



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

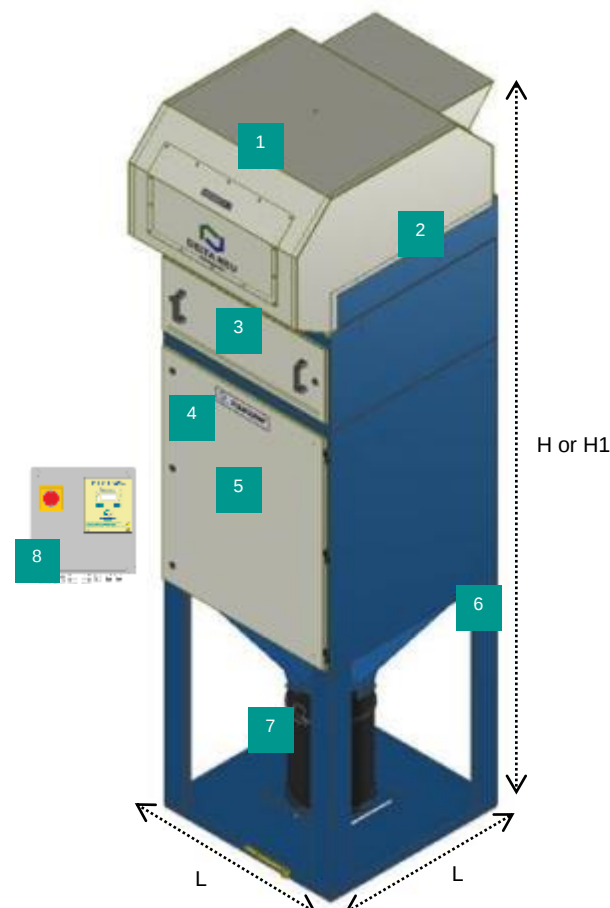
- + Installed next to the process
- + High filtration level: emission level < 2 mg/m<sup>3</sup> (without secondary filter)
- + Compactness
- + Filtering efficiency allowing air to be recycled in the workshop (with secondary filter & for non CMR dust)
- + Easy to set up
- + No compressed air
- + Maximum 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 |                      |
| M 6 < 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 m<sup>3</sup>/h to 4 000 m<sup>3</sup>/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 <sup>3</sup> /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

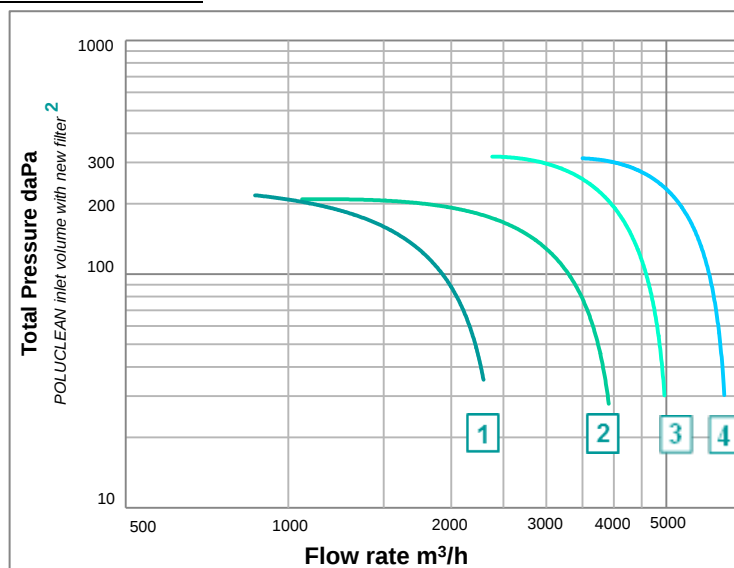
| Curve n° | Fan       | Power (kW) | Noise level dB(A) <sup>1</sup> |
|----------|-----------|------------|--------------------------------|
| 1        | 35 – 0.42 | 2,2        | 67                             |
| 2        | 35 – 0.6  | 2,2        | 65                             |
| 3        | 42 –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

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

### MAINTENANCE

Spare parts and maintenance  
Delta Neu Services & Maintenance

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<sup>2</sup> Add filter pressure loss (120 daPa) in pressure loss calculation