

Dust collectors range



Model	Air Flow (m ³ /h)	MAXI Load of dust (g/m ³)	Release rate (mg/m ³)	Filter element	APPLICATIONS
Aqualine®	2 000 40 000	5	40	Wet scrubber	Fatty and sticky dust
Neumatic® JK	300 600	30	1	Cartridge	All type of dust excluding sticky dust
Deltajet®	2 200 9 000	5	0,5	Rigid element	Chemical/ Pharmaceutical
Jetline® CH	1 000 15 000	30	5	Pocket	All type
Jetline® E	500 6 000	30	5	Pocket	All type
Jetline® K	2 000 30 000	5	1	Cartridge	All type excluding sticky dust
Jetline® K Compact	2 000 6 000	5	1	Cartridge	All type excluding sticky dust
Jetline® V	5 000 100 000	100	5	Bag	All type
Jetline® VR	8 000 80 000	5	2	Bag	Paper
Neumatic® JE	600 4 500	1 000	5	Pocket	All type
Neumatic® JR	600 3 500	1 000	0,5	Rigid element	Chemical/ Pharmaceutical
Neumatic® JK	300 1 000	5	1	Cartridge	All type excluding sticky dust
Poluclean® SI	1 000 4 000	2	1	Multi-pocket	All type – discontinuous process
Separoboïs® M	4 000 50 000	300	2	Bag	Wood
Separoboïs® P	6 000 20 000	300	2	Pocket	Wood

AQUALINE[®] HE (High Efficiency) WET SCRUBBER



Recommended for the treatment of air charged with wet, hygroscopic, sticky, oily, incandescent or explosive dust

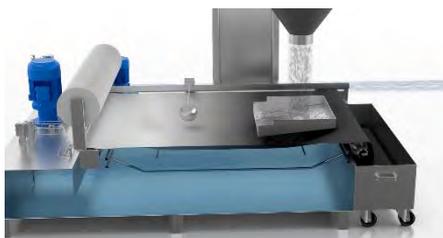
- + The AQUALINE HE[®] is a wet scrubber type using water as filtration method
- + Filtration efficiency : more than 99 % depending on the nature of the dust.

OPERATING PRINCIPLE

- + The gas to be cleaned is admitted axially into the fan impeller where it is firstly washed through water microdroplets. The incandescent particles are immediately extinguished.
- + When passing through the fan impeller, the gas and the water mix together allowing the gas to be washed of a large part of its dust. In the casing, the gas is further washed as it passes through the blade impeller. Furthermore, the dust is centrifuged against the wet wall of the separator.
- + The air / water separator installed after the fan completes this dust removal. From a dedusting point of view, it operates as a wet separation cyclone



WATER TREATMENT AFTER SEPARATOR



Through a paper filter



Through a baffled clarifier



Evacuation to water treatment site plant

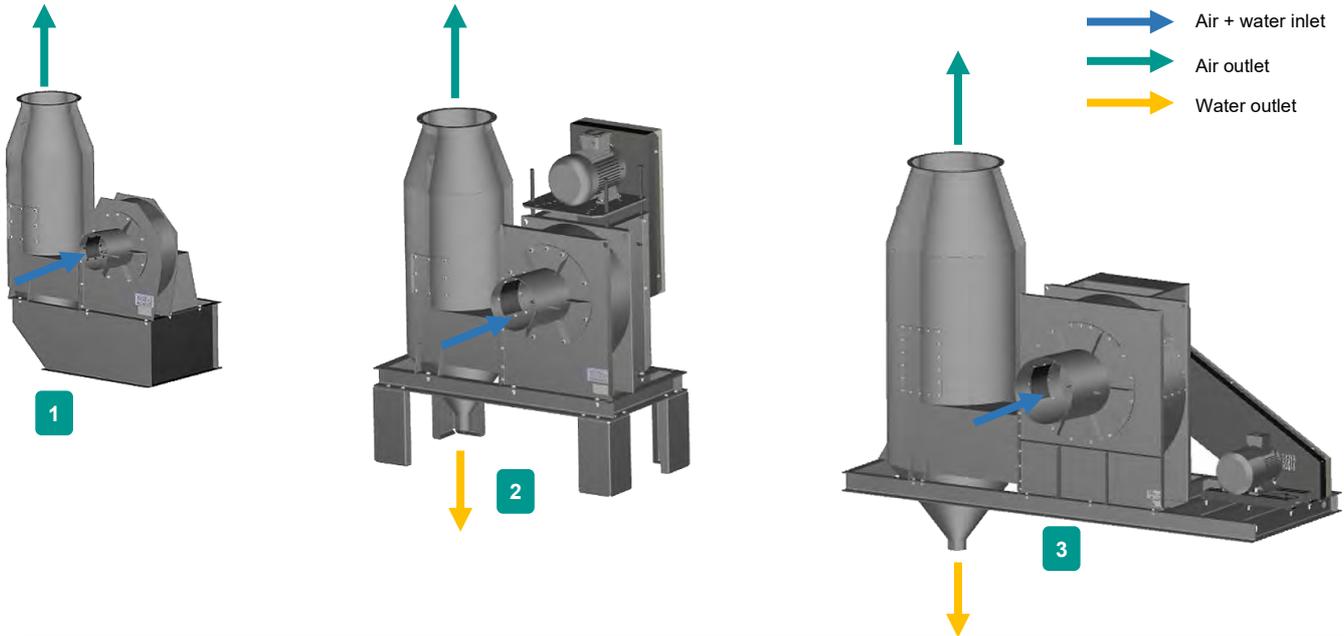
CHARACTERISTICS

- + Flow rates : 2 000 to 63 000 m³/h
- + Power from 2,2 kW to 132 kW
- + Water consumption : 0,15 l/m³ of air
- + Possibility to recycle dirty water at the water separator outlet
- + Different versions: steel, 304 stainless steel, 316L stainless steel

ADVANTAGES

- + Suppression of fire and explosion risks
- + Filtration of mixed pollutants: dust + water, dust + oil
- + Low internal pressure drop of around 40 daPa
- + No consumable items as on filter media dust collectors
- + Dirty water recycling to process in option

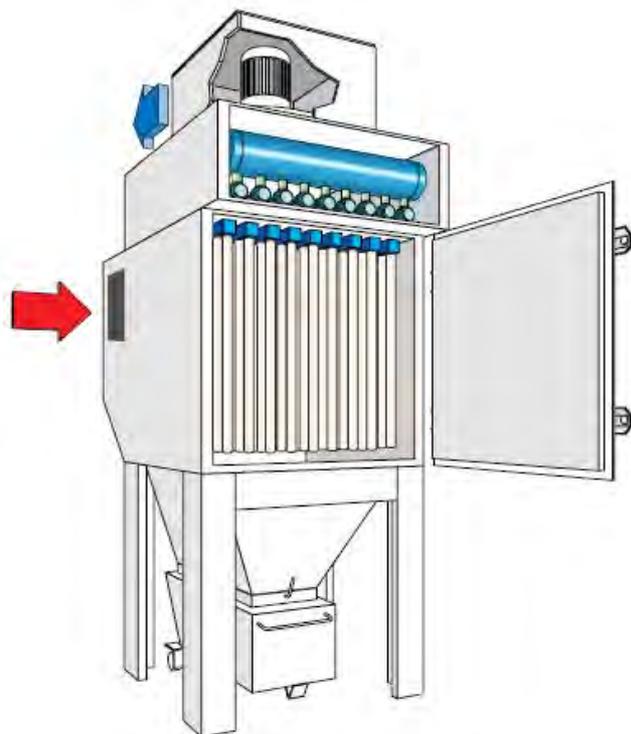
RANGE - DIMENSIONS



AQUALINE® HE	Separator Nbr	Motor (kW)	Air flowrate (m ³ /h)	Model	Height (mm)	Width (mm)	Length (mm)	Weight (kg)
31 – 0,7	50	2,2	2 200	1	1 530	850	1 300	150
	56	4	2 800		1 663		1 330	180
40 – 0,7	63	5,5	3 600	2	1 395	1 070	1 510	350
		7,5	4 000		1 540		400	
50 – 0,7	71	9	5 750	2	2 175	1 270	2 010	520
	80	15	6 500		2 370		720	
		18,5	7 000		740			
63 – 0,7	90	15	9 100	2	2 715	1 510	2 395	750
	100	22	10 050		2 932		920	
			30	11 500	3		2 880	1 505
80 – 0,7	112	22	14 100	3	3 215	1 940	3 875	1 500
	125	30	16 000		3 580		1 620	
		45	18 000		1 720			
100 – 0,7	140	37	22 000	3	4 000	2 225	4 910	2 250
	160	55	26 000		4 560		2 500	
		75	29 000		2 600			
120 – 0,7	180	55	36 200	3	5 120	2 615	6 045	3 450
	200	75	39 500		5 680		4 050	
		110	36 600		4 700			
140 – 0,7	220	75	53 000	3	6 280	3 120	6 805	5 450
	240	110	58 000		6 800		5 620	
		132	63 000					

DELTAJET®

DUST COLLECTOR FOR FINE DUST



Recommended for fine and difficult dust, even with a high concentration

Dust collector equipped with rigid filter elements with skin effect. Exceptional filtering efficiency even on submicron particles.

RANGE

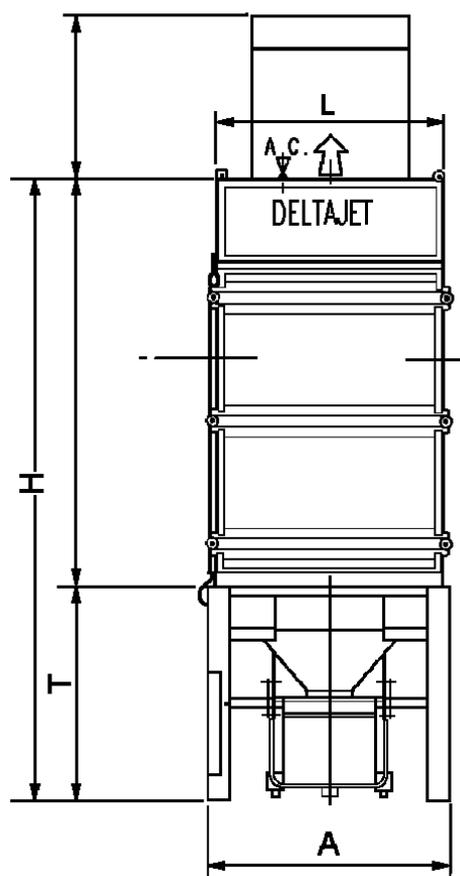
- + Filter area from 22 to 120 m²
- + Standard and ATEX versions

CHARACTERISTICS

- + Chemical agent resistant.
- + Cleanable with warm water. (excluding high pressure)
- + Long life of the filter elements.
- + Compact equipment.
- + Low adherence of the dust cake to the PTFE microporous membrane of the filter element.
- + Automatic compressed air cleaning system.
- + Continuous operation.
- + Release rate < 1 mg/ m³. Air recycling without secondary filtration.
- + Air temperature limited to 70°C.



RANGE



DELTAJET®	Filter elements		Dimensions				Weight kg			Compressed air consumption (Nm ³ /h) **
	Area m ²	Number	L	A	H	T	S ₁ *	S ₂ *	V*	
23	22,92	5	918	1010	3195	1015	448	602	829	3,6
38	38,20	8	918	1010	3195	1015	494	648	875	6
60	61,12	10	1198	1290	3310	1130	667	843	1070	9,7
75	76,40	12	1198	1290	3310	1130	728	904	1131	12
90	91,68	16	1198	1290	3310	1130	777	953	1180	14,5
120	122,24	5	1910	2000	3195	1015	1094	1409	1863	19,3

* S₁ = Without hopper, without fan - * S₂ = With hopper, without fan - * V = With hopper, fan and noise hood

** Consumption of dry and oil free for cleaning cycle every 4 minutes and pressure of 6 bars

JETLINE® CH

DUST COLLECTOR FOR FINE DUST



Recommended for the treatment of air containing fine, dry, non-fibrous dust

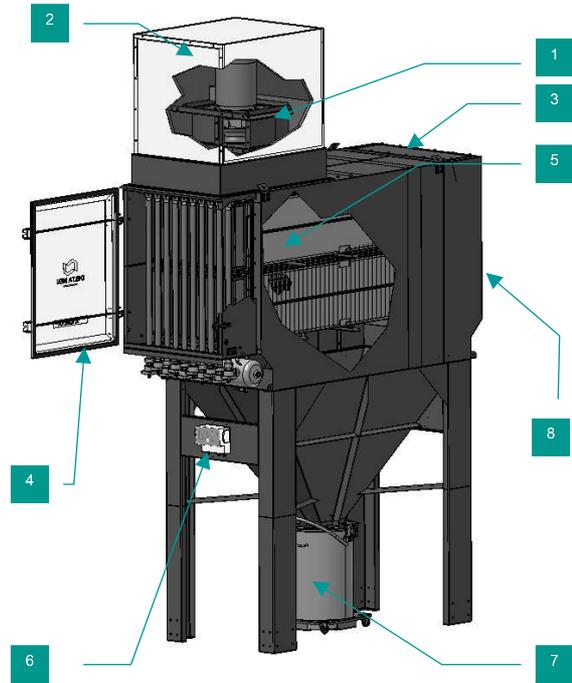
- + The **JETLINE® CH** is a dust collector for continuous filtration at high-speed of atmospheres containing high concentrations of dust in almost all industrial applications.
- + A compact and modular design ideal for installation in restricted areas
- + Configuration and control of the system components (fan, rotary valve, emission probe, air pulse cleaning system, level probe ...) through the **NEUSMART** box
- + Available in ATEX version with explosion vents located at the rear or on top

ADVANTAGES



- + A high-performance filter media able of guaranteeing a very low dust release of a few mg / Nm³
- + Compact equipment with its integrated fan
- + Easy maintenance with lateral extraction of filter elements
- + Some models can be equipped with the NEUSMART control panel and its touch screen to set the cleaning cycles, register the pressure drop and the relaxed dust and also program the maintenance phases. In option : air flowrate controller to ensure a regular flowrate
- + A safe dust collection system

1	Fan
2	Soundproofing
3	Dust-laden air input (top or rear)
4	Access door
5	Filter bags
6	Sequential controller
7	Collection bin
8	Explosion vent (rear or top)



CHARACTERISTICS

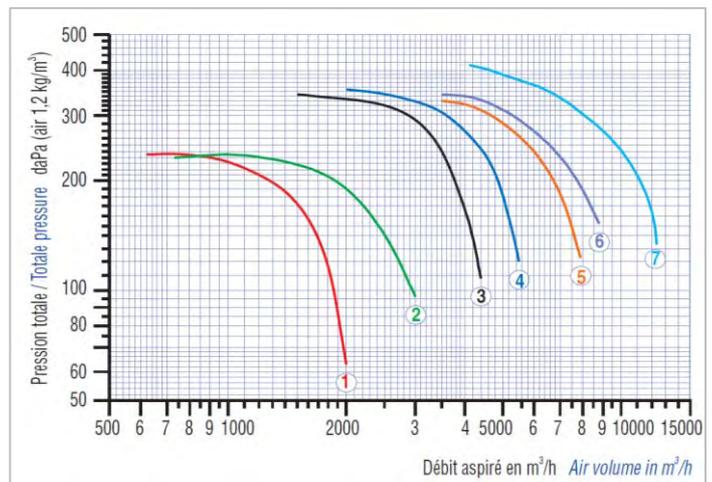
- + Treated air flow : 1 000 à 20 000 m³/h
- + Fan power : 2,2 à 11 kW
- + Filtering surface from 10 to 120 m²

RANGE

Model	Surface (m ²)	Width (mm)	Length (mm)	Height without fan (mm)	Height with fan (mm)	Weight	
						With fan (kg)	Without fan (kg)
Jetline CH 10	10	1 050	1 550	2 175	2 785	525	410
Jetline CH 20	20	1 050	1 550	2 695	3 465	720	640
Jetline CH 30	30	1 050	2 100	3 025	4 095	990	860
Jetline CH 40	40	1 050	2 700	3 285	4 355	1 210	990
Jetline CH 45	45	1 050	2 100	3 550	4 615	1 200	980
Jetline CH 60	60	1 050	2 700	3 800	5 270	1 440	1 290
Jetline CH 80	80	2 100	2 700	3 585	-	-	1 580
Jetline CH 90	90	2 100	2 100	3 900	-	-	1 700
Jetline CH 120	120	2 100	2 700	4 100	-	-	2 030

PERFORMANCE CURVES

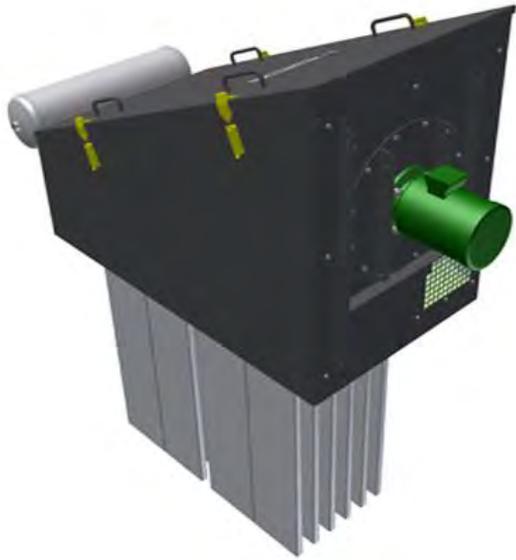
JETLINE® CH	Curve n°	Power (kW)	Sound Level dB(A)	
			Without acoustic hood	With acoustic hood
10	1	2,2	82	64
10/20	2	2,2	76	60
20/30	3	5,5	81	65
30	4	5,5	69	57
30/40/45	5	7,5	74	57
40/45/60	6	9	79	60
60	7	11	75	65



The following performance curves show the air flow available at fan inlet according to the pressure loss of the system (120 to 150 daPa are necessary for the filter bag and possible accessories). The fan outlet Nbr 5, 6, and 7 must be connected on a pipe to reduce the pressure loss of the outlet.

JETLINE® E

BUILT-IN DUST COLLECTOR FOR SILOS AND BELT CONVEYORS



DESCRIPTION

JETLINE® E is ideally designed to be incorporated into silos, hood of belt conveyors. It filters the dusty air while re-injecting dust into the production cycle.

DESIGNED FOR

- + Clean and safe working conditions
- + Operator protection
- + Conformity to applicable regulations

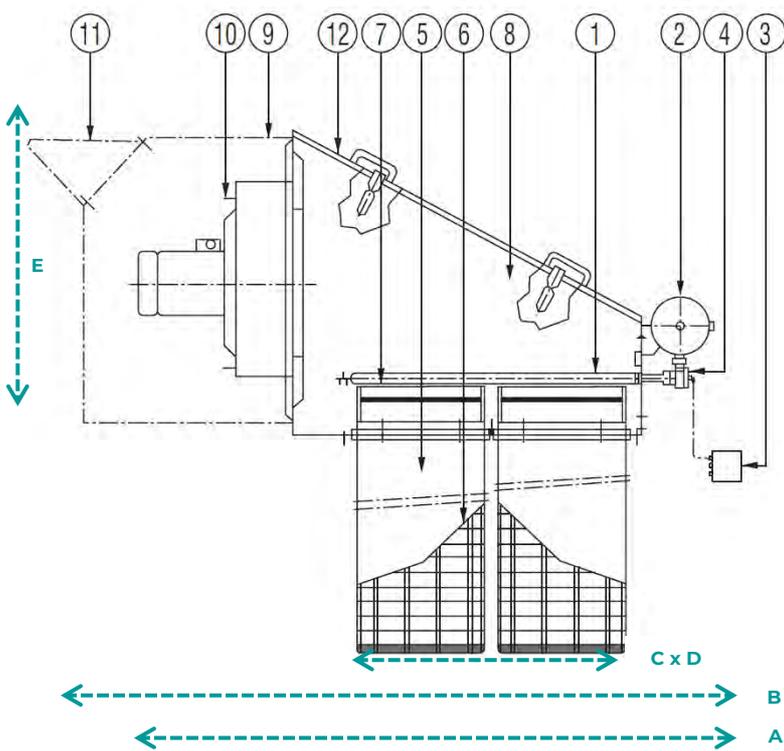
(articles R. 4222-10 et R. 4412-149. of « Code du Travail »)

ADVANTAGES

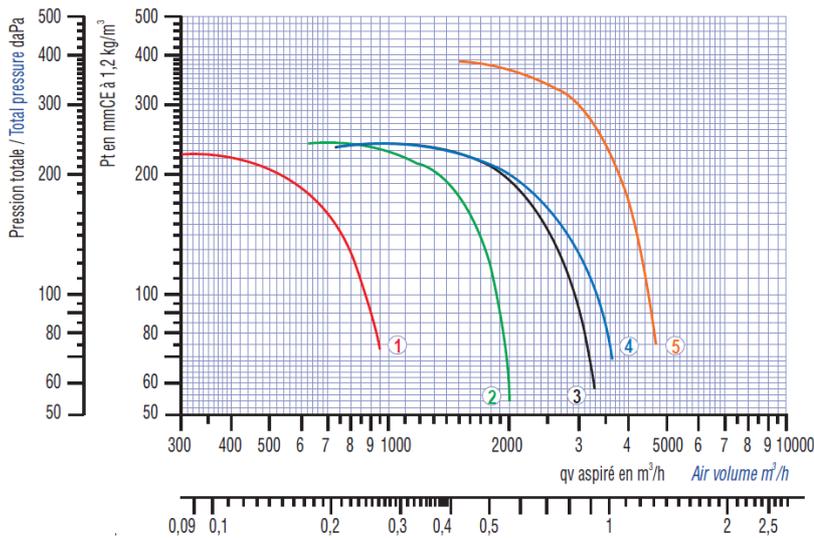
- + Wide range of filtering surfaces
- + Compact housing with or without incorporated fan
- + Fully removable top panels
- + Dust recycling : can be directly sent back to the conveyor



JETLINE® E on silo



1	Blowing tubes
2	Compressed air tank
3	Electronic sequencer
4	Pneumatic valves
5	Filter bags
6	Formers
7	Venturi (incorporated to the formers)
8	Sheet metal housing
9	Sound protection (in option)
10	Fan
11	Rain protection (in option)



DIMENSIONS

	6	9	12	18	20	30	45
A (mm)	1393	1393	1911	1911	2130	2130	2660
B (mm)	2587	1587	2105	2105	2295	2295	2825
C (mm)	514	514	1032	1032	1032	1032	1568
D (mm)	642	642	642	642	888	888	888
E (mm)	998	998	998	998	998	998	998

RANGE

Model	Number of bag filter	Filtering area (m ²)	Motor power (kW)	Weight with fan (kg)	Sound pressure level dB(A) at discharge				Curve nr
					without noise hood		with noise hood		
					at 3 m	at 1 m	at 3 m	at 1 m	
6	6	6	1.5	200	83.5	93	65.5	75	1
9	6	9	1.5	217	82	91.5	64	73.5	2
12	12	12	2.2	271	76	85.5	59	68.5	3
18	12	18	2.2	301	76	85.5	59	68.5	3
20	20	20	2.2	400	81	90.5	65	74.5	4
30	20	30	5.5	448	81	90.5	65	74.5	5
45	30	45	5.5	601	81	90.5	65	74.5	5

JETLINE® K Compact DUST COLLECTOR FOR FINE DUST



Recommended for treating air with fine, dry, non-fibrous dust

- + **JETLINE® K Compact** is a **cartridge dust-collector** especially designed for treating fine, dry, non-fibrous dust.
- + **Applications:** food processing, machining, welding and cutting operations (laser, plasma), etc.
- + Exhaust rate **less than a mg/m³** depending on the dust type.
- + Setting and control of the dust-collector equipment (fan, sensors, filter-cleaning, etc.) from the NEUSMART control panel.
- + **ATEX version** available (standard or indoor vent).

ADVANTAGES

- + High filtration level: Pleated filter media for optimum filtration
- + Air recycling (F8 efficiency - finishing filter in option)
- + Compact, plug and play unit (integral control panel and fan)

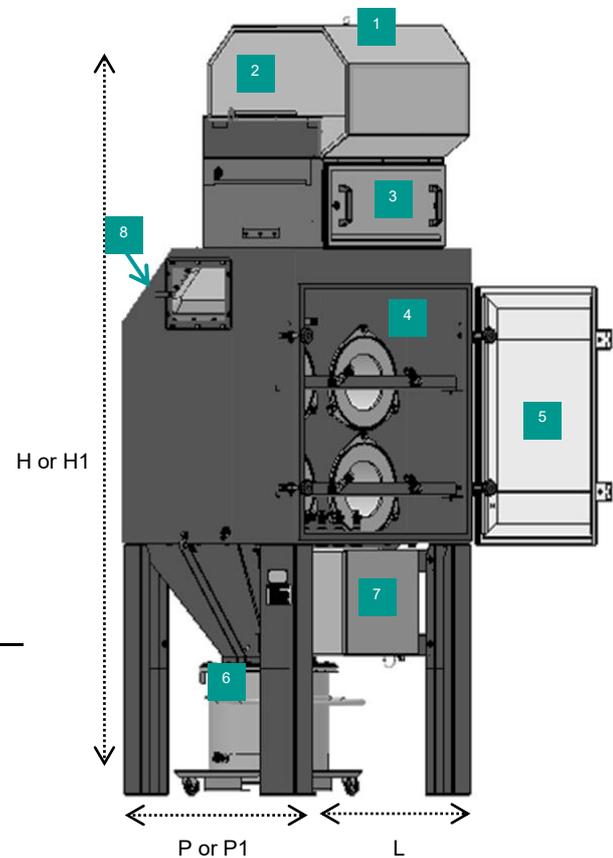


In conformity with standard EN 60335-2-69



- + Integrated cleaning valve on the compressed air tank for optimising energy consumption.
- + Easy to maintain with clean extraction of filter cartridges.
- + Equipped with a touch screen NEUSMART control panel to set cleaning cycles, pressure drop and dust discharge, and for programming your maintenance phases. In option: air flowrate controller to ensure a regular flowrate
- + Safe dust collection system (option)

1	Silencer
2	Fan
3	Secondary filter housing (option)
4	Filter housing
5	Access door
6	Dust collection drum
7	NEUSMART control panel
8	Explosion vent (option)



CHARACTERISTICS

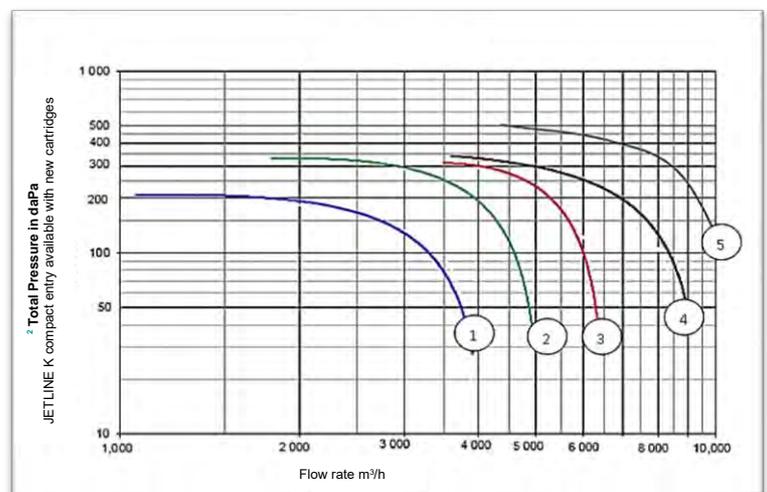
- + Treated air flow: 2,000 to 6,000 m³/h
- + Fan power : 2.2 to 11 kW
- + Sound pressure level at 1m < 81 dB(A) +/- 2 dB (in compliance with standard NF EN ISO 3744)
- + Power supply: 3 x 400V – 50Hz
- + Options: Discharge sensor type DEM30 / Secondary filter / Standard or indoor explosion vent / Manual isolating valve under hopper / Flow regulator

AVAILABLE MODELS

Model	Surface (m ²)	VERSION WITHOUT SECONDARY FILTER				VERSION WITH SECONDARY FILTER		VERSION WITH INDOOR VENT	
		Length L (mm)	Depth P (mm)	Height H (mm)	Weight (in kg)	Height H1 (mm)	Weight (in kg)	Depth P1 (mm)	Additional weight (in kg)
JK COMPACT 40 / 50	40 or 50	1 040	950	2 715	490	2 925	515	1 310	60
JK COMPACT 80 / 100	80 or 100	1 040	1 550	3 050	665/675	3 390	735 / 740	1 935	74
JK COMPACT 120 / 150	120 or 150	1 520	1 700	3390/3675	860/900	3830/4120	920 / 990	1 940	165

AIR FLOW CURVES

Model	Curve nr	Power (kW)	Sound level dB(A) ¹
JKC 40/50	1	2,2	65
JKC 80/100/120/150	2	5,5	71
JKC 80/100/120/150	3	7,5	72
JKC 120	4	7,5	77
JKC 120	5	11	81



¹ Sound pressure level in free field at 1 meter, extraction connected, in compliance with NF EN ISO 3744

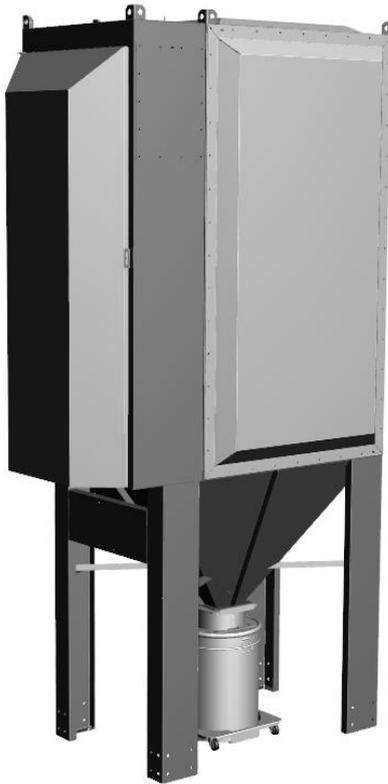
² Add the pressure drop of the filter media (80 daPa) to the calculation of the pressure drop

JETLINE® K

DUST COLLECTOR FOR FINE DUST

To protect people and their environment against the dispersion of fine and dangerous particles.

- + The **JETLINE® K** is a dust collector with automatic compressed air cleaning. It operates constantly, providing maximum filtration, particularly in the case of fine dust.
- + **Type of dust treated:** food (chocolate, flour, milk powder), metal, polymer powder, polyurethane brass, zirconium silicate, aluminum oxide, fiberglass, plaster, carbon, plastic, wood, silica, polyethylene, concrete, composite, pigment ...



TRIOPTICLEAN® system



A simple, clean system for removing cartridges in a plastic bag.



A downward flow between the cartridges facilitates settling of dust in the hopper..



Optimal cleaning to eliminate all dust accumulation on top surface

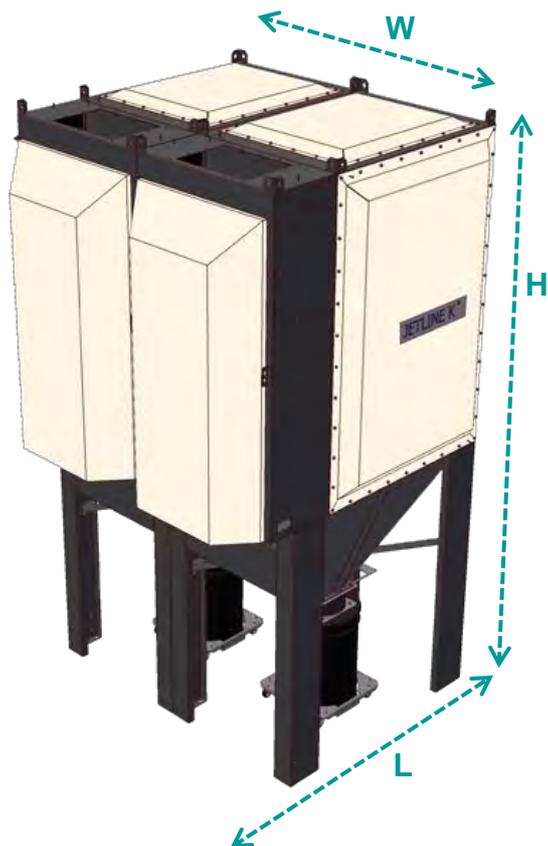
APPLICATIONS

- + Filtration of aluminum dust during finishing operations
- + Filtration of steel dust
- + Dust removal on laboratory work stations
- + Collection of dust released by tools
- + Dust extraction on sorting station
- + Dedusting from laser cutting, plasma or welding processes.



RANGE

A standard range of filter areas from 80 to 480 m² provides solutions for numerous applications.



Model	Area m ²	L (mm)	W (mm)	H (mm)	Weight (kg)
80	80	2 060	1 170	3 020	730
120	120	2 060	1 170	3 520	800
160	160	2 060	1 170	4 020	1 050
240	240	2 060	2 170	3 520	1 440
320	320	2 060	2 170	4 020	1 820
360	360	2 060	3 170	3 520	2 250
480	480	2 060	3 170	4 020	2 650

OPERATING PRINCIPLE

- + Round horizontally-mounted cartridges ensure optimum filter efficiency.
- + The clean air is then directed out of the dust collector.
- + Cleaning is by a very short burst of compressed air inside the filter cartridge.
- + This cleaning system ensures there is a stable pressure drop across the filter elements, with optimum consumption of compressed air.
- + Some models can be equipped with the NEUSMART control panel and its touch screen to set the cleaning cycles, register the pressure drop and the released dust and also program the maintenance phases. In option : air flowrate controller to ensure a regular flowrate

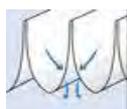
CHARACTERISTICS

- + Choice of media to withstand temperatures up to 80°C.
- + Reduced pressure drop.
- + Pre-assembled and wired in our factory.
- + Choice of clean air outlet positions: top or side.
- + Modular construction for unlimited range of sizes.
- + Optional “Bag-in / Bag-out” arrangement for toxic or hazardous applications.
- + Easy access for clean cartridge replacement – no special tools required.
- + ATEX version with venting on top.

Filter medium efficiency of more than 99.9 % on dust between 0.2 and 2 µm in accordance with

EFFICIENCY

The NEU cartridge is manufactured from non-woven polyester with a mattress of heat-fused fibres across the whole surface. The perfectly even structure guarantees optimal filtration.



Standard filter media



Filter media with wave form

EASY MAINTENANCE

No tools are required to remove the cartridges. The cartridge removal holder is supplied with the dust collector. As an option, we can supply our “Bag-in / Bag-out” system.

SAFETY

The **JETLINE® K** can be fitted with devices to reduce the risk of explosion: antistatic filter cartridges, earthing of metal parts to reduce the effects of electrostatic charge, explosion venting on the top.

JETLINE® V

DUST COLLECTOR FOR FINE DUST



To protect operators and his natural environment, to clean the atmosphere, to reduce the maintenance costs of equipment, to collect dust when it is valuable

- + The **JETLINE® V** is an automatic compressed air cleaning filter with vertical needlefelt sleeves supported on rigid cage inserts made of corrosion proof steel wire.
- + Its design and performance allow it to deal with most cleaning and dusting problems for any type of dust.
- + Easy maintenance operations thanks to its automation.
- + High efficiency : capture the thinnest dust and neutralise some gaz (CHI, SOX, HF,..) by the injection of neutralising agent upstream of the dust collector.
- + **ATEX** version available.

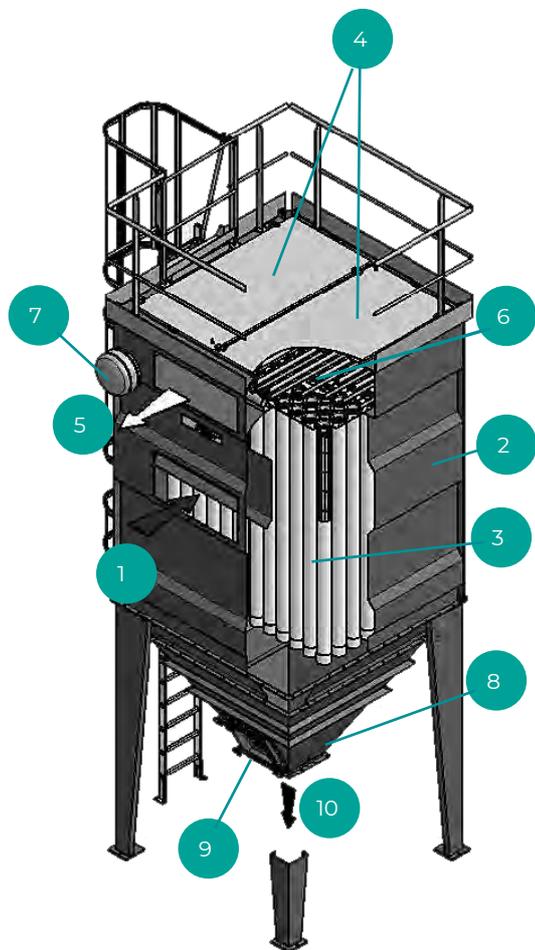
APPLICATIONS

- + Process dust extraction on weigh station, bag emptying stations, tipping station, etc.,
- + Automatic drilling unit centralised extraction,
- + Dust extraction on furnace, melting pots, pressing machines, etc.,
- + Dust extraction for mills, crusher, screens, conveyors, bucket elevator, etc.,
- + Cleaning of floors and processes with vacuum cleaning system,
- + Dust extraction on fragmentation towers, dryers, pelletisers, bagging, etc,
- + Dust extraction and filings on polishing drum, back stand, etc.



The manufacturer formally reserves the right to make any modifications it considers suitable to its models.

DESCRIPTION



1	Dust-laden air inlet
2	Filter plenum
3	Filter elements
4	Access hatch
5	Clean air outlet
6	Compressed air unclugging system
7	Compressed air reservoir
8	Hopper
9	Inspection hatch
10	Dust outlet

OPERATING PRINCIPLE

- + The dust-laden air enters the filter through a lateral plenum which enables the contaminant to be distributed over the whole length of the dust filter. A deflector prevents the dust from hitting the filter bags directly.
- + An initial separation of the coarsest dust takes place in the filter hopper and filter body.
- + Then, the dust-laden air passes through the filter bags from the outside to the inside, depositing the dust on the outside of the filter media.
- + The cleaned air is then collected in the upper clean air plenum, which is either connected to the extraction fan or to the atmosphere.
- + Cleaning of the filter media is by means of bursts of compressed air directed into each row of filter bags through a high-efficiency unclugging venturi for a fraction of second. The bags are cleaned by a combination of sudden inflation and air flow reversal.
- + After each burst of compressed air, the released dust falls into the hopper and can be evacuated or recycled by a suitable airtight mechanism.

ADVANTAGES

- + Wide range of filter media depending on the gas and dust content to be filtered.
- + Reduced pressure drop.
- + Low operating costs (cleaning system with the energy saver and the use of the high capacity fan).
- + Pre-assembled and pre-wired in our workshop.
- + Choice of the position of the clean air outlets: roof or side.
- + Modular construction.
- + Easy maintenance operations.
- + ATEX Version.

Filtration $\geq 99,9\%$
on dust between
0,2 and 2 μm
according to EN
60 335-2-69.

RANGE

Filtering surface m ²	45	54	90	108	135	162	59	70	117	140	176	210	150	180	224	270	300	360	374	450	448	540
Sleeve length mm	2500						3250						4150									
Nber of modules	1		2		3		1		2		3		2		3		4		5			
Type (*)	L	C	L	C	L	C	L	C	L	C	L	C	L	C	L	C	L	C	L	C	L	C
Nber of valves	5	6	10	12	15	18	5	6	10	12	15	18	10	12	15	18	20	24	25	30	30	36
Weight kg	1690	1750	2450	2500	3300	3400	1850	1900	2650	2760	3600	3700	3000	3100	4000	4200	5650	5900	6750	7050	7700	8050

Type (*) : L = Large C = Compact

NEUMATIC® JK8 – JK16

HIGH-VACUUM UNIT



Suitable for cleaning floors, production machinery and portable tools

The **NEUMATIC® JK** unit comprises

- + A filter vessel with filter elements cleaned with compressed air
- + A vacuum unit (low flow at high vacuum pressure)
- + An electrical cabinet to control operation, vacuum unit protection and unclogging of filter elements within the filter vessel.



ATEX VERSION

In ATEX version, the NEUMATIC® JK can be used to extract dust with a risk of explosion. It is then equipped with devices allowing:

Reduction of explosion risk

- + Antistatic filter cartridges
- + Grounding of metal parts

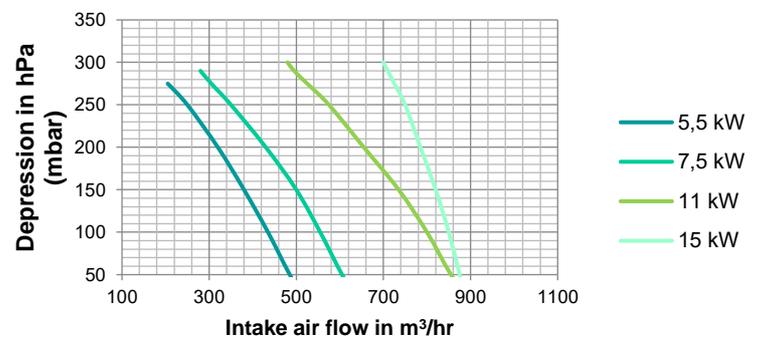
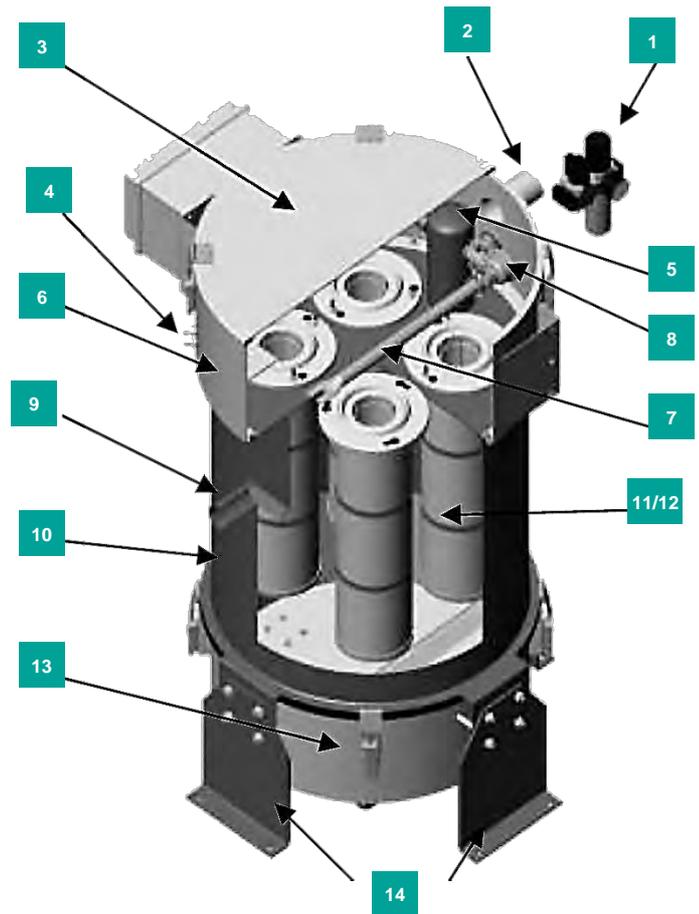
Reduction of their effects

- + Decompression vent on one side.
- + Possibility to install INDOOR vents.



DESCRIPTION (Filter receiver alone)

1	Filter / pressure-reducing gauge assembly (optional)
2	Clean air outlet
3	Top cover
4	Pressure connections + wall opening
5	Compressed air cylinder
6	Clean air chamber
7	Blowing tube
8	Unclogging valves
9	Dust-laden air inlet
10	Dust-laden air chamber
11	Antistatic filter element
12	Element basket
13	68-litre dust collection bin
14	Support feet



CHARACTERISTICS

	Filtering Surface in m ²	Power in kW	Weight in kg		Sound level in dB(A)*
			Standard Version	ATEX Version	
Neumatic® JK8 unit	8,4	5,5 - 7,5	320 -335	340 - 355	77,1 - 77,6
Neumatic® JK16 unit	16,8	11 - 15	385 - 440	410 - 470	81 - 84,7

* Measured in free field at 1 m according to NF EN ISO 3744

NEUMATIC® JE - JR

FOR CENTRALISED VACUUM CLEANING

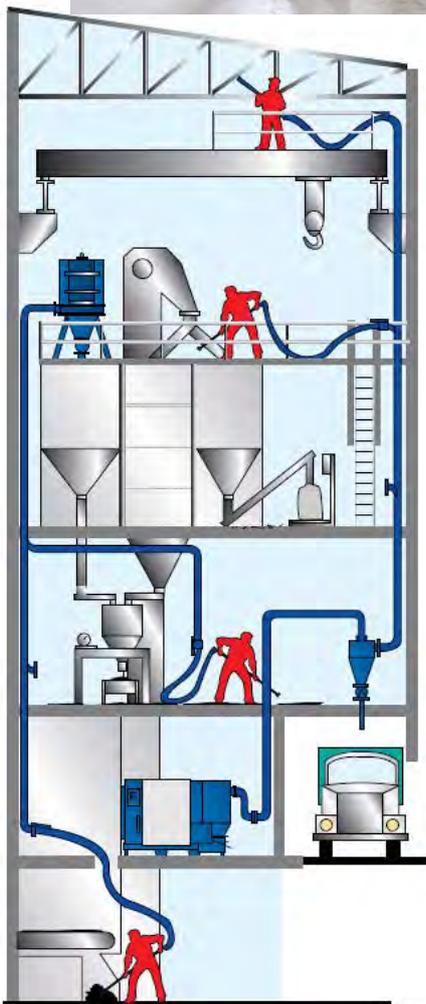


The **NEUMATIC® JE-JR** is a dust collector with automatic cleaning by injection of compressed air and constitutes the major part of a centralised cleaning installation.

Clean premises help to improve safety and working conditions and reduce the risk of explosion.

A centralised vacuum cleaning system generally consists of the following:

- + Dust collection accessories (flexible, cane, suction nozzle)
- + Material reception devices
- + Negative pressure element
- + Sound insulation
- + Conveying pipe
- + Automatic cleaning filter
- + Material collecting system



OPERATING PRINCIPLE

- + The dust air arrives laterally. A wide deflector allows a direct settling of the largest particles in the hopper.
- + The finest dust passes through the filter media from the outside to the inside, depositing dust on the outside of the filter media.
- + The clean air is then evacuated to the outside of the filter.
- + Unclogging is achieved by a very short injection of compressed air into the filter bag via a venturi.



Available in ATEX version : vent on one side or above



1	Clean air exhaust
2	Compressed air connections
3	Hopper flange on filter casing
4	Dust air inlet
5	Sequencer
6	Collecting bin

OPTIONS

- + 95L bin on wheels with cover (pre-equipped for equi-pressure system)
- + Complete kit for equi-pressure (flexible + couplings)
- + Shutoff valve with 2 sleeves, plate, nuts and bolts

RANGE

Model	Filtering surface (m ²)	Weight approx. with complete filter body (kg)	Hopper weight with tangential inlet (kg)	Set of 4 standard feet		Set of 4 raised feet for valve option	
				Length (mm)	Weight (kg)	Length (mm)	Weight (kg)
NEUMATIC® JE6	6	270	100	1 340	55	1 604	65
NEUMATIC® JE12	12	360	100	1 340	55	1 604	65
NEUMATIC® JE20	20	500	190	1 543	60	1 807	70
NEUMATIC® JE30	30	600	280	1 796	65	2 060	80
NEUMATIC® JR12	12	290	100	1 340	55	1 604	65
NEUMATIC® JR24	24	380	100	1 340	55	1 604	65
NEUMATIC® JR40	40	520	190	1 543	60	1 807	70

ACCESSORIES



NEUMATIC® JK8 - JK16

DUST COLLECTOR FOR HIGH PRESSURE CENTRALIZED VACUUM SYSTEM



The **NEUMATIC® JK** is a dust collector with filter cartridges. It is a circular filter vessel with filter elements unclogged by the injection of compressed air inside the filter elements. They are specially designed to be integrated in high vacuum suction installations such as floor, machines and workstations cleaning or collection facilities on portable tools (orbital sander or others).

OPERATING PRINCIPLE

The dust air arrives laterally in the **NEUMATIC® JK**. A deflector allows direct settling of the largest particles in the bin. The finer dust passes through the filter media from the outside to the inside, leaving the dust on the outside of the filter media. The clean air is then evacuated to the outside of the filter. Unclogging is achieved by a very short injection of air into the filter cartridges.



Available in ATEX version

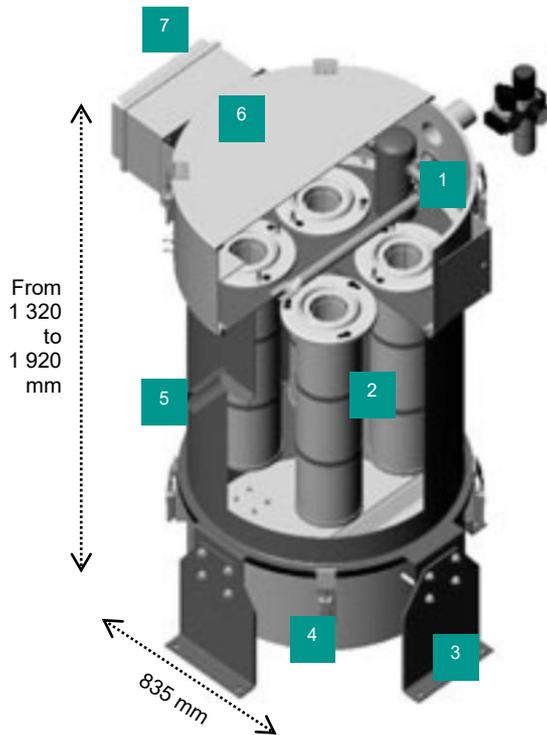
SAFETY

The **NEUMATIC® JK** may be fitted with devices to reduce the risk of explosion and to reduce its effects

- + Anti-static filter cartridges
- + Earthing of metal parts
- + Venting nozzle located on one side. Possibility of putting INDOOR vents on this equipment.



1	Unclogging valves
2	Filter cartridge
3	Support feet
4	68 liters dust collection bin
5	Dust-laden air inlet
6	Top cover
7	Electronic sequencer



CHARACTERISTICS

- + Delivery in one piece for quick and easy installation.
- + Hinged cover for easy access.
- + The Neu cartridge is made with a non-woven polyester media composed of a mattress of fibers thermally connected over the entire surface. The perfectly homogeneous structure ensures optimum filtration. A low level of dust release (less than mg / m³) allows for recycling
 - Media : 100 % polyester.
 - Embossed non-woven media that limits crushing of folds.
 - Filtering media efficiency class M > to 99,9 % for dust between 0,2 and 2 µm, as per EN 60 335-2-69 Standard (Annexe AA).
- + Access to the filter cartridges through the clean air box.

RANGE

Model	Filtration surface (m ²)	Nber of filtering cartridge	Max. air flow m ³ /h	Max. vacuum rate daPa	Weight kg
NEUMATIC® JK8	8,4	4	550	3 000	120
NEUMATIC® JK8 EX	8,4	4	550	3 000	150
NEUMATIC® JK16	16,8	4	1 100	3 000	160
NEUMATIC® JK16 EX	16,8	4	1 100	3 000	200

POLUCLEAN® SI COMPACT DUST COLLECTOR FOR DISCONTINUOUS PROCESS

AIM TO :

- + Clean and protect the working environment
- + Protect operators
- + Be compliant with regulations in force

DUST TREATED

For used on dust with and explosion risk* or not :

- | | |
|-------------|-----------|
| + Food | Carbon |
| + Plastic | Composite |
| + Aluminium | Wood... |



APPLICATIONS

Dust extraction on operations such as :

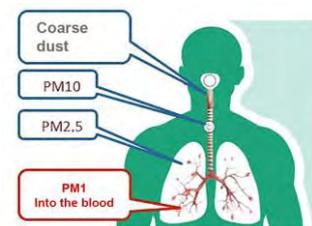
- | | |
|------------|-----------------|
| + Weighing | + Sawing |
| + Dosing | + Sanding |
| + Cutting | + Bags slitting |
| + Bagging | + Deburring |

BENEFITS

- + Installed next to the process
- + High filtration level: emission level < 2 mg/ m³ (without secondary filter)
- + Compact
- + Filtering efficiency allowing air to be recycled in the workshop (with secondary filter & for non CMR dust)
- + Easy to set up
- + No compressed air
- + Maximum safety : fan temporarily stopped during mechanical cleaning

Secondary filter (option) ePM1 65 % class

ISO 16890 STANDARD
Efficiency on particle size between 0,3 to 10 microns

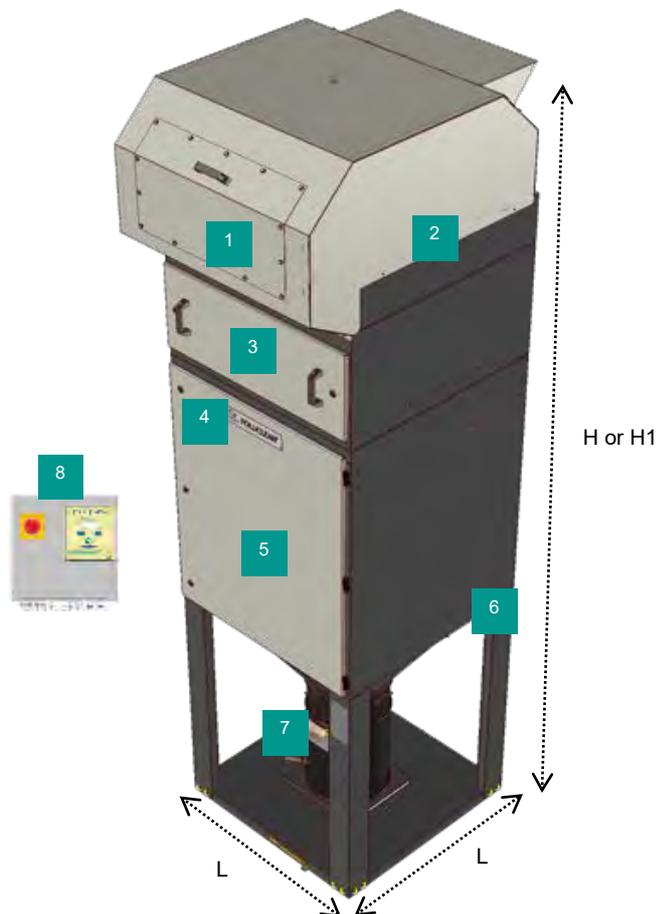


PM (Particulate Matter) represents the mass concentration of the particles.
PM10 ≤ 10 µm ; PM 2.5 ≤ 2.5 µm ; PM ≤ 1µm

Group name	Requirement			Declared class value
	ePM1 min	ePM2,5 min	ePM10	
Basic ISO	-	-	< 50 %	Initial gravimetric efficiency
ISO and ePM10	-	-	≥ 50 %	ePM10
ISO and ePM2,5	-	≥ 50 %	-	ePM2,5
ISO and ePM1	≥ 50 %	-	-	ePM1

* Conformity certificate INERIS n° 027418/13X

- 1 Soundproofing
- 2 Fan
- 3 Secondary filter casing (option)
- 4 Shaker motor
- 5 Access door
- 6 Hopper
- 7 Collection bin (33 or 60 liters)
- 8 Electrical cabinet



CHARACTERISTICS

- + Flow rates : from 1 000 m³/h to 4 000 m³/h
- + Fan power : from 2,2 to 7,5 kW
- + Shaker motor power : 0.13 kW
- + Sound level in free field at 1 m < 72 dB(A) ± 2 dB (according to NF EN ISO 3744)
- + Power supply 3-phased 400V-50Hz
- + Option : secondary filter ePM1 65 % class

MODEL RANGE

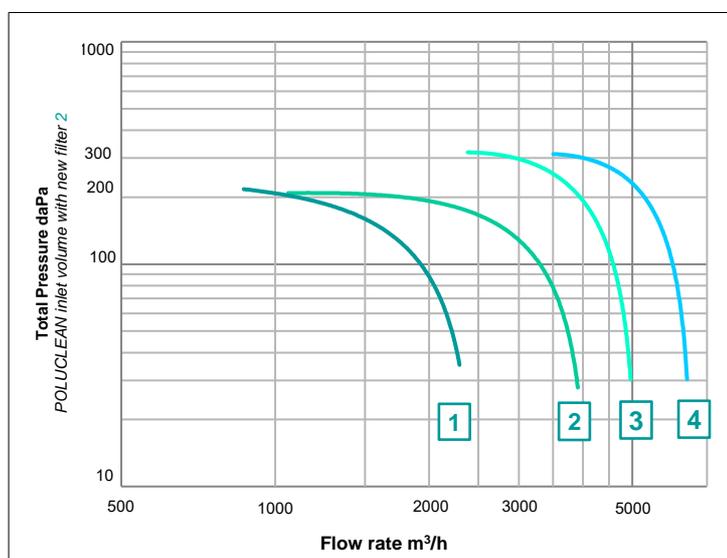
Model	Hopper POLUCLEAN®						Silo top POLUCLEAN®					
	L (mm)	Air flow (m ³ /h)	H* (mm)	H1** (mm)	Bin volume (liters)	Weight (en kg)		H* (mm)	H1** (mm)	Weight (en kg)		
						*	**			*	**	
Poluclean 10	660	1 000	2 040	2 380	33	188	225	1 445	1 790	160	196	
Poluclean 20	660	2 000	2 410	2 750	33	213	250	1 815	2 155	185	222	
Poluclean 30	970	3 000	2 790	3 295	60	355	435	1 745	2 250	306	385	
Poluclean 40	970	4 000	3 035	3 535	60	385	465	1 990	2 495	336	415	

* Without secondary filter ** With secondary filter

UNILINE FAN CHARACTERISTICS

Curve n°	Fan	Power (kW)	Noise level dB(A) ¹
1	35 – 0.42	2,2	67
2	35 – 0.6	2,2	65
3	42 – 0.5	5,5	71
4	42 – 0.6	7,5	72

¹ Sound level in free field at 1 m with connected inlet according to NF EN ISO 3744



² Add filter pressure loss (120 daPa) in pressure loss calculation

SEPAROBOIS® M

DUST COLLECTOR FOR WOOD SHAVINGS, CHIPS AND DUST



To protect operators and their working conditions, to clean atmosphere, to reduce maintenance costs of the workshop machines.

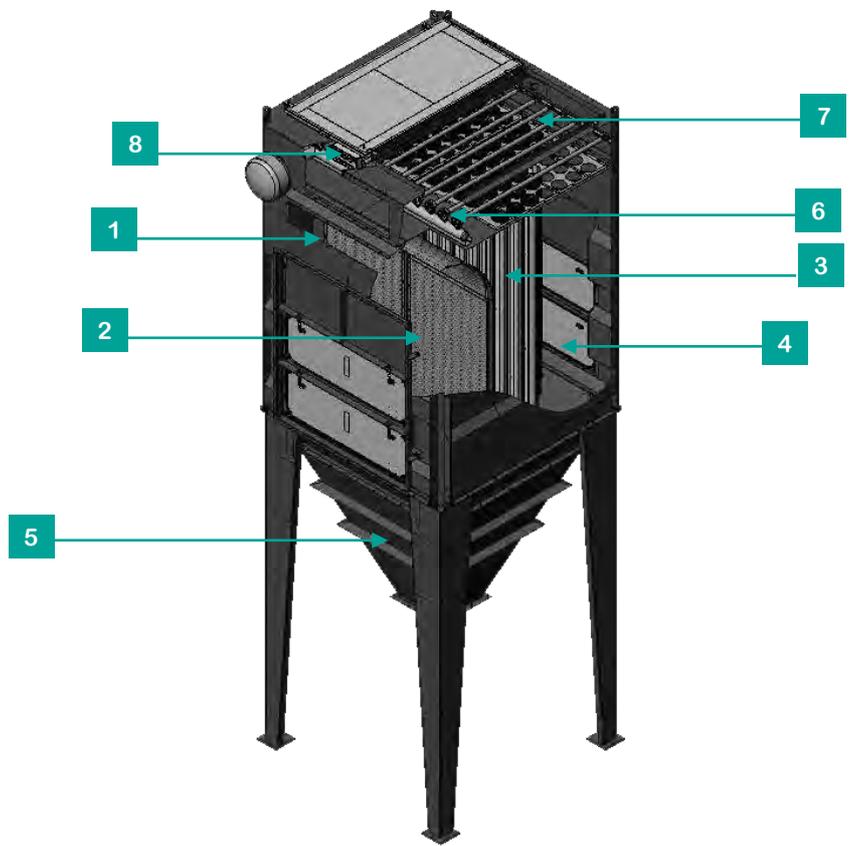
- + The **SEPAROBOIS® M** is a dust collector designed for centralised transfer installations of wood shavings, chips and dust.
- + The **SEPAROBOIS® M** is equipped with vertical sleeves. It is designed to treat large air flow.
- + **Compact design** for easy installation in all plant configurations.
- + In conformity with **ATEX** Directives , it is equipped with antistatic filter sleeves and with side explosion vents.

ADVANTAGES



- + A high-efficiency filter media to guarantee a very low dust level release of a few mg/Nm³
- + A large range of equipment with capacity up to 50 000 m³/h
- + Easy maintenance: dismantling and reassembly of filter elements quick and easy through a numerous access door.
- + Low power consumption : use of high efficiency fans and motors. Speed variator. Optimum compressed air cleaning system.

1	Air + dust inlet
2	Separation grid
3	Filter sleeves
4	Explosion vents
5	Material reception hopper
6	Air jet cleaning valves
7	Air jet cleaning tubes
8	Clean air outlet



OPERATING PRINCIPLE

	AIR / MATERIAL SEPARATION: Chips and shavings are separated from the transport air by sliding on a curved grid (2).
	AIR DEDUSTING: When passing through the grid, the transport air is dedusted by a tubular sleeve filter (3) and is sucked by an external fan (vacuum operation). The filter is cleaned during operation by injection of compressed air
	EVACUATION OF MATERIAL AND DUST: The chips and shavings are evacuated by a rotary valve ensuring airtightness to an external reception equipment (tank, compactor, press, ...). The collected dust is extracted by the rotary valve through the common hopper

RANGE

Model	Nber of module	Surface (m ²)	Sleeve Length (mm)	Nominal Air flow (m ³ /h)	Nber of valves	Compressed air pressure (bar) *	Compressed air consumption (bar) **	Weight ***	
								with conveying system (kg)	with big bag (kg)
20	1	21	2500	5000	3	4	1,22	2150	2300
40	1	42	2500	10000	6	4	2,45	2200	2350
60	1	55	3250	15000	6	5	2,9	2350	2500
80	2	84	2500	20000	12	4	4,89	2950	3100
100	2	109	3250	25000	12	5	5,81	3250	3400
120	2	116	4150	30000	10	6	5,6	3250	3350
140	2	139	4150	35000	12	6	6,72	3650	3750
160	3	164	3250	40000	18	5	8,71	4400	
180	3	174	4150	45000	15	6	8,4	4750	
200	3	208	4150	50000	18	6	10,08	4950	

* : Dry and oil free compressed air

** : in Nm³/h for cleaning every 15 minutes

*** : Weight in kg : filter + hopper + feet + ladder + parapet but rotary valve not included

SEPAROBOIS® P

DUST COLLECTOR FOR WOOD SHAVINGS, CHIPS AND DUST



To protect operators and their working conditions, to clean atmosphere, to reduce maintenance costs of the workshop machines.

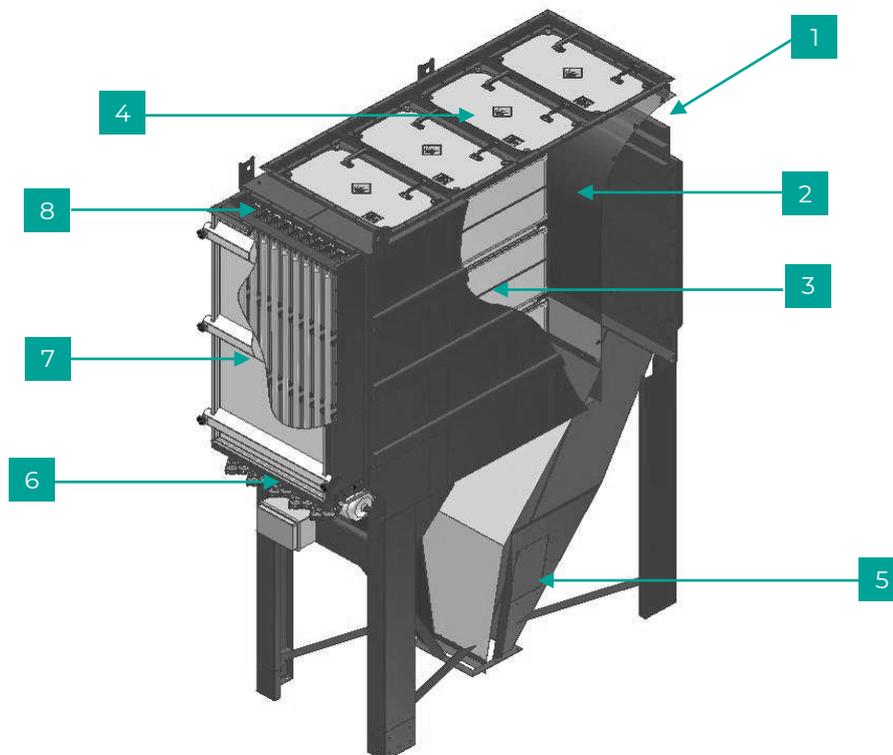
- + The **SEPAROBOIS® P** is a dust collector designed for centralised transfer installations of wood shavings, chips and dust.
- + The **SEPAROBOIS® P** is equipped with horizontal filter bags
- + **Compact design** particularly suited for installation in small and middle joinery.
- + In conformity with **ATEX Directives**, it is equipped with antistatic filter sleeves and with explosion vents installed on the filter top.

ADVANTAGES



- + A high-efficiency filter media to guarantee a very low dust level release of a few mg/ Nm³
- + Filtering area from 45 to 120 m². Maxi air flow: 18 000 m³/h. Generally placed outside, can also be installed inside as the explosion vents are fitted on top.
- + Easy maintenance: dismantling and reassembly the bags are quick and easy thanks to a lateral access door (clean air side)
- + Low energy consumption: use of high efficiency fans and motors. Speed variator. Optimum compressed air cleaning system.

1	Air + material inlet
2	Separation grid
3	Filter elements
4	Explosion vents
5	Material reception hopper
6	Air jet cleaning tubes
7	Access door
8	Clean air outlet



OPERATING PRINCIPLE

	AIR /MATERIAL SEPARATION: Chips and shavings are separated from the transport air by sliding on a curved grid (2).
	AIR DEDUSTING: When passing through the grid, the transport air is dedusted by a bag filter (3) and is sucked by an external fan (vacuum operation). The filter is cleaned during operation by injection of compressed air
	EVACUATION OF MATERIAL AND DUST: The chips and shavings are evacuated by a rotary valve ensuring airtightness to an external reception equipment (tank, compactor, press, ...). The collected dust is extracted by the rotary valve through the common hopper.

RANGE

Model	Surface (m ²)	Filter bag length (mm)	Number of bags	Number of valves	Compressed air pressure (bar) *	Compressed air use (m ³ /h) **	Weight		
							Filter casing (kg)	Hopper (kg)	Total (kg)
45	45	1500	30	10	5,5	6,7	1110	316	1426
60	60	2000	30	10	6	10,1	1200	430	1630
90	90	1500	60	20	5,5	13,5	1870	461	2331
120	120	2000	60	20	6	20,2	2120	572	2692

*: Normal dry and oil free compressed air

** : Compressed air consumption for cleaning every 6 minutes