

FilterMax F

Modular dust collector with integrated pre-separator



FilterMax F is a complete filter solution for the entire workshop. With its integrated preseparator the FilterMax F is ideal for applications with fume and coarse particles. FilterMax F is an efficient and compact filter with capacity up to 10 000 m³/h (6000 cfm) The FilterMax F is designed for industrial handling of non explosive dry dust and fume. The compact and efficient integrated pre-separator captures up to 80% of coarse particles and heavy sparks which will extend the lifetime of the filter cartridge. The small inner volume in combination with the air distributing support cage gives efficient cleaning. Shallow open pleats allows efficient removal of dust. The cartridges are available in different materials. The flat pocket shaped minimizes the area of the "lost" media on top of the cartridge.

With its sturdy design, smooth inner surfaces, optimized angles of repose and digital control system, the filter fulfills stringent demands for continuous operation and effective filtration.

The modular design makes it easy to expand the capacity of an installed system and will also make transportation, handling and installation as easy as possible. To simplify use and guarantee optimum performance, FilterMax F is equipped with Nederman's automatic cleaning system. The pulse-jet system shoots short, powerful jets of air into the filter cartridges. The dirt is released from the filter surface and falls down into a container. The pulse-jet system cleans the filter cartridges in sequence while the filter is in operation.

The FilterMax F can also be cleaned after operation if so desired.

The FilterMax F cartridge is a high performance, compact filter cartridge. The design is optimized for efficient media usage with good cleaning properties.

To configure your Filtermax

1. Select model (DFO 40, 80 or 120)
2. Select inlet diameter
3. Select outlet diameter
4. Select container kit
5. Select Filter cartridge type
6. Select accessories

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- Pulse-jet cleaning system
 - Pulse-jet cleaning system
 - Integrated pre-separator / spark trap






Product name	FilterMax F
Noise level (dB(A))	F 30, 50 dBA F 60, 63 dBA F 90, 73 dBA Acc to ISO 11203
Protection class	IP 54
Filter efficiency (%)	99
Compressed air requirement	4–6 bar / 60 - 90 psi, water and oil free
Compressed air consumption	70 N-litres/min at 30 sec intervals, 35 N-litres/cleaning pulse 2.5 cfm/min at 30 sec intervals, 1.25 cfm/cleaning pulse
Installation	[Indoor], [Outdoor]
Material	3 mm painted steel, epoxy based zinc primer and top coat (C4 acc. to EN ISO 12944)
Filter cleaning method	Pulse jet
Application	[dust], [fumes]
Working pressure (kPa)	0 to - 5,0, not over pressure
Capacity (max airflow m3/h)	F 30 - 3 500 m3/h F 60 - 7 000 m3/h F 90 - 10 000 m3/h
Operating Temperature	-20°C to +60 C Process air, 0°C to +60 C

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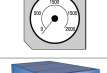
Frequency (Hz)	50/60
Filter type	[cartridge]
Control Voltage (V)	110V, 120V, 230V



FilterMax F

Image	Description	Number of filter elements	Weight (kg)	Model
	Filtermax FO 30	6	615	12603567
	Filtermax FO 60	12	890	12606567
	Filtermax FO 90	18	1150	12609567
	Container kit 2 x 40 lit / 2 x 10.5 gal. Including adapter.			12373881
	Container kit on wheels, 2 x 100 lit / 2 x 26.5 gal. Including adapter and extension legs.			12373897

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	Accessory	Part No
	Inlet: Connection diameter Ø250 mm / 10"	12373561
	Inlet: Connection diameter Ø315 mm / 12"	12373562
	Outlet: Connection diameter Ø400 mm / 16"	12373566
	Inlet: Connection diameter Ø500 mm / 20"	12373564
	Outlet: Connection diameter Ø500 mm / 20"	12373567
	Inlet: Connection diameter Ø400 mm / 16"	12373563
	Outlet: Connection diameter Ø315 mm / 12"	12373565
	Filter cartridge, 10m ² / 108 ft ² , PW NS-75-10-6, (6-pack) / W3. PTFE impregnated (Non-Stick), spun bound polyester. Suitable for fumes and fine to medium dust. Efficiency 99% at 0.5 µm.	12373161*
	Filter cartridge, 10m ² / 108 ft ² , PW-PTFE-75-10-6 (6-pack) (NA900), PTFE membrane, laminated to spun bound polyester. Suitable for fine to medium particles. Efficiency 99.9% at 0.5 µm.	12375388*
	Shut off valve An air venting type. Should be installed in the compressed air pipe line. Is used to shut off the compressed air supply before any service on the system is done.	12372083
	Extra dust container (incl. lid) 100 lit / 26.5 gal	12373899
	Extra dust container 40 l / 10.5 gal..	12373898
	Pressure switch for compressed air Protects the filter from damage during use without compressed air. Must not be placed in explosion risk areas.	12372142
	Filter regulator Is used for setting the correct air pressure. Separates dust in the pressured air why it also protects the valves. Should be installed in the compressed air pipe line. Must be positioned in a frost free environment.	12372064
	Pressure gauge kit Measures the pressure drop over the filter cartridges. Is mounted on the FilterMax stand.	12372063
	Filter module, for additional capacity, max 4 modules in one unit.	12373946
	FilterMax F W3 kit. The kit includes dP Control kit, filter regulator, shut off valve, flashlight and plastic bags for the dust containers. With this kit the FilterMax F is BGIA-certified for the highest available welding fume category (W3).	12375079**
	dP Control kit. Is used for controlling the cleaning more efficiently and with better supervision. Saves pressured air in some applications with intermittent load. Equipped with alarm functions for high pressure drop over the filter cartridges.	12373603

*Only for ordering with a FilterMax F. Part numbers for replacement filter cartridges can be found in the instruction manual or www.nederman.com.

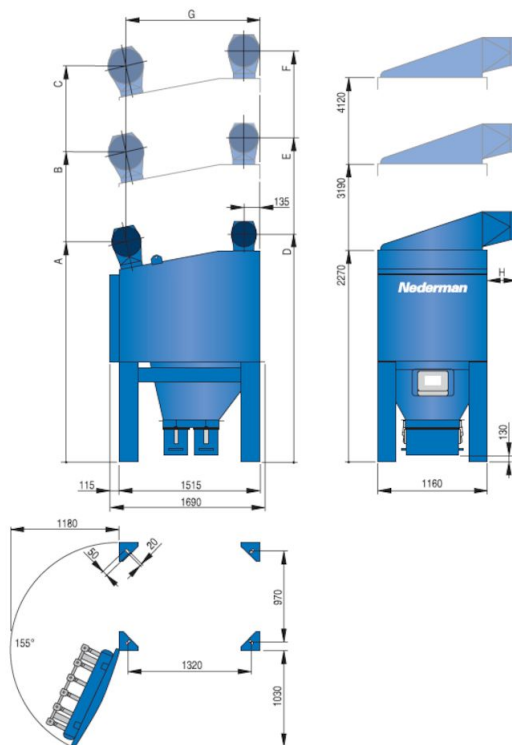
**Welding fume category W3 means that the unit is able to reliably extract and clean low, medium and highalloyed steels, e.g. containing a part of nickel and chrome of 30% and more with a separation efficiency of ≥99%. With this kit the FilterMax F is certified according to the international effective standard DIN EN ISO 15012-1 (2005) that controls industrial and health protection for welding and related processes and the requirements, examination and identification of air cleaning systems.

FilterMax F

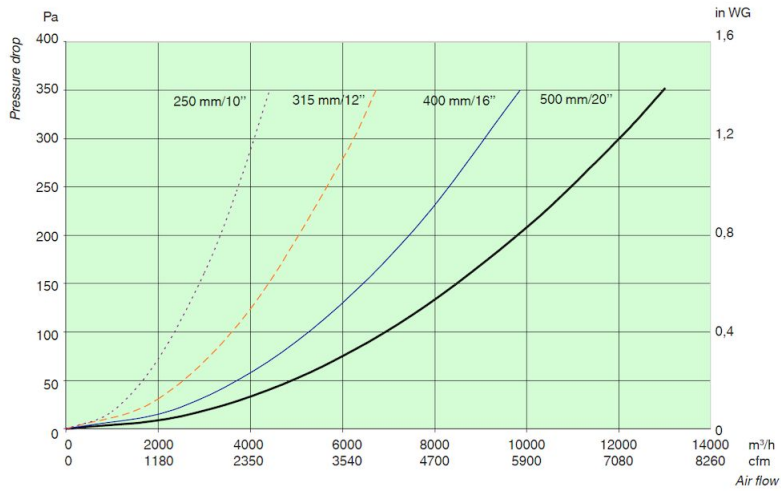
Inlet/Outlet inner diameters (mm / inch)				
	250 / 10	315 / 12	400 / 16	500 / 20
A	-	2375 / 93 ½	2440 / 96	2565 / 101
B	-	3300 / 130	3365 / 132 ½	3490 / 137 ½
C	-	-	4290 / 169	4415 / 174
D	2450 / 96 ½	2560 / 101	-	-
E	3370 / 133	3480 / 137	3540 / 139 ½	-
F	-	4410 / 174	4470 / 176	4600 / 181
G	-	1430 / 56 ½	1445 / 57	1465 / 57 ½
H	275 / 11	325 / 13	395 / 15 ½	445 / 17 ½

The height dimensions are valid with a 40 l / 10.5 gallon bin.

If a 100 l / 26.5 gallon bin is used add 450 mm / 18".



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Pressure drop for Inlet and outlet. Actual working pressure will depend on application and dimensioning.
Dimensional typical pressure drop for FilterMax 1200 Pa (5" WG)