum with ball bearings on both sides.
- Protection level IP 55.
- Rubber power cable.

Voltage, V Input	Voltage, V lamp	Max. power W lamp	Lamp type	Conductors, no. x mm <sup>2</sup>	Distribution cable, Length, m	Distribution cable, type	Connection cable, no. x mm <sup>2</sup>	Connection cable, length, m	Weight, kg	Part no.
110-230	24	7	LED	2G1.0	12	H05RN-F	2G1.0	1	~5	30702020
110-230	24	11	Fluorescent	2G1.0	12	H05RN-F	2G1.0	1	~5	30702220

100% recyclable.

## Cable reel Series C30

High-quality, functional and easy-to-use cable reel for industrial use or for DIY workshops. Robust design in high-impact composite materials. Fitted with a pivoting wall bracket that simply snaps onto the reel for ease of installation and a unique safety lock for secure service. Well-suited for use with electrical tools or hand lamps.



- Snap-on wall bracket.
- Unique safety ratchet.
- Drum with double ball-bearings.
- IP 55.
- Rubber cable.
- Cable easily replaced.

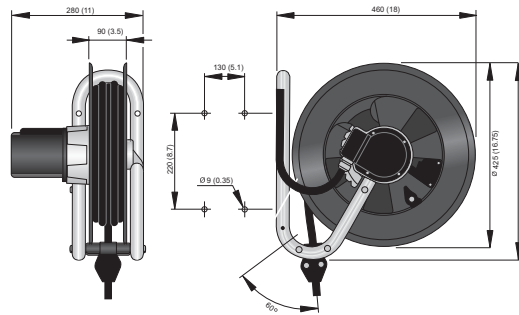


Voltage, V	Amperage, A	Max. power, W	Conductors, no. x mm <sup>2</sup>	Distribution cable, Length, m	Distribution cable, type	Connection cable, no. x mm <sup>2</sup>	Connection cable, length, m	Weight, kg	Part no.
230	10	2300	3G1.5	17	H07RN-F	3G1.5	1	~6	30700230
230	10	2300	3G1.5	17	H07RN-F	3G1.5	1	~6	30700430*
230	10	2300	3G2.5	17	H07RN-F	3G2.5	1	~6	30700630

\*Distribution cable with Euro female socket and connecting cable with Euro male plug, IP 44. 100% recyclable.



## Cable reel Series 793



A heavy duty cable reel for use in industrial environments. Available in 1-phase and 3-phase versions and supplied with thermal overload protector. Accommodates cables up to 25 m long. Components made of composite materials and galvanised steel.

- Protection level: IP 55.
- Tested and approved according to IEC 61316.
- Rubber cable.



Voltage, V	Amperage, A	Max. power, W	No. of phases	Conductors, no. x area, mm <sup>2</sup>	Distribution cable, length, m	Distribution cable, type	Connection cable, Length, m	Weight, kg	Reel with cable Part no.
230	16	3800	1	3G2.5	18	H07RN-F	1	14-16	30700293
230	16	3800	1	3G2.5	25	H07RN-F	1	14-16	30700493
400	10	6900	3	5G2.5	15	H07RN-F	1	14-16	30701293
400	10	6900	3	5G2.5	22	H07RN-F	1	14-16	30701493

100% recyclable.



## Balancer Series 810

Series 810 balancer makes the tool weightless and minimizes the strain on the operator. The balancer comes in three different models and in nine weight classes, with a span from 0.5 kg to 10.9 kg. Cover material, composite.



- Designed with safety-chain mounting point.
- Convenient snap-type tool clip .
- With clevis and pin shackle for quick and easy mounting.

Type	Lift power, kg	Cord length, m	Cord material	Part no.
A	0,5 - 0,9	1,6	Nylon cord	30800110
A	0,9 - 1,8	1,6	Nylon cord	30800210
B	1,8 - 2,7	2,0	Steel wire	30800310
B	2,7 - 3,6	2,0	Steel wire	30800410
C	2,7 - 4,0	2,0	Steel wire	30800510
C	4,0 - 5,9	2,0	Steel wire	30800610
C	5,9 - 8,2	2,0	Steel wire	30800710
C	8,2 - 10,9	2,0	Steel wire	30800810



## Balancer Series 831

The balancer supports the tool or hose and keeps it lifted at all times. An integrated centrifugal brake prevents the balancer from recoiling too quickly, which minimizes the risk of personal injury and material damage. Hoist length, 8m..


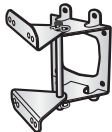













- Makes easier handling of tool or hose
- Safe operation.
- Exceptional hoist length.





Description	Capacity, kg	Part no.
Balancer, incl. ratchet	5-11	20800431
Balancer, incl. ratchet	7-15	20800631

Accessories	Part no.
Pivoting bracket	20331947
On/off switch	20374015



# Accessories

	Description	Part no.	
	<b>Pivoting wall bracket for Series 876, 883, 888, 889, 893 and 793</b> Hole spacing and dimensions for wall mounting are the same as on the reel foot plate		
	Galvanised	30372407	
	Stainless steel	30372408	
	<b>Pivoting wall bracket for Series 884 and 886</b>		
	Galvanised	30373667	
	Stainless steel	30373668	
	<b>Water nozzles</b>		
	Chrome plated brass. Blue Provided with safe hand grip and insulated trigger. Connection = 1/2" female BSP.	30400110	
	Stainless steel, quality 316. White. Provided with safe hand grip and insulated trigger. Connection = 1/2" female BSP.	30400210	
	For hot water. Stainless steel, quality 316. Red. Provided with safe and insulated hand grip and insulated trigger. Connection = 1/2" female BS.	30400310	
	EX approved by TÜV for use in Zones 1 and 2. Stainless steel, quality 316. Black. Provided with safe and insulated hand grip and insulated trigger. Connection = 1/2" female BSP.	30400211	
	<b>Compressed air gun</b>		
	With high blowing force and ergonomic design. Housing and trigger of POM / acetal plastic. Airpipe in galvanised steel. Connection = 1/4" female BSP.	30410110	
	<b>Swivelling high pressure couplings – adapter / adapter – 25 MPa (3625 psi)</b>		
	3/8" male BSP – 3/8" male BSP – Plated steel	30431310	
	3/8" male BSP – 3/8" male BSP – Stainless steel	30431410	
	<b>Swivelling low pressure couplings – adapter / adapter – 2.0 MPa (290 psi)</b>		
	1/2" male – 3/8" female – brass	30431510	
	1/2" male – 1/2" female – brass	30431610	
	1/2" male – 3/4" female – brass	30431710	
	1/2" male – 3/8" female – stainless steel	30431810	
	1/2" male – 1/2" female – stainless steel	30431910	
	<b>Fluorescent lamp - delivered without power cable.</b>		
	230 V AC, 50 Hz, 11 W	30420110	
	24 V AC, 50 Hz, 11 W	30420210	
	Includes: 1/2" BSP inlet, swivel 45°, flexible outlet with manual non-drip nozzle. Connection: 1/2" male BSP. N.B. Handle with locking device.	30502050	

Description	Part no.	
<b>Digital oil control meter</b>		
Complete 1/2" BSP inlet, swivel 90°, flexible outlet with manual non-drip nozzle. Flow rate from 1 to 35 l/min. Precision ± 0.5 %. Maximum working pressure: 70 bar. Standard 1/2" swivel connector. Connection: 1/2" male BSP.	30508250	
Pre-set meter, 1/2" BSP inlet, swivel 90°, flexible outlet with manual non-drip nozzle. Flow rate from 1–30 l/min. Precision ±0.5 % over the entire flow capacity range. Maximum working pressure: 65 bar. Maximum pre-selectable quantity 99.9 litres. 5-digit LCD display. Connection: 1/2" male BSP.	30508350	
<b>Guns for multi fluids</b>		
Manual gun for water/anti-freeze. Connection: 3/8" female BSP.	39900007	
Digital control meter for anti-freeze and brake fluid, complete, 1/2" inlet, swivel 90°, flexible outlet with manual non-drip nozzle. Flow rate from 1 to 35 l/min. Precision ± 0.5 %. Maximum working pressure: 70 bar. Connection: 1/2" male BSP.	30508650	

## Hose Specifications


Hose type	Specification	Temperature range, °C	Hose fittings in free hose end, distribution hose	Hose fittings in free hose end, inlet hose	Hose connection on reel, distribution hose	Hose connection on reel, inlet hose
A	Cover in PVC and inner tube in PUR. Synthetic textile braid	-10 – +60	Male 1/4" brass. With spiral hose protector	–	–	Hose nipple 3/8" + clip
B	Cover in NBR / PVC and inner tube in NBR. Synthetic textile braid	-30 – +100	Male, chrome plated	–	Hose nipple + clip	Hose nipple 1/2" + clip
D	Cover in NBR / PVC and inner tube in NBR. Synthetic textile braid	-30 – +100	Male, chrome plated	–	Hose nipple + clip	Hose nipple + clip
E	Cover in NBR / PVC and inner tube in food grade quality NBR. Synthetic textile braid	-20 – +100	Male 60° cone, chrome plated	Female 60° cone, chrome plated	Male 60° cone	Male 60° cone
F	Cover in NBR / PVC and inner tube in food grade quality NBR. Synthetic textile braid	-20 – +100	Male 60° cone, stainless steel	Female 60° cone, stainless steel	Male 60° cone	Male 60° cone
G	Cover and inner tube in synthetic rubber. Single steel braid	-40 – +155	Female 60° cone, chrome plated With rubber hose grip	Female 60° cone, chrome plated	Male 60° cone	Male 60° cone
H	Cover and inner tube in synthetic rubber. Single steel braid	-40 – +155	Female 60° cone, stainless steel. With rubber hose grip	Female 60° cone, stainless steel	Male 60° cone	Male 60° cone
I	Cover and inner tube in SBR based rubber. Single steel braid	-40 – +100	Female 60° cone, chrome plated	Female 60° cone, chrome plated	Male 60° cone	Male 60° cone
J	Cover and inner tube in synthetic, oil resistant rubber. Double steel braid	-40 – +100	Female 60° cone, chrome plated	Female 60° cone, chrome plated	Male 60° cone	Male 60° cone
K	Cover and inner tube in rubber, synthetic textile braid (acc. to EN-559)	-20 – +80	–	–	Hose nipple + clip	Hose nipple + clip
L	Corrugated ethyl vinyl acetate (EVA). Electrically conductive	-40 – +70	–	No inlet hose included	Included for Ø 38 mm and Ø 50 mm	Ø 63 mm
M	Cover in CR and inner tube in NBR. Synthetic textile braid Electrically conductive	-30 – +80	Female 60° cone, stainless steel	Female 60° cone, stainless steel	Male 60° cone	Male 60° cone

N.B. Thread dimensions of hose fittings are always the same as the hose dimension, unless otherwise stated.

## Spare parts Hose and cable

Media	Series	Max. working pressure	Hose dimension		Hose length	Replacement hose	Replacement part, hose stop
		MPa	in	mm	m	Part no.	Part no.
Air/water	H20	1,2	1/4	6,3	12	30374566	30345942
Air/water	H20	1,2	5/16	8,0	8	30374567	30345944
Air/water	H30	1,5	5/16	8,0	12	30374568	30345944
Air/water	H30	1,5	3/8	10,0	10	30374569	30345946
Air/water	888, 883 & 893	1,5	3/8	10,0	15	30333282	30343541
Air/water	888, 883 & 893	1,5	1/2	12,5	10	30372458	30343540
Air/water	889	1,5	3/8	10,0	20	30374120	30343541
Air/water	889	1,5	1/2	12,5	15	30374121	30343540
Air/water	884	1,5	1/2	12,5	20	30371379	30344963
Air/water	884	1,5	1/2	12,5	30	30372229	30344963
Air/water	884	1,5	3/4	19,0	15	30371380	30344965
Air/water	884	1,5	1	25,0	10	30371381	30344967
Water – food	888 & 893	2,0	1/2	12,5	10	30371537	30344963
Water – food	889	2,0	1/2	12,5	15	30372435	30344963
Water – food	884	2,0	1/2	12,5	20	30371287	30344963
Water – food	884	2,0	3/4	19,0	15	30371288	30371945
Water – food	884	2,0	1	25,0	10	30371289	30344967
Water – food	886 (with galvanized steel fittings)	2,0	1/2	12,5	25	30371898	30344963
Water – food	886 (with galvanized steel fittings)	2,0	3/4	19,0	18	30371897	30371945
Water – food	886 (with galvanized steel fittings)	2,0	1	25,0	10	30373663	30344967
Water – food	886 (with stainless steel fittings)	2,0	1/2	12,5	25	30371951	30344963
Water – food	886 (with stainless steel fittings)	2,0	3/4	19,0	18	30371950	30371945
Water – food	886 (with stainless steel fittings)	2,0	1	25,0	10	30373665	30344967
Water – HP	883	25,0	3/8	10,0	13	30344097	30371753
Water – HP	888, 888 SS, 893 and 893 SS	25,0	3/8	10,0	15	30371539	30341342
Water – HP	889	25,0	3/8	10,0	18	30372436	30341342
Water – HP	889 SS	25,0	3/8	10,0	20	30374266	30341342
Water – HP	884	25,0	3/8	10,0	25	30344851	30341342
Water – HP	888 (with galvanized steel connectors)	25,0	3/8	10,0	25	30371900	30371943
Water – HP	888 (with stainless steel fittings)	25,0	3/8	10,0	25	30371953	30371943
Oil	883, 888 & 893	7,5	1/2	12,5	10	30341384	30343540
Oil	889	7,5	1/2	12,5	15	30372439	30343540
Oil	884	7,5	1/2	12,5	20	30344853	30344963
Oil	884	7,5	1/2	12,5	30	30372011	30344963
Oil	884	5,0	3/4	19,0	15	30344969	30344966
Oil	884	5,0	1	25,0	10	30371861	30344967
Grease	883, 888 & 893	35	1/4	6,3	15	30341392	30371753
Grease	883, 888 & 893	35	3/8	10,0	10	30371863	30343851
Grease	883, 888 & 893	35	3/8	10,0	15	30371541	30343851
Grease	884	35	1/4	6,3	25	30345161	30341342
Oxygen / acetylene	876	2,0	2 x 1/4	2 x 6,3	20	30373402	30344230
Oxygen / acetylene	876	2,0	1/4 + 3/8	6,3 + 10	15	30373401	30344231
Oxygen / acetylene	876	2,0	2 x 3/8	2 x 10	15	30371383	30344231
Oxygen / LPG	876	2,0	2 x 3/8	2 x 10	15	30371384	30344231
Vacuum	881	45 kPa	1,5	38,0	10	30374173	30346586
Vacuum	881	45 kPa	2,0	50,0	10	30374174	30346586





## Lubrication systems for cleaner and economical work.

To handle oil, grease and various fluids effectively, you need special equipment. Our systems for distributing oil, grease and other liquids reduce wastage, give practical and ergonomic benefits and enable control of consumption. Our solutions are used in places like service workshops for cars, trucks, civil engineering and agricultural machinery.

We will help you all the way:

- Design
- Planning
- Installation
- Service and maintenance

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## LUBRICATION SYSTEMS

# Pumps

Pneumatic and manual pumps for grease, oil and other liquids.



The pumps can be wall-mounted or placed directly on the drum/tank. With the aid of special accessories, many application areas can be supported.

**When choosing a pump, it is important to consider the following factors:**

- Type liquid, and viscosity.
- Distance between pump and draining points.
- Pressure of liquid for type of application.

## Pneumatic pumps

Pneumatic oil pumps are ideal for transferring medium to high-viscosity liquids like oil, transmission oil, ATF oil and other related products.

## Pneumatic pumps



Ratio	1:1	3:1	5:1	65:1	3:1	5:1	6:1	65:1	3:1	1:1	1:1	1:1
Capacity	18 l/min	12 l/min	14 l/min	1000 g/min	20 l/min	40 l/min	23 l/min	1200 g/min	23 l/min	60 l/min	53 l/min	23 l/min
Media	Max. length											
Low-viscosity liquids: various low-viscosity oils (SAE 15/20), hydraulic oil and related products.	< 15 m	< 50 m	50-100 m		50-100 m	100-200 m	> 150					
Medium-viscosity liquids: engine oil, gearbox oil (SAE 15/140), etc.	< 15 m	< 50 m	50-100 m		50-100 m	100-200 m	> 150					
High-viscosity liquids: engine oil, gearbox oil (SAE 240), etc.	Media	< 50 m	50-100 m		50-100 m	50-100 m	100-200 m					
Medium to high- viscosity grease				< 50				50-100 m				
Antifreeze									100-200 m			
Windscreen fluid									100-200 m			
Waste oil/Antifreeze										50-100 m	50-100 m	100-200 m
Part no. Wall mounting	30599050	30599150	30509350	30599650	30580750	30599550	39100005	30509050	30581950	30507950	30582050	30508950
Part no. Drum mounting	-	30599250	30599450	30599750	30580850	-	39100022	30509850	30581850	-	-	-



# Pumps

Pneumatic and manual pumps for grease, oil and other liquids.

## Accessories

There are lots of connection kits and add-on products for ease of installation.



Media	Connection kit, air	Oil pump connection kit 1/2" 1.8 m	Oil pump connection kit 1/2" 4 m	Oil pump connection kit 1" 1m	Suction pipe kit HP	Suction pipe kit LP	Drum connection, 42 mm	Top connection	Extension, 500 mm pipes	Extension, 200 mm pipes
Oil	x	x	x	x	x	x	x	x	x	x
Grease	x									
Antifreeze	x				x	x	x	x	x	x
Windscreen fluid	x				x	x	x	x	x	x
Waste oil/ Antifreeze	x			x						
Part no.	30512150	30511950	30500550	30511850	L 940 mm / 30580950 L 1695 mm / 30581050	30581150	30501150	30580650	30580450	30580550



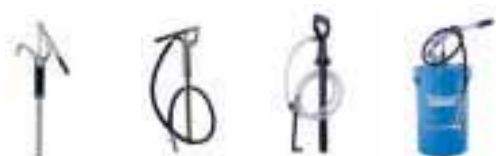
Media	Extension bar	Foot connection	Blow-back valve	Filter	Pressure relief valve	Ball Valve with filter 27 bar	Evacuation kit	Extraction kits with probes	Sump oil filter	Drum lid	Follower plate	Ball Valve
Oil	x	x	x	x	x	x						
Grease										x	x	x
Antifreeze	x	x	x	x	x	x						
Windscreen fluid	x	x	x	x								
Waste oil/Antifreeze							x	x	x			
Part no.	30580350	30580250	30580150	30599950	30501350	1/2" / 30592050 3/4" / 30591950 1" / 30592150	30581650	30581750	30594550	Ø310 / 30593450 Ø350 / 30503550 Ø420 / 30503650 Ø600 / 30503750	Ø310 / 30593550 Ø340 / 30503850 Ø400 / 30503950 Ø585 / 30504050	30592250

## Manual pumps – single or double-action

Excellent for transferring low-viscosity liquids like engine oil. Telescopic suction pipe enables direct use on drums or cans.

When choosing a pump, it is important to consider the following factors:

- Type of liquid, and viscosity.
- Quantity of liquid per stroke.



Media	Capacity			
	300 ml/stroke	300 ml/stroke	100 ml/stroke	7.5 g/stroke
Low-viscosity liquids: various low-viscosity oils (SAE 15/20), hydraulic oil and related products.	x	x	x	
Medium to high-viscosity grease				x
Part no.	30501550	30501650	30581250	30504450

# Meters and dispensers

For lubrication and service in the automotive, industrial, shipping, agricultural, aviation and mining industries. Our robust and easy-to-use hand meters are specially developed for measuring and dispensing oil and similar liquids.

- Robust and reliable measuring and dispensing grip.
- Dispensing grip for: engine oil, gearbox oil, transmission oil, glycol, washer fluid etc.



## Manual control oil gun



Capacity	NA	NA	1-30 l/min	1-35 l/min	1-30 l/min	1.5-15 l/min
Nozzle	Manual	Automatic	Automatic	Manual	Manual	Manual
Outlet angle	90°	90°	90°	90°	90°	Straight
Digital / Mechanical			Digital	Digital	Digital	Mechanical
Pre-set					x	
Media						
Oil	x	x	x	x	x	x
Grease						
Antifreeze	x	x				
Windscreen fluid						
Brake fluid						
Water						
Part no.	30502050	30582750	30582850	30508250	30508350	30508450

## Manual control oil gun



Capacity	1.5-15 l/min	NA	NA	NA	1-35 l/min	1-35 l/min	NA
Nozzle	Manual	4-jaw	4-jaw	NA	Manual	Manual	NA
Outlet angle	Straight	Straight	Straight		90°	45°	NA
Digital / Mechanical	Mechanical				Digital	Digital	NA
Pre-set	x						
Media							
Oil	x						x
Grease		x	x				
Antifreeze					x		x
Windscreen fluid						x	
Brake fluid					x		x
Water				x			
Part no.	30508550	30504150	30593650	39900007	30508650	30594650	30592850

## Accessories



Media	Drip pan	Outlet hose 45°	Swivel	Outlet hose 135°	Extension hose, grease handle	4-point grease nozzle	Drain cock	Digital meter	Connection hose, lubricated
Oil	x	x	x	x			x	x	x
Grease	x				x	x			
Antifreeze	x	x	x	x					x
Windscreen fluid	x								
Part no.	30505650	30375944	30591550	30375945	30597450	30591650	30593350	30592950	30344854



## Lubrication systems mobile units

Manually controlled drum trolleys and small mobile tanks are suitable for effective handling of low, medium and high-viscosity oils, fluids and greases. Flexible mobile units in a range of specifications that can feed new or remove old waste fluids of all kinds in an environmentally friendly way.

### Units that carry new oil, liquids and greases.



Ratio	NA	NA	3:1	3:1	3:1	NA	NA	50:1	50:1	50:1
Capacity	NA	NA	12 l/min	12 l/min	12 l/min	NA	NA	800 g/min	800 g/min	800 g/min
Drum size	60 kg	220 kg	60 L	208 L	208 L	30 L	30 L	20-30 kg	50-60 kg	180-220 kg
Media										
Low-viscosity liquids: various low-viscosity oils (SAE 15/20), hydraulic oil and related products.			x	x	x	x	x			
Medium-viscosity liquids: engine oil, gearbox oil (SAE 15/140), etc.			x	x	x					
Medium to high-viscosity grease								x	x	x
De-greasing agent (non toxic)							x			
Part no.	30505150	30508750	30505750	30505850	30505950	30594950	30581550	30505450	30505250	30505350

### Units to remove waste.



Volume	18 L	65 L	90 L	90 L	95 L	65/90 L	80 L	65 L	95 L	65 L
Direct drum	x									
Pressure evacuation		x	x	x						
Pump evacuation		(x)	(x)	(x)	x	(x)	x	x	x	x
Combination unit				x		x				
For greasing pit, min./max. width									1030/1450mm	800/1400mm
Part no.	30501950	30593150	30502250	30502350	30599850	30502650	30581350	30593250	30581450	30593050

### Accessories



Media	Quick connection, 3/4" (F)	Quick connection, 3/4" (M)	Quick connection, 1" (F/M)	Glycol return pump kit	Filter material
Antifreeze	x	x	x	x	x
Waste oil	x	x	x		x
Part no.	30591150	30591250	30593750	30596850	30594750

For rapid emptying of waste oil from the vehicle with or without a hoist. The units are emptied neatly either directly with a pressure valve or with an evacuation pump.

## Complete solutions for storing and distributing oil, lubricants and other fluids and for handling sump oil.



### Waste oil rail.

Waste oil rail system and automatic transfer to waste oil tank. The Nederman fixed waste oil system includes a unit with a pivoting arm and a collection pan. This is mounted on a fixed rail system to provide complete mobility in the greasing pit and is easy to stow away to make space.



### NMS

For complete control of your oil and fluid handling. NMS records the quantities delivered to each vehicle – data that can be used in billing. You can also pre-set the exact volume needed for a particular work order.



### Tanks and tank monitoring equipment

Central storage to hold oil, waste oil and other liquids for all the workshop's needs.

Local regulations for the storage of different types of liquid must be observed. This includes the material and design of the tanks and their position.



### Service tower

A freestanding, space-saving workstation with an integrated workbench.

All equipment for lubrication, air, electricity, dust and exhaust extraction is easily accessible.

Please contact us  
for more information.



## Practical curtains for protecting work areas.

Sometimes you need to divide up work areas. This is true, for example, of auto body repair workshops for grinding and welding work. With Nederman curtains it is easy to create spaces to protect against reflection, splashing, grinding, dust and welding. Our range includes solutions for every need. Our Self-extinguishing PVC curtains are available in various heights and can be snapped together to achieve the desired width. The curtain screens can act as both temporary or permanent curtains and do not need any fixed installation. A popular alternative are our motorised curtains that can be installed on walls or on the ceiling.

- Curtains in standard sizes
- Movable curtain screens
- Motorised curtains for fixed installation

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## WORKPLACE SCREENS



# Curtains

## Curtains



Standard sized curtains (see below) provided with 50 mm welded seam all around and with snap-fasteners on both sides for joining to obtain total desired width. Supplied with reinforced holes in the upper edge and steel suspension rings. All standard curtains are made of pliable self extinguishing PVC material with flash point 320-390°C. Width: 1400 mm, Thickness: 0.40-0.50 mm. The Nederman yellow and clear transparent curtains are used for glare, splatter, grinding, dust etc. but are not aimed for welding, unlike our EN1598 compliant curtains that are ideal for welding applications.

Colour	Height, mm	Approvals	Part no.
<b>Dark green</b> (black), opaque	1800	EN 1598	60313124
Dark green (black), opaque	2400	EN 1598	60313125
Dark green (black), opaque	2800	EN 1598	60313126
Dark green, transparent	1800	EN 1598	60313424
Dark green, transparent	2400	EN 1598	60313425
Dark green, transparent	2800	EN 1598	60313426
<b>Red/orange</b> , transparent	1800	EN 1598	60313324
Red/orange, transparent	2400	EN 1598	60313325
Red/orange, transparent	2800	EN 1598	60313326
<b>Bronze</b> , transparent	1800	EN 1598	60313224
Bronze, Transparent	2400	EN 1598	60313225
Bronze, Transparent	2800	EN 1598	60313226
<b>Yellow</b> , transparent	1800	-	60313524
Yellow, Transparent	2400	-	60313525
Yellow, Transparent	2800	-	60313526
<b>Clear</b> , transparent	1800	-	60313624
Clear, transparent	2400	-	60313625
Clear, transparent	2800	-	60313626

Steel suspension rings included. PVC rings available as accessories. Total width of curtains shall be 10% longer than total required screening length to compensate for folding.

## Replacement parts

Description	Part no.
<b>PVC rings, pack of 7</b>	60344976
<b>Steel rings, pack of 7</b>	60064850

## Curtain screen



The protective curtain screens are easily movable for welding, grinding, turning, milling etc., and are ideal for the screening of temporary or permanent work places. The frame is manufactured from galvanised tube and the curtain of self-extinguishing PVC material (as the standard curtains above) and complying with EN 1598 for welding. Delivered complete with frame and curtain with total dimensions WxH=2000 x 2000 mm (just curtain H=1700 mm). Weight 7.5 kg.

Colour	Approvals	Part no.
<b>Dark green</b> (black), opaque	EN 1598	60931067
<b>Dark green</b> , transparent	EN 1598	60931068
<b>Red/orange</b> , transparent	EN 1598	60931069

## Motorised curtains



Motorised curtains are very practical, e.g. in vehicle repair shops and industrial premises where you want to divide the space into several separate areas. Motorised curtains are supplied with an opaque grey lower part and a transparent top, so the light can flow freely between the different areas. Motorised curtains are supplied as a complete set, ready for installation on a wall or on the ceiling. The motor is supplied with an operation box for adjustment up and down (manual operation).

### Technical specifications

- Electrical unit 230 V, 50 Hz, 160 W, 0.8 A.
- Adjustable upper and lower limits for the curtain.
- Speed: H = 3 000 mm, T = 25 sec.
- Bracket: Combined wall and ceiling bracket in galvanised steel.
- Rod: Ø 120 mm.

Description	Width, mm	Height, mm	Colour	Part no.
<b>Motorised curtains</b> complete with control unit	2000	3000	grey, transparent	60700001
	4000	3000	grey, transparent	60700002
	5000	3000	grey, transparent	60700003
	7000	3000	grey, transparent	60700004







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for more information  
on our products and  
complete solutions.

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