












PRODUCT RANGE

Model	Type	Applications
 AQUALINE® HE	Wet scrubber	Fatty and sticky dust
 DELTA BOIS®	Bag	Wood working machines
 DELTAJET®	Rigid element	Fine dust, even with a high concentration. Chemical /pharmaceutical
 JETLINE® CH	Pocket	High concentrations of dust. All industrial application
 JETLINE® E	Pocket	All type. Designed to be incorporated into silos, hood of belt conveyors.
 JETLINE® E HD	Pocket	All type. High dust concentration collectors
 JETLINE® K	Cartridge	All type excluding sticky dust
 JETLINE® K Compact	Cartridge	All type excluding sticky dust
 JETLINE® KS	Cartridge + High efficiency filter	Fine dust. Chemical, pharmaceutical
 JETLINE® V	Bag	All type. All industries
 POLUCLEAN® SI	Multi-pocket	All type. Discontinuous process
 DOWNDRAUGHT TABLE	Ventilated workstation High efficiency	All types of dust and fumes: plastic, aluminum, carbon, composite glass, chrome VI, etc.

AQUALINE[®] HE (High Efficiency) WET SCRUBBER

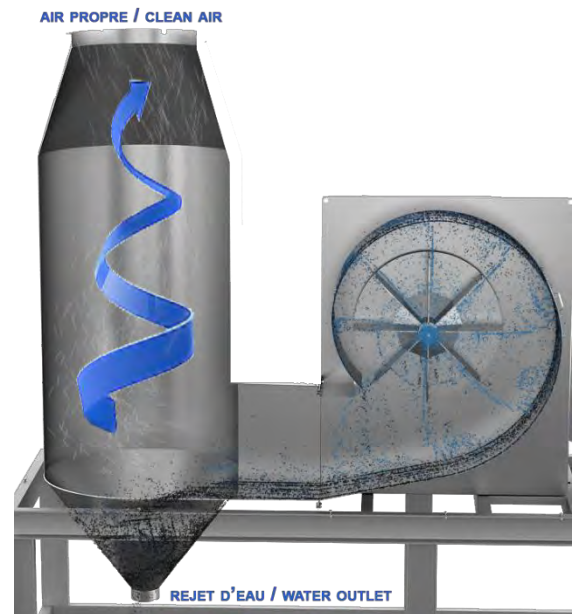


Recommended for the treatment of air charged with wet, hygroscopic, sticky, oily, incandescent or explosive dust

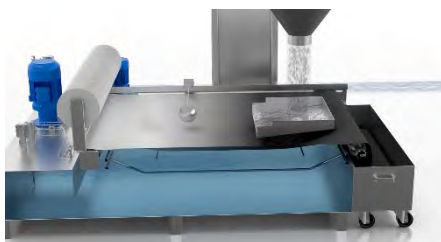
- + The AQUALINE HE[®] is a wet scrubber type using water as filtration method
- + Filtration efficiency : more than 99 % depending on the nature of the dust.

OPERATING PRINCIPLE

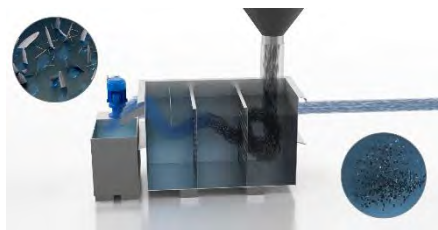
- + The gas to be cleaned is admitted axially into the fan impeller where it is firstly washed through water microdroplets. The incandescent particles are immediately extinguished.
- + When passing through the fan impeller, the gas and the water mix together allowing the gas to be washed of a large part 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

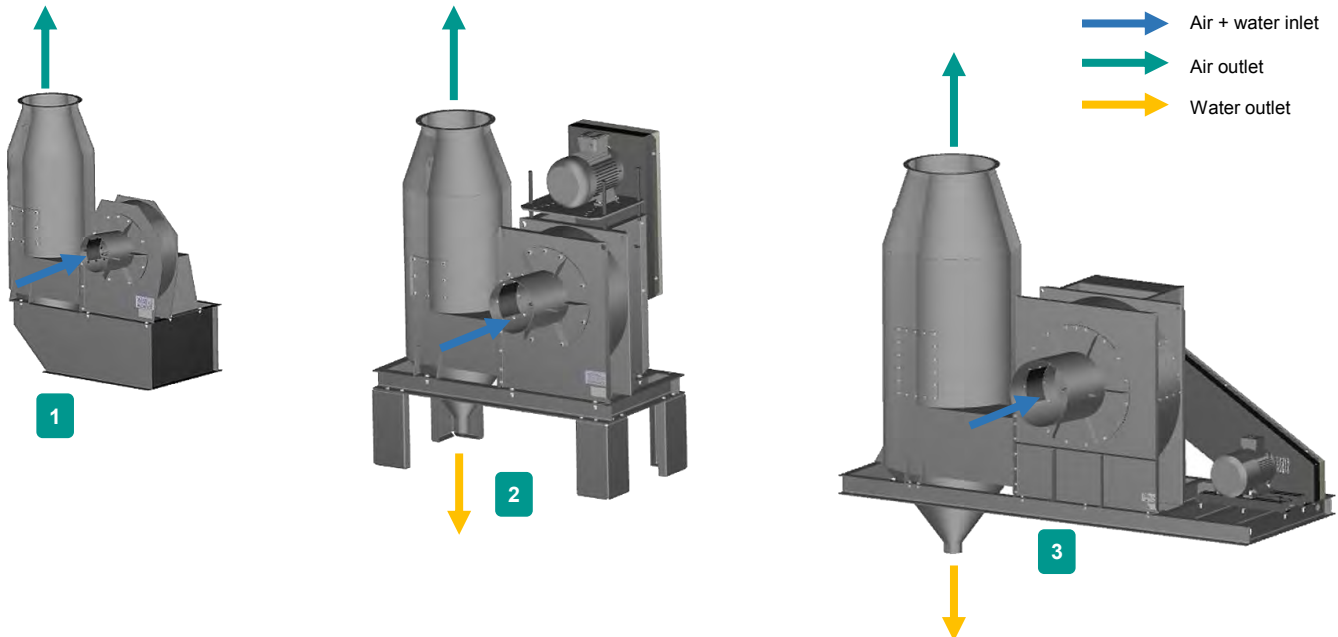
CHARACTERISTICS

- + 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	
	11	4 500	520		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		3 665		1 100	
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		3 750	
		110	36 600		4 050			
140 – 0,7	220	75	53 000	3	6 280	3 120	6 805	4 700
	240	110	58 000		6 800		5 450	
		132	63 000		5 620			

DELTABOIS®

COLLECTION AND DUST EXTRACTION FROM PROCESS MACHINES



Specially designed for dust collection and extraction on wood working machines.

The **DELTABOIS®** offers a solution for major problems of sawdust and chips extraction on wood working machines.

The **DELTABOIS®** essentially comprises:

- + A motor-fan unit with transport turbine allowing the passage of the material in the fan;
- + One or more upper cloth bags for air filtration;
- + One or more lower bags intended to collect sawdust and shavings.

The lower bags are either fabric or transparent polyethylene according to models

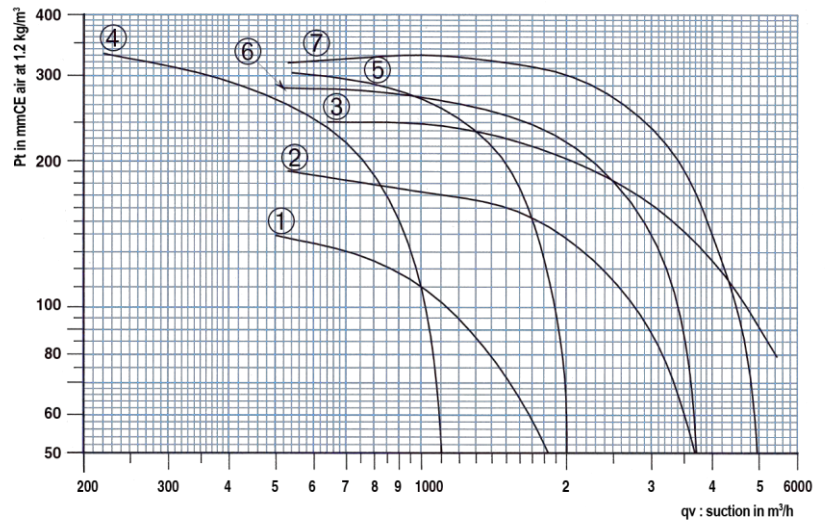
The design of the DELTABOIS® allows their use with a suction intake of dusty air directed either upwards or downwards.

ADVANTAGES

- + **Simplicity:**
They are easy to install and can be fitted on many types of machines
- + **Efficiency:**
Depending on the density and the gravimetric characteristics of the dust, the efficiency can reach 99% for the cyclone systems.
- + **Compact design:**
These unit are light, compact and the monobloc design allows for convenient installation.
- + **Low cost:**
The cost effectiveness of these units makes them ideal for application on small systems.

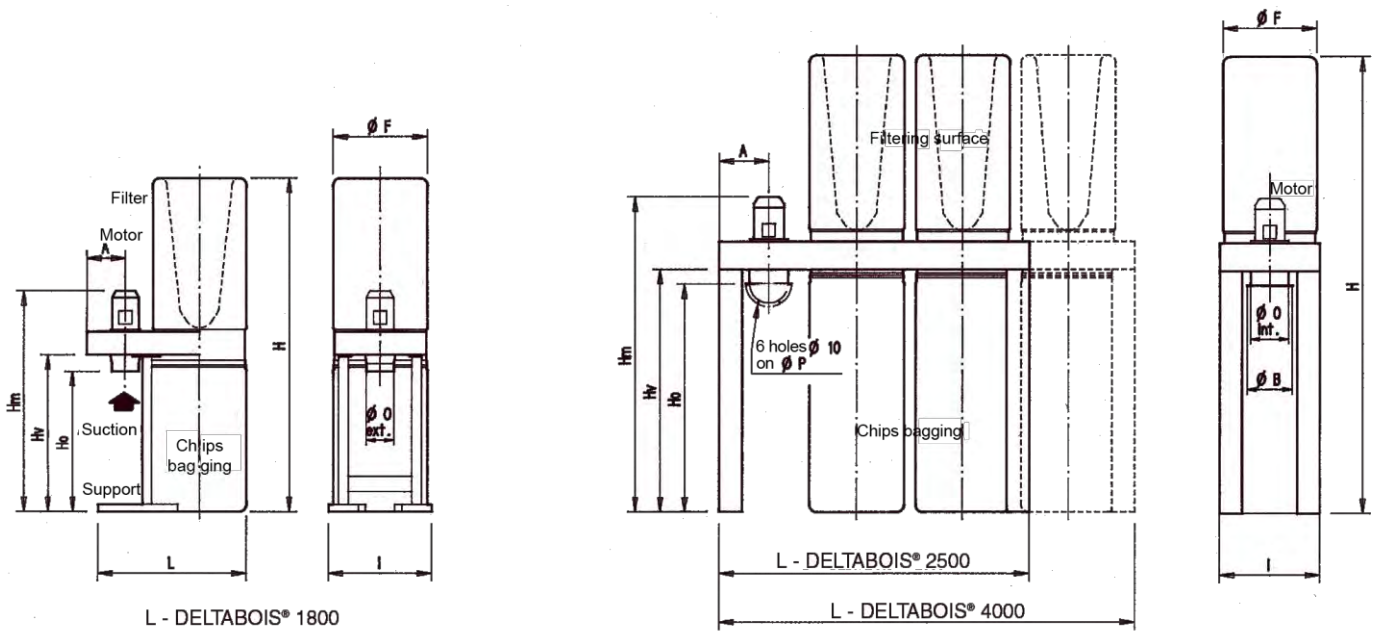
CHARACTERISTICS

MODEL	1800 *	2500 *	4000 *
Curve nr	1	2	3
Fan type	30 0,7 TT	35 0,7 TT	38,5 0,7 TT
Airflow in m ³ /hr	1800	2500	4000
Power in kW	2,2	3	5,5
Motor voltage	3 x 230 x 400 v		
Rotation speed in tr/min.	2900	2900	2900
Bagging capacity in litre	200	900	1350
Weight in kg	50	140	192



(*) : The lower bags are fabric for the **DELTA BOIS® 1800**, transparent polyethylene for the **2500** and **4000** models.

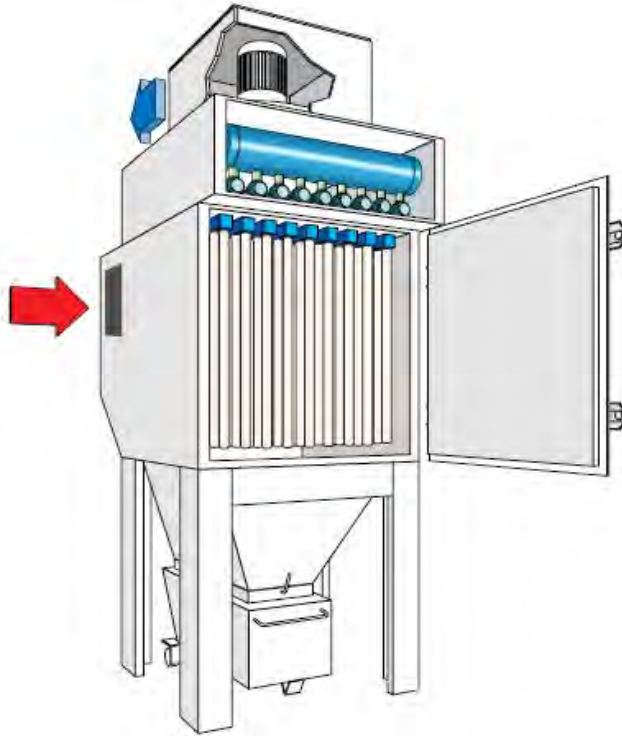
DIMENSIONS



Type	H	Hv	Hm	A	I	ø O	ø B	ø F	ø P	L	Ho
1800	2200	1035	1460	257	680	180	-	620	-	1060	926
2500	2958	1600	2070	325	665	250	300	620	278	2000	1500
4000	3010	1600	2160	375	755	270	330	620	304	2800	1500

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

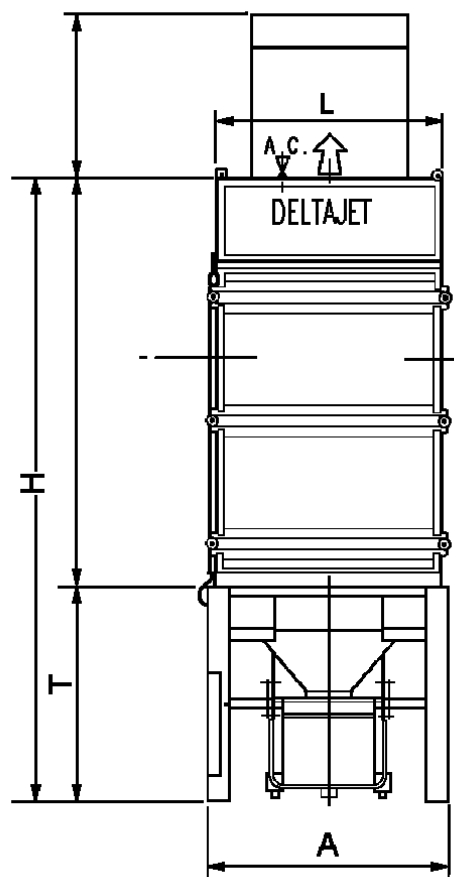
- + Filter area from 22 to 120 m²
- + Standard and ATEX versions

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 (Nm³/h) **
	Area m²	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

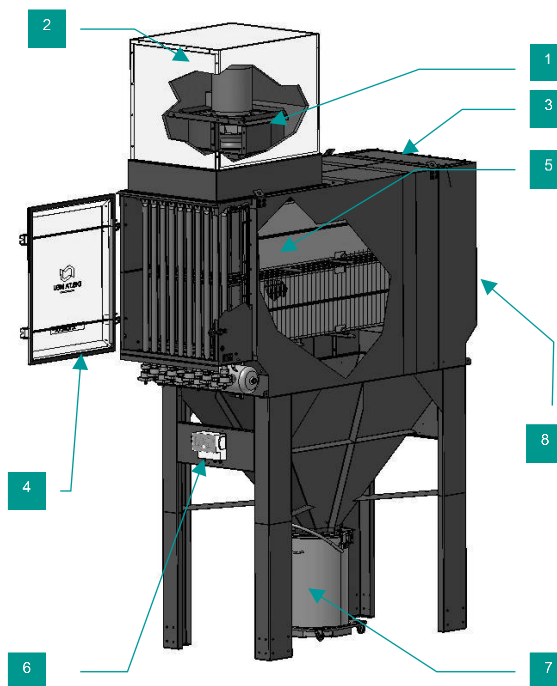
- + The **JETLINE® CH** is a dust collector for continuous filtration at high-speed of atmospheres containing high concentrations of dust in almost all industrial applications.
- + A compact and modular design ideal for installation in restricted areas
- + Configuration and control of the system components (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 released dust and also program the maintenance phases
- + A safe dust collection system

1	Fan
2	Sound-proofing
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

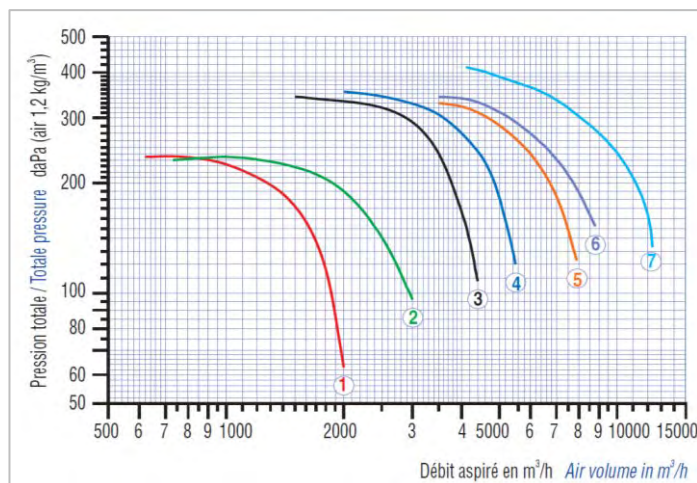
- + Treated air flow : 1 000 à 20 000 m³/h
- + Fan power : 2,2 à 11 kW
- + Filtering surface from 10 to 120 m²

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

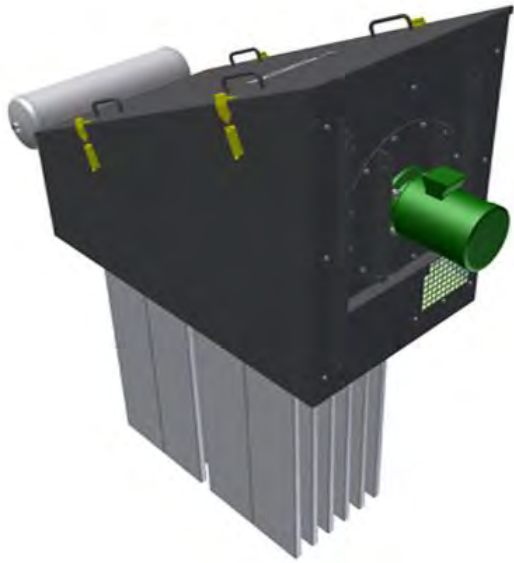
JETLINE® CH	Curve n°	Power (kW)	Sound Level dB(A)	
			Without acoustic hood	With acoustic hood
10	1	2,2	82	64
10/20	2	2,2	76	60
20/30	3	5,5	81	65
30	4	5,5	69	57
30/40/45	5	7,5	74	57
40/45/60	6	9	79	60
60	7	11	75	65



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

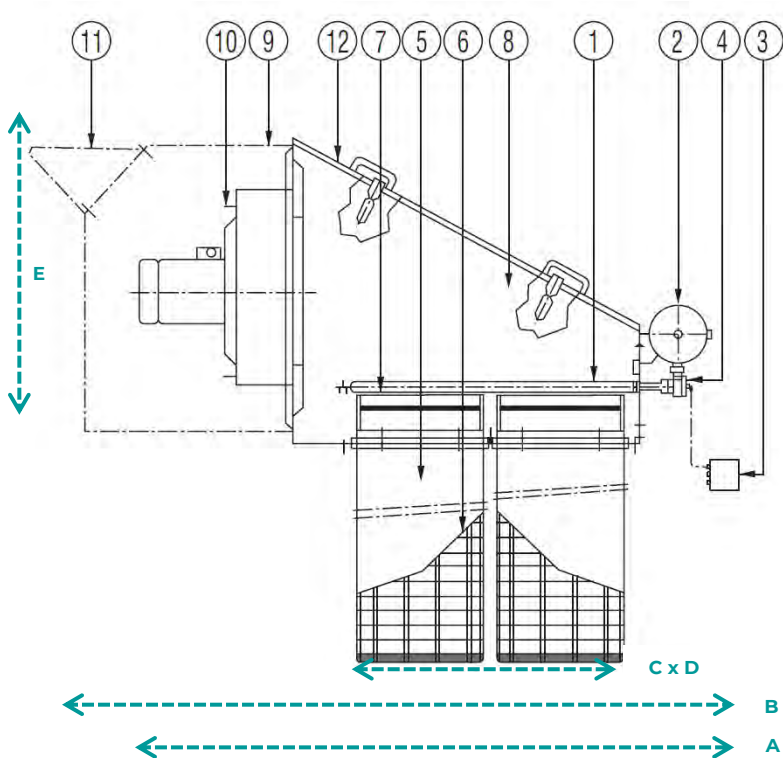
(articles R. 4222-10 et R. 4412-149.of « Code du Travail »)

ADVANTAGES

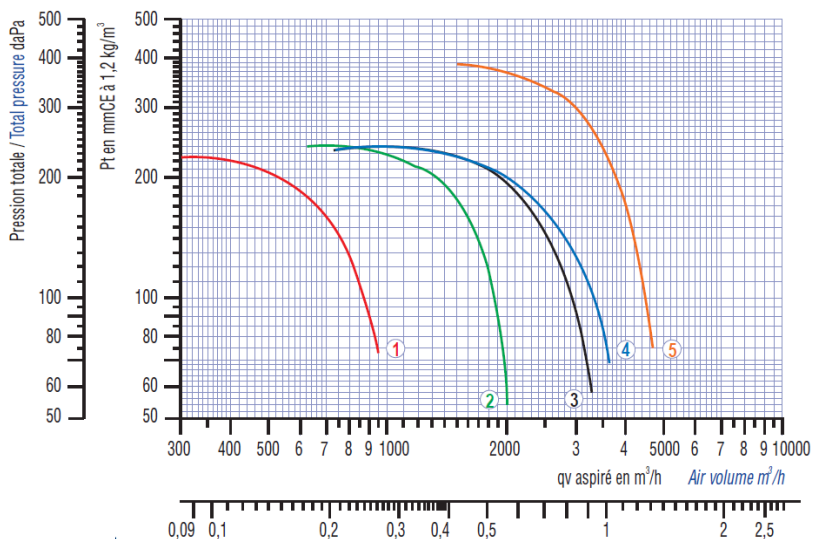
- + Wide range of filtering surfaces
- + Compact housing with or without incorporated fan
- + Fully removable top panels
- + Dust recycling : can be directly sent back to the conveyor



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	40
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

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

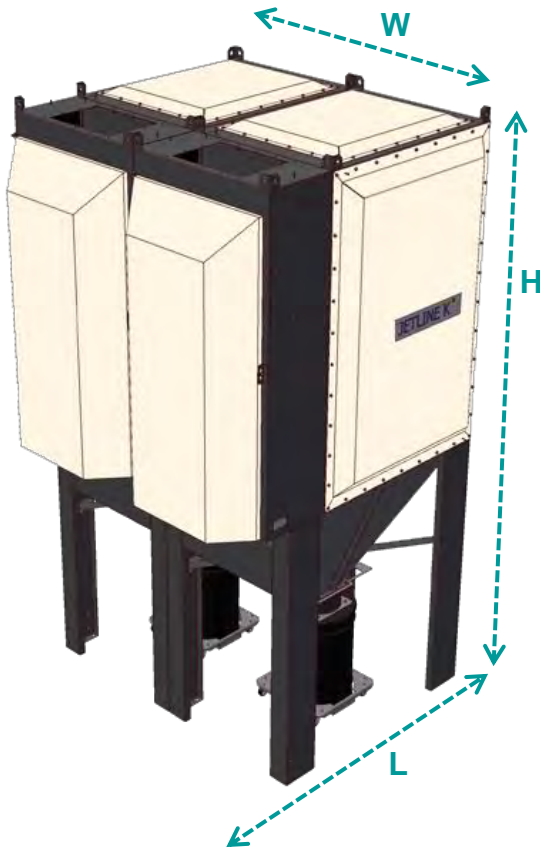
APPLICATIONS

- + 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.

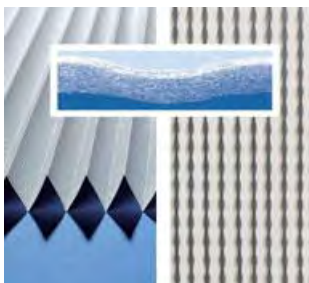
CHARACTERISTICS

- + 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 EN 60 335-2-69 standard.

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® E HD

FLUSH FITTED DUST COLLECTOR FOR SILOS AND HOPPERS



DESCRIPTION

Ideally designed for high dust concentration collectors such as silos, receivers of a pneumatic conveying, the JETLINE® E HD is a built-in dust collector, designed to withstand vacuum pressures of 0.5 bar and achieve maximum filtration efficiency. Plate in 304L stainless steel without product retention.

USE

- + Integrated in a collector of food product pneumatic conveying
- + Installed on a protected silo (dust explosion risk)

FOR

- + Clean and safe working environment
- + Operator protection
- + Compliance with the regulations in force

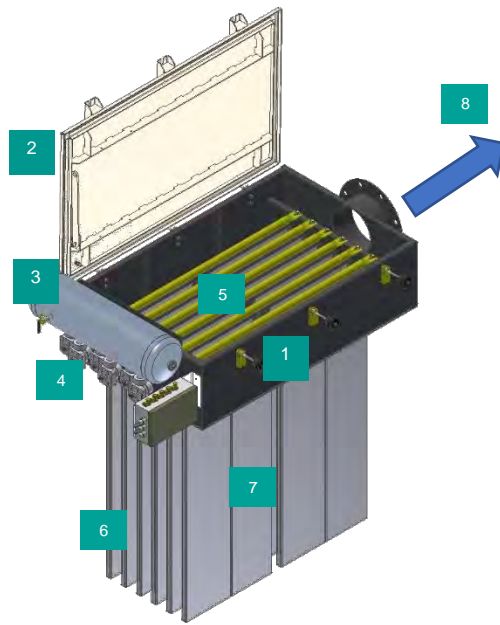
APPLICATIONS

- + Dust extraction of cement airslide
- + Dedusting of clinker and gypsum dosing unit before grinder feeding
- + Dedusting of truck unloading pit
- + Hopper dedusting during cement unloading from boats
- + Silo dedusting during bulk container discharge of food product

ADVANTAGES

- + Wide range of filtration surfaces
- + Thick metal sheet resistant to pressure / vacuum of 0.5 bar
- + Part in contact with product in 304L stainless steel
- + Filter media : antistatic oleophobic felt made for food grade
- + Pneumatic declogging controlled by an electronic sequencer
- + Control of the pressure drop by digital display in cabinet.
- + **Ergonomics**: easy access and disassembly of the filter elements for maintenance (dismantling tools supplied with the dust collector)

1	Box
2	Hinged door
3	Compressed air tank
4	Declogging valves
5	Air ramps
6	Filter bags
7	Dummies
8	Clean air outlet



RANGE

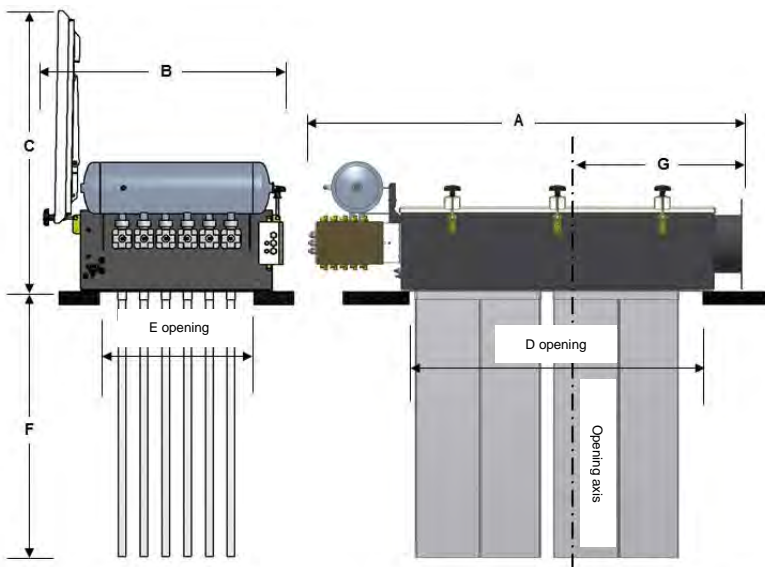
Model	Nbr filter bags	Filtering surface (m ²)	Weight (kg)
6	6	6	160
9	6	9	190
12	12	12	280
18	12	18	320
20	20	20	350
30	20	30	410

Hygiene

- + Support plate of filter elements in 304 L stainless steel : smooth surfaces without any retention zone
- + Filter housing paint suitable for food industry
- + Filter elements : food and oleo/hydrophobic grade

Safety

- + Standard version with antistatic filter elements : the JETLINE[®] E HD can be used with explosive risk dust
- + In option the JETLINE[®] E HD can be equipped with a specific sequencor for an ATEX installation in zone 22.



DIMENSIONS

JETLINE [®] E HD	6	9	12	18	20	30
A (mm)	1 107		1 627			
B (mm)	1 031		944		1 215	
C (mm)	1 150	1 650	1 150	1 650	1 335	1 650
D (mm)	590		1 110			
E (mm)	658				884	
F (mm)	1 000	1 500	1 000	1 500	1 000	1 500
G (mm)	433		693			

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, airlock valve, 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)

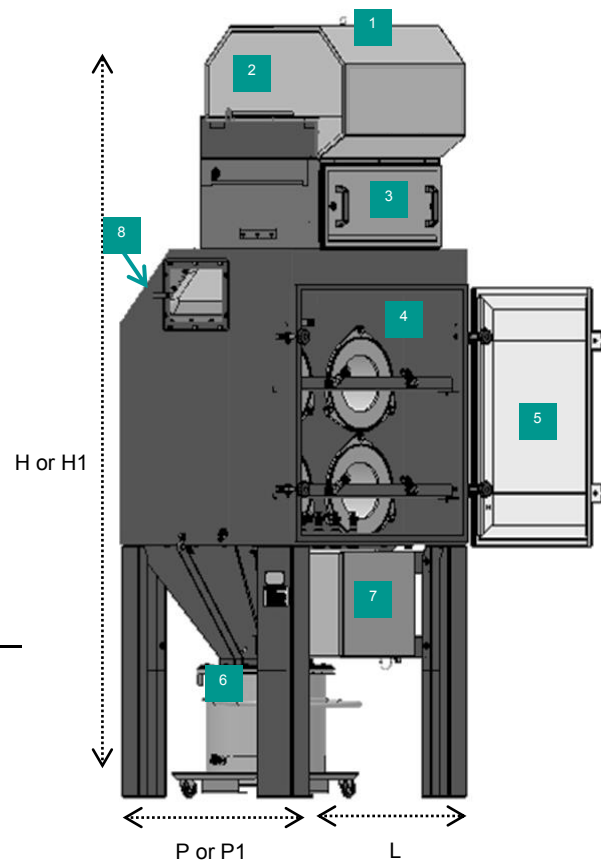


In conformity with standard EN 60335-2-69



- + 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.
- + 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

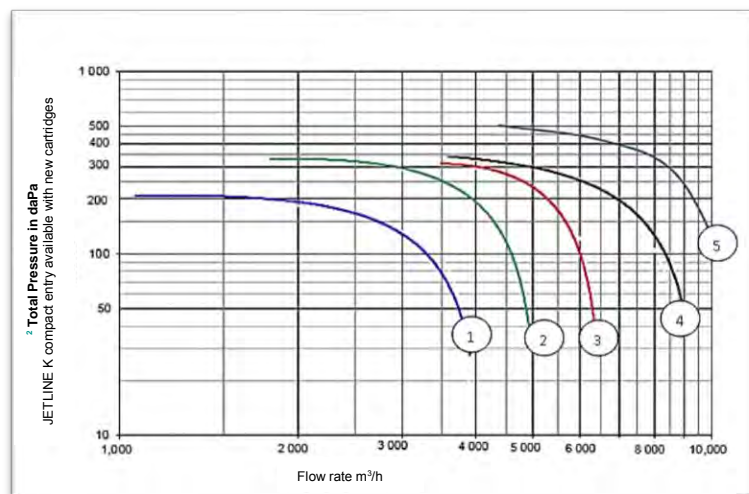
- + Treated air flow: 2,000 to 6,000 m³/h
- + Fan power : 2.2 to 11 kW
- + Sound pressure level at 1m < 81 dB(A) +/- 2 dB (in compliance with standard NF EN ISO 3744)
- + Power supply: 3 x 400V – 50Hz
- + Options: Rotary airlock valve / Level sensor / Discharge sensor type DEM30 / Secondary filter /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

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

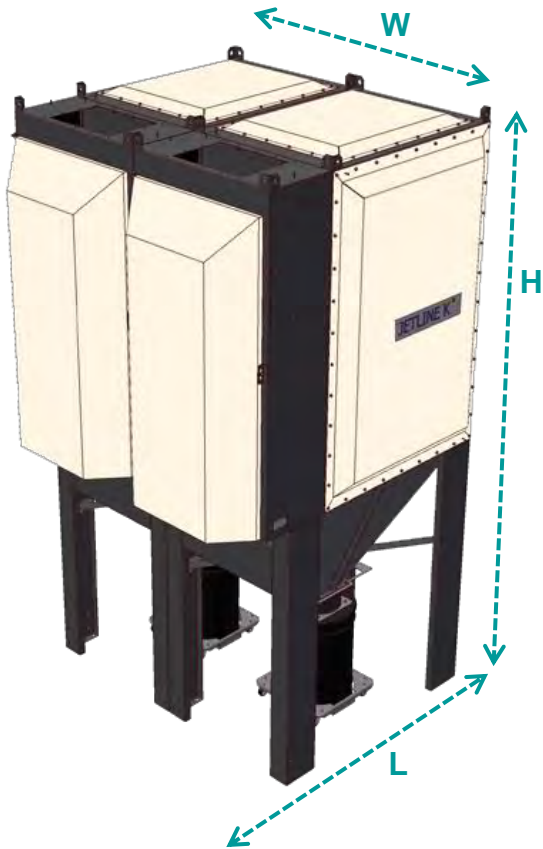
APPLICATIONS

- + 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.

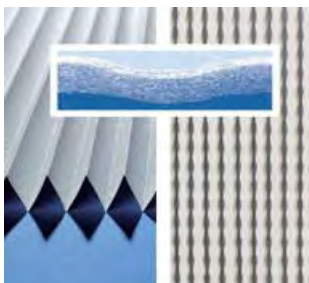
CHARACTERISTICS

- + 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 EN 60 335-2-69 standard.

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

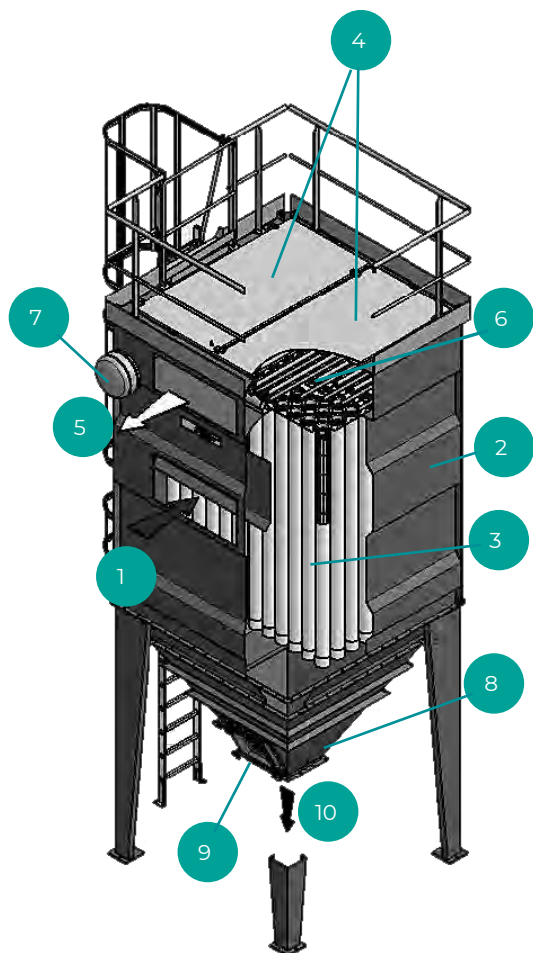
- + The **JETLINE® V** is an automatic compressed air cleaning filter with vertical needlefelt sleeves supported on rigid cage inserts made of corrosion proof steel wire.
- + Its design and performance allow it to deal with most cleaning and dusting problems for any type of dust
- + Easy maintenance operations thanks to its automation
- + High efficiency : capture the thinnest dust and nutralized some gaz (CHI, SOX, HF,..) by the injection of neutralising agent upper in the filter.
- + **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 and filings extraction on polishing drum, backstand, etc,
- + Dust extraction from cooling towers, dryers, pelletisers, baggers, etc.



DESCRIPTION



1	Dust-laden air inlet
2	Filter plenum
3	Filter elements
4	Access hatch
5	Clean air outlet
6	Compressed air unclogging 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 unclogging 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 composition of gas and dust 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	300	3100	4000	4200	5650	5900	6750	7050	7700	8050

Type (*): L = Large C = Compact

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

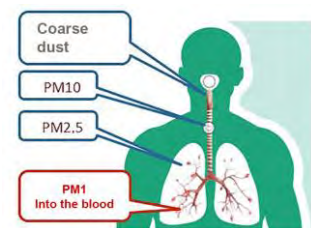
Dust extraction on operations such as :

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

BENEFITS

- + Installed next to the process
- + High filtration level: emission level <math> < 2 \text{ mg/ m}^3 </math> (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

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



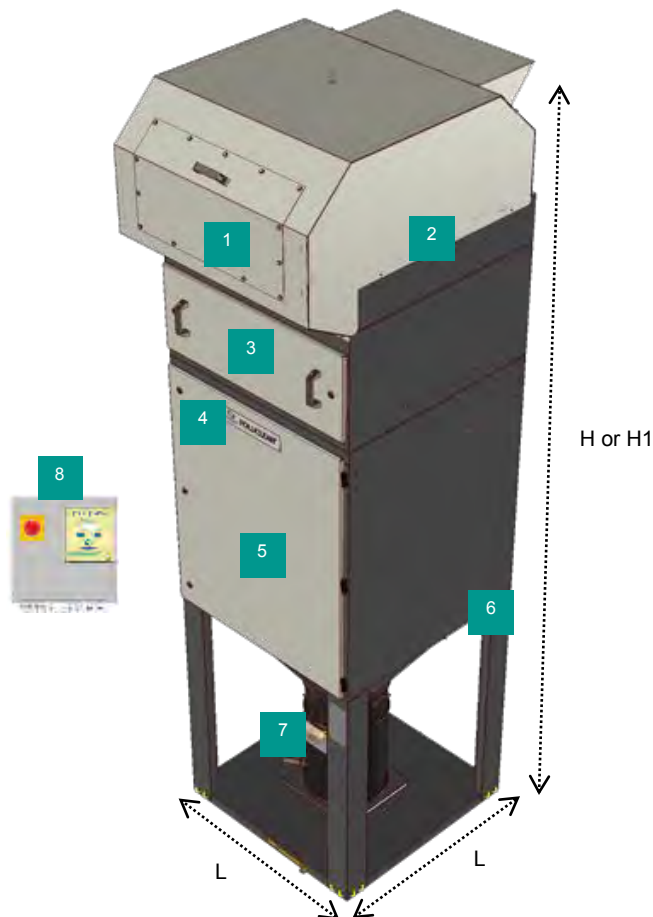
PM (Particulate Matter) represents the mass concentration of the particles.
PM10 ≤ 10 μm ; PM 2.5 ≤ 2.5 μm ; PM ≤ 1 μm

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

Secondary filter (option)
ePM1 65 % class

* 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

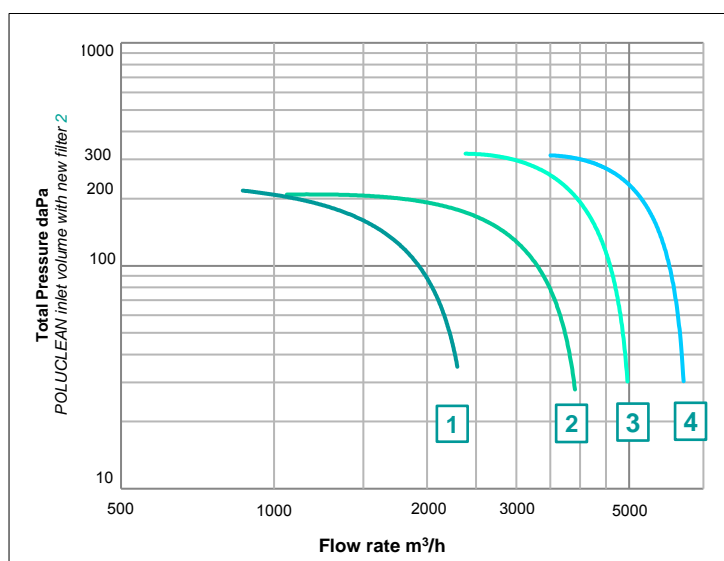
Model	Hopper POLUCLEAN®						Silo top POLUCLEAN®					
	L (mm)	Air flow (m ³ /h)	H* (mm)	H1** (mm)	Bin volume (liters)	Weight (en kg)		H* (mm)	H1** (mm)	Weight (en kg)		
						*	**			*	**	
Poluclean 10	660	1 000	2 040	2 380	33	188	225	1 445	1 790	160	196	
Poluclean 20	660	2 000	2 410	2 750	33	213	250	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

VENTILATED WORKSTATION DOWNDRAUGHT TABLE



- + Ensure a clean and protected working environment
- + Operatives safety
- + In conformity with applicable regulations
- + Facilitates air recirculation within the workspace in the case of non-CMR dusts (*)
- + Energy savings
- + Three levels of filtration for optimum results

SUITABLE DUST TYPES

- plastic
- aluminium
- carbon
- composite
- glass
- and more

EXAMPLE OF APPLICATIONS

- + Precision-grinding and fitting parts
- + Cleaning small parts
- + Manual sanding
- + Dust control at finishing work
- + Dust control at small weighing work
- + Dust control at mixing stations
- + Retouching paintwork
- + Extracting pollutants (polish, varnish, etc.)
- + and more



EN 779 STANDARD

Average efficiency of synthetic dust		WIRE MESH FILTER	Average efficiency with 0.4 µm particles		PLEATED MEDIA FILTER
G1 < 65%	Large particles		M5 < 60% (*)	Medium-sized particles	
G2 < 80%		F7 < 90%	M6 < 80%	Small particles	
G3 < 90% (*)		F8 < 95%	F9 < 95%		
G4 < 90%					

EN 1822 STANDARD

Purification efficiency	MINI PLEAT FILTER (*)	Purification efficiency	MINI PLEAT FILTER (*)
E10 > 85 %		H14 > 99,995 %	
E11 > 95 % (*)		U15 > 99,9995 %	
E12 > 99,5 %		U16 > 99,99995 %	
H13 > 99,95 %		U17 > 99,999995 %	

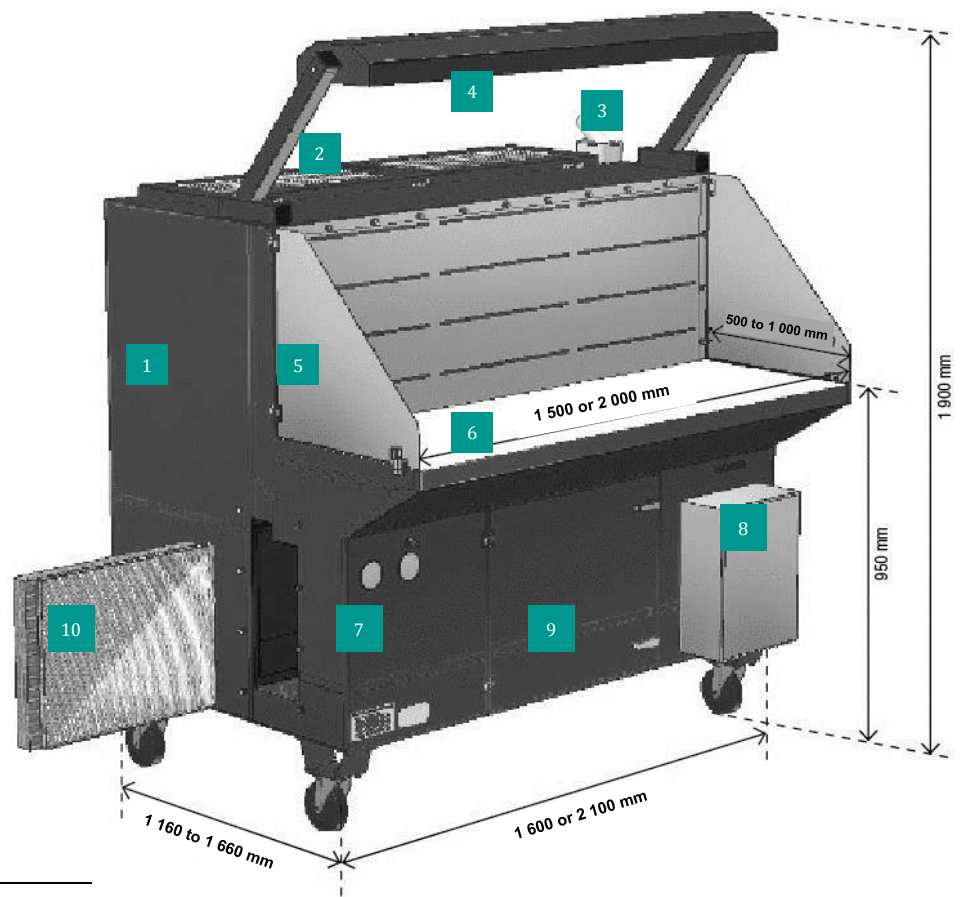
(*) : Provided all the pollutants released are known

SAFETY

- + Suction speeds comply with the recommendations of INRS (French office for health and safety)
- + Level of filter contamination monitored by 2 pressure gauges
- + Easy to maintain

DESCRIPTION

1	Fans
2	E11 finishing filters (or activated carbon filters - optional)
3	Power socket
4	Adjustable lighting strip
5	Articulated side panels
6	Non-scratching work surface
7	Pressure gauges
8	Electrical control cabinet
9	Particle recovery units
10	G3 + M5 pre-filters



CHARACTERISTICS

- + Treated air circulation:
2 700 m³/h to 6 300 m³/h
- + 2 x 1.27 kW fans
- + Fully mobile (swivel castors)
- + 2 x pressure gauges
- + Lateral access covers to the G3/M5 filters
- + Noise level at 1 m: 68 dB(A) ± 2 dB (in accordance with EN ISO 3746)
- + Plug and play: requires a simple single-phase power supply (230 V – 16 A)

RANGE

MODEL	OVERALL DIMENSIONS (mm)			WEIGHT (kg)
	Length	Width	Height	
1 500 x 500	1 160	1 600	1 900	340
1 500 x 600	1 260	1 600	1 900	350
1 500 x 700	1 360	1 600	1 900	360
1 500 x 800	1 460	1 600	1 900	370
1 500 x 900	1 560	1 600	1 900	380
1 500 x 1 000	1 660	1 600	1 900	390
2 000 x 500	1 160	2 100	1 900	410
2 000 x 600	1 260	2 100	1 900	420
2 000 x 700	1 360	2 100	1 900	430
2 000 x 800	1 460	2 100	1 900	440
2 000 x 900	1 560	2 100	1 900	450
2 000 x 1 000	1 660	2 100	1 900	460

OPTIONS

- + Vice holders
- + 2 x pressure sensors with warning lights to indicate when the filters are contaminated
- + Activated carbon finishing filters
- + Translucent side panels

The manufacturer expressly reserves the right to make any changes to these models that it deems necessary.

DELTASPI®

SINGLE WORKSTATION FOR CENTRALISED VACUUM CLEANING SYSTEM



FOR

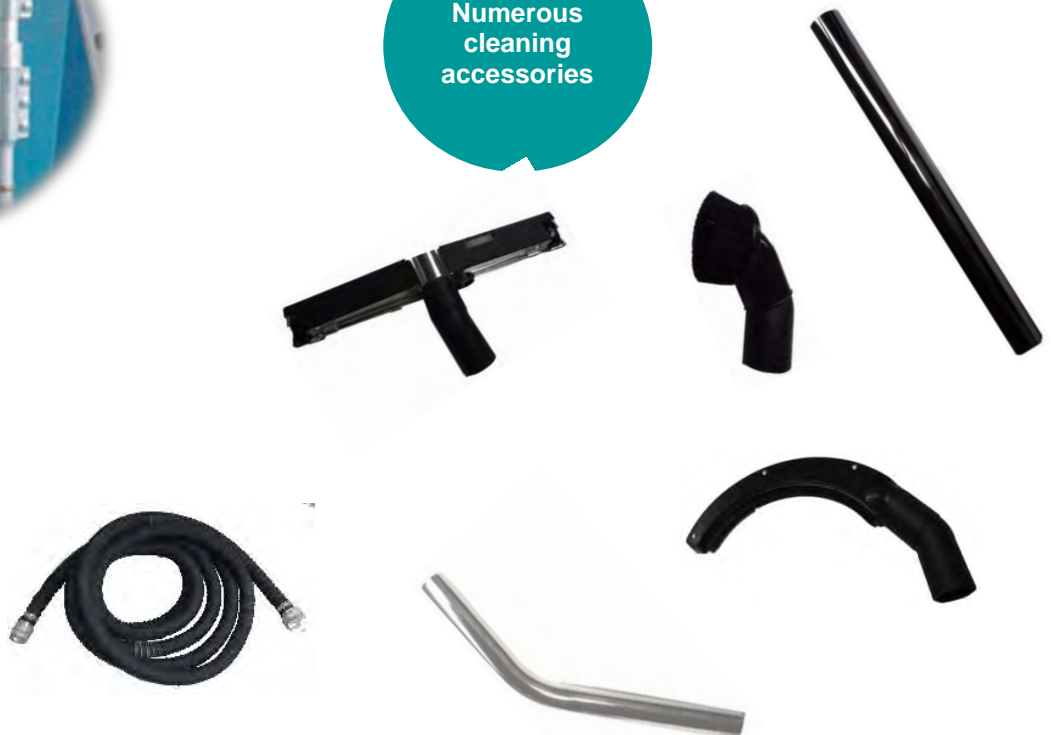
- + Clean and safe working environment
- + Operator protection

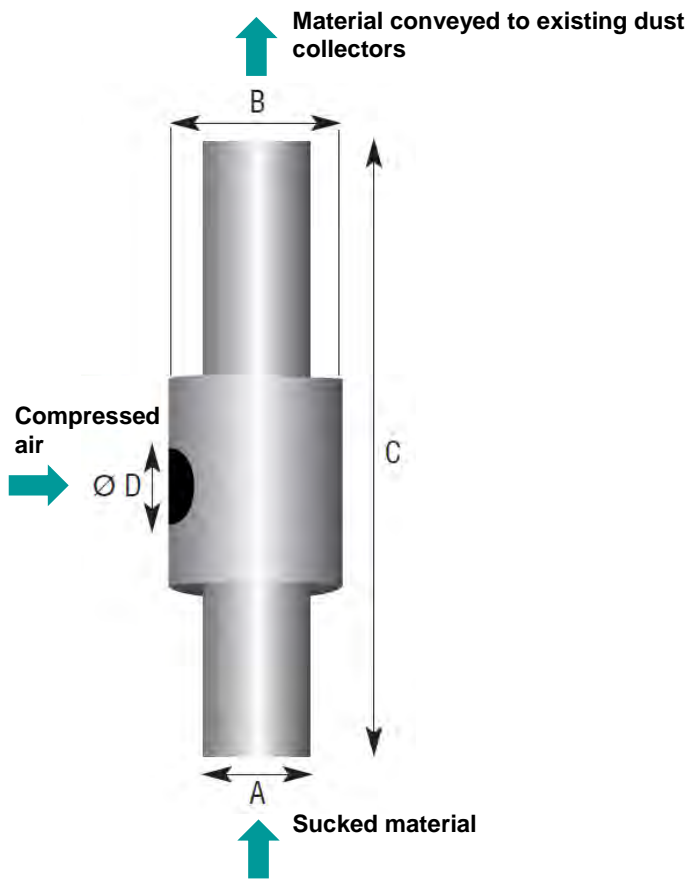
DELTASPI® is a compressed air injector, operating as single workstation, to create a centralised vacuum cleaning system inlet, in dust control installation.

Connected to the dust control network, the **DELTASPI®** can efficiently suck up dusts on factory floors, around dust removal systems with cleaning accessories (flexible hose, sucker, broom...), these dusts are then conveyed into the purifier.



Numerous
cleaning
accessories





DIMENSIONS

	Model 1	Model 2
A (mm)	50,8	37
B (mm)	70	70
C (mm)	191	190
Ø D	G3/8	G3/8

CHARACTERISTICS

	Model 1	Model 2
Compressed air pressure (Bar)	5,5	5,5
Maximum negative pressure (DaPa)	850	1 950
Maximum sucked air flow (m ³ /h)	340	160
Compressed air use (Nm ³ /min)	1,35	1,35

ATEX ACCESSORIES



To guarantee safety by stopping or limiting the effects of an explosion, avoiding the spread of an explosion and to improve working conditions

The classification of ATEX zones generates significant excess cost. To limit the size of ATEX zones, thereby reducing the investment costs, NEU proposes :

- + Full ATEX analysis of air processing installations
- + Dust analysis
- + Upgrade of existing air processing installations for ATEX compliance
- + Maintenance by qualified personnel
- + Training with an internal Ism-ATEX instructor, level 3-M

Obligations

To draw up a document concerning explosion protection measures
To take all necessary technical and organisational measures to prevent the formation of explosive atmospheres,
To indicate risk areas

CLASSIFICATION OF LOCATIONS WITH EXPLOSIVE ATMOSPHERE RISK

Dust	Gases, vapours and mists
Zone 20 : Location where an explosive atmosphere in the form of a cloud of combustible dust is constantly present for long periods or on frequent occasions.	Zone 0 : Location where an explosive atmosphere consisting of a mixture of air with inflammable substances in the form of a gas, vapour, or mist is constantly present for long periods or on frequent occasions.
CONSTANT DANGER	
Zone 21 : Location where an explosive atmosphere in the form of a cloud of combustible dust is likely to arise occasionally during normal operation.	Zone 1 : Location where an explosive atmosphere consisting of a mixture of air with inflammable substances in the form of a gas, vapour, or mist is likely to arise occasionally during normal operation.
POTENTIAL DANGER	
Zone 22 : Location where an explosive atmosphere in the form of a cloud of combustible dust is not likely to arise during normal operation or, if present, only remains for a short time.	Zone 2 : Location where an explosive atmosphere in the form of a mixture of air with inflammable substances in the form of gas, vapour, or mist is not likely to arise during normal operation or, if present, only remains for a short time.
MINIMAL DANGER	



INSTALLATION EXAMPLE

Air recycling

Technical decoupling via :

- + Gate valve
- + Or explosion valve
- + Or découpler



Dust extractor

- + Zone 20 dirty air side
- + Zone 22 clean air side
- + Application submitted to a notified organization for an installation in Zone 1/21 and 2/22
- + Equipped with an ATEX sequencer to clean the filter elements



Technical decoupling

- + Non-return valve or
- + Explosion valve or
- + Decoupler in case of explosion risk arising from the process

ATEX emission controller

To declassify the fan and ensure bypassing in the event of emission

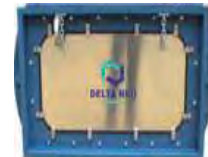


Fan
NF EN 14986 compliant fan

Explosion containment

Sizing as per NF EN 14491

- + By vent or
- + Indoor vent or
- + Explosion suppression



Dust extraction

ATEX certified sluice gate as a flame barrier and for overpressure resistance





The D.E.M. is a dust emission monitoring device which operates on the triboelectric principle: the airborne particles generate static electricity as they strike the measuring probe, thereby inducing a weak but measurable current.

The more numerous the particles, the stronger the current.

The D.E.M. is generally fitted in chimneys downstream from the dust filters.

It constantly monitors, measures and checks the dust emissions from your facilities.

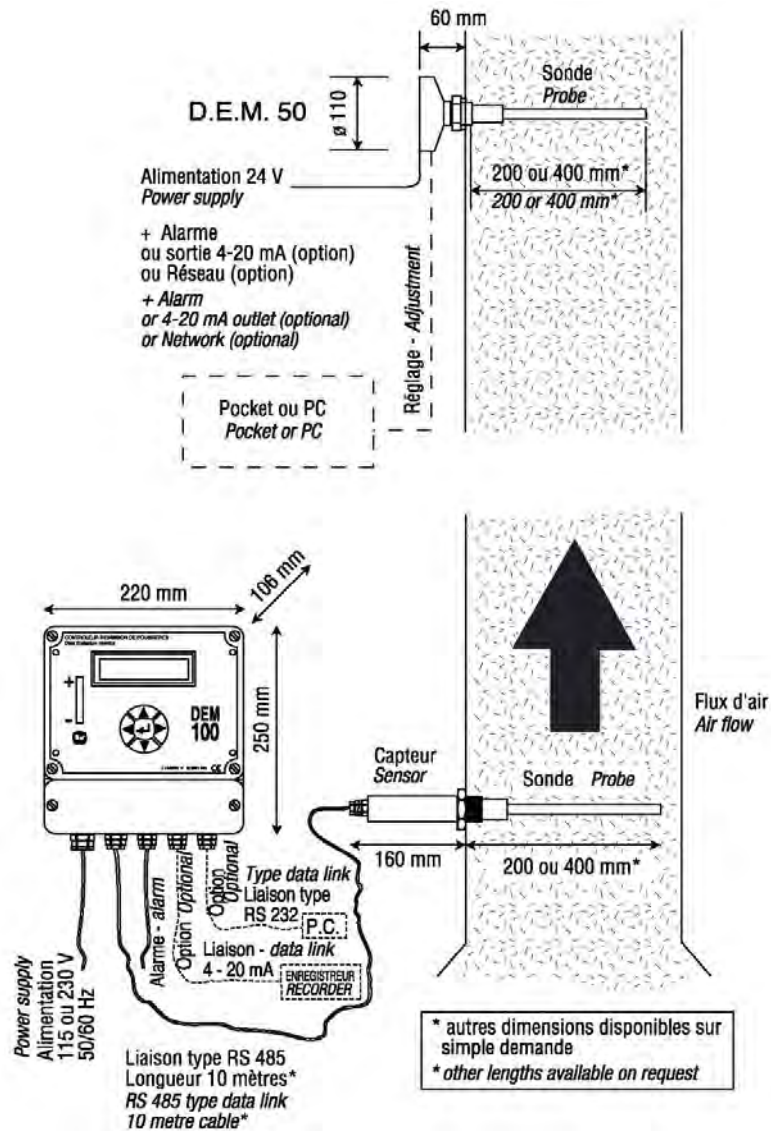
The preventive control of the quality of the filtration system allows:




- + The possible derating of the fan located downstream of the dust collector (ATEX directive)
- + The quality control of the air reintroduced into work areas and buildings
- + The follow-up of possible drift allowing to anticipate a failure (with regard to the regulatory control according - February 2, 1998)

CHARACTERISTICS

- + Spot measurements and/or average readings over a programmable period
- + Alarm threshold adjusted from 0,01 to 50 mg/m³
- + Personal identification code secures access to the settings

OPERATING PRINCIPLE



View	Model	Alarm relay threshold	Display of instantaneous or average emission	Control & settings	Outlet (option)	Memory	Power supply
	D.E.M. 30	2	Bargraph	Operator interface or remote box	-	-	24 V DC
	D.E.M. 50	1	Yes	PC or Pocket	4-20 mA	-	24 V AC-DC
	D.E.M. 100	1	Yes	Remote box	4-20 mA	1 month storage	115/230 V - 50/60 Hz