



DUST CONTROL



Compact dust collector for discontinuous process *POLUCLEAN[®] SI*

DUST TREATED

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

Aim to :

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



APPLICATIONS

Dust extraction on operations such as :

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


BENEFITS

- + Installed next to the process
- + High filtration level: emission level <math>< 2 \text{ mg/m}^3</math> (without secondary filter)
- + Compactness
- + 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

NF EN 779 STANDARD

Average arrestance of a synthetic dust		METALLIC MESH FILTER
G1 < 65 %	Large particles	
G2 < 80 %		
G3 < 90 %		
G4 > 90 %		

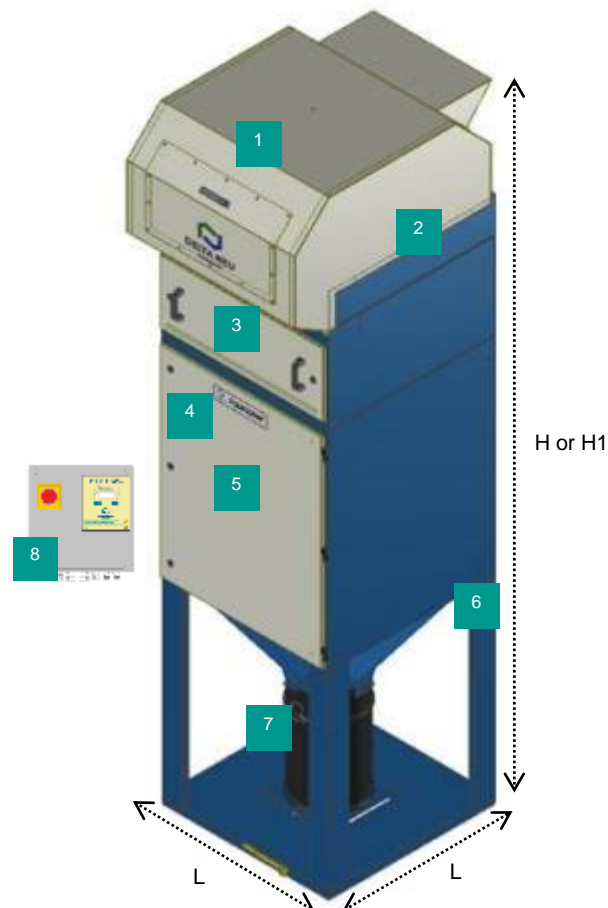
Average efficiency with 0.4 μm particles		PLEATED MEDIA FILTER
M5 < 60 %	Average particles	
M6 < 80 %		
F7 < 90 %	Fine particles	
F8 < 95 %		
F9 > 95 %		

Secondary Filter (option) 

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

Features

- 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
- Optional : secondary F8 filter



MODEL RANGE

Modèle	Hopper POLUCLEAN®						Silo top POLUCLEAN®					
	L (mm)	Air flow (m ³ /h)	H* (mm)	H1** (mm)	Bin volume (liters)	Weight (kg)		H* (mm)	H1** (mm)	Weight (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	

UNILINE FAN CHARACTERISTICS

* without secondary filter ** with secondary filter

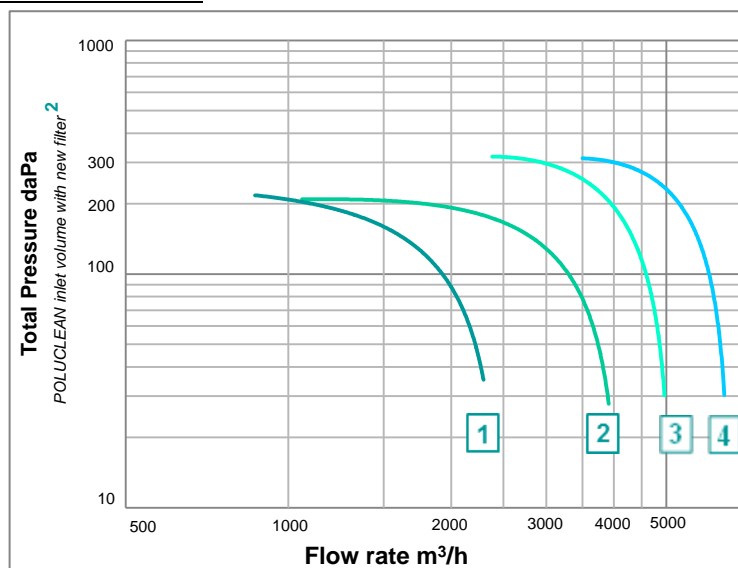
Curve n°	Fan	Power (kW)	Noise level dB(A) ¹
1	35 - 0.42	2,2	67
2	35 - 0.6	2,2	65
3	42 - 0.5	5,5	71
4	42 - 0.6	7,5	72

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

MAINTENANCE

Spare parts and maintenance
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² Add filter pressure loss (120 daPa) in pressure loss calculation