



Cyclofilter

Cyclopac

Features



Suitable for collection of virtually any type of dry dust

4,500 - 160,000 m³/h

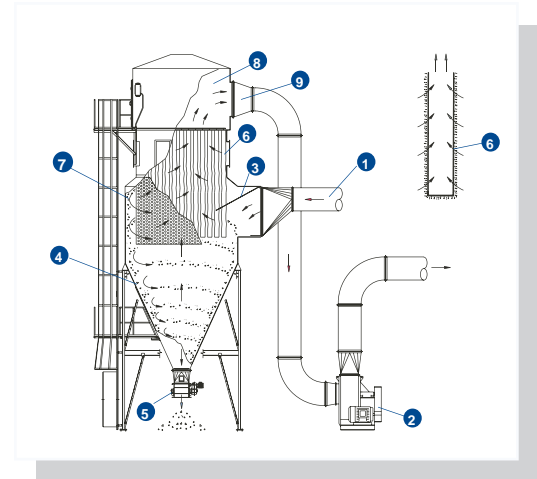
- High efficiency design
- Outdoor placement
- Excellent for high volumes of waste
- Small footprint
- Positive or negative configurations
- Single units up to 160,000 m³/h

**Cutting • Grinding • Heavy Moulding • Milling • Polishing
Rice • Wood • Large Particle Separation**

How It Works

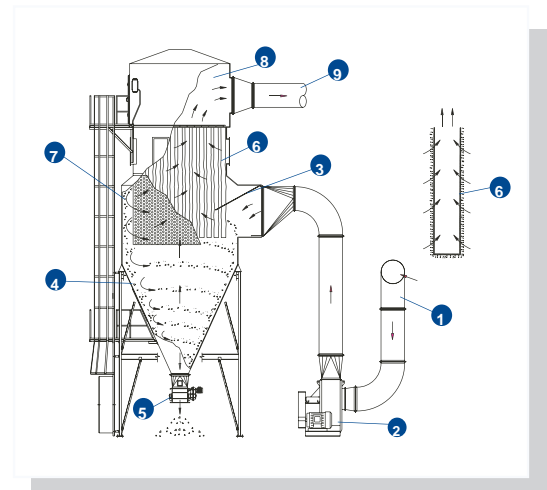
...A negative pressure configuration

1. During normal operation, the dust is drawn down the supply duct **1** and into the Cyclofilter.
2. Upon entering the Cyclofilter, the air and material are diverted into a spiral motion around the inside perimeter. **4** The centrifugal force applied by the side wall allows the heavier material to fall out of the air stream and out of the material discharge **5** at the bottom of the collector.
3. All of the filter bags **6** are contained within a specially designed perforated cylinder **7** which protects the bags from abrasion. The perforations also allow air through which reduces the upward velocity of the remaining air.
4. The dirty air collects on the outside of each filter bag **6** while the clean air passes through to the middle. A "tube sheet" **7** holds the bags open at the top and allows the clean air to escape into the clean air chamber **8** and into the air outlet. **9** From there, duct work connects the clean air outlet to the main fan **2**.



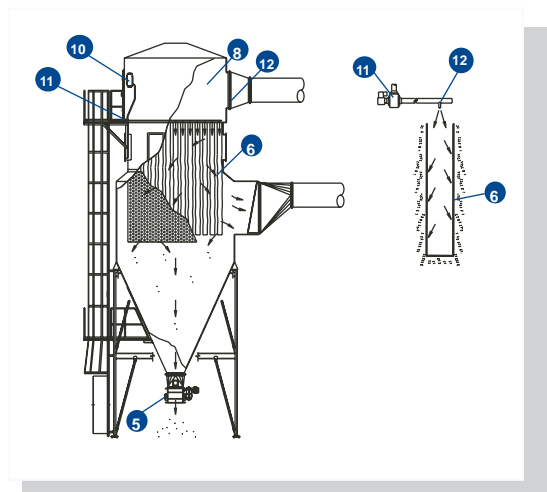
...A positive pressure configuration

1. During normal operation, the dust travels down the supply duct **1** and into the material handling fan **2**. From there, it is blown up into the inlet of the Cyclofilter **3**.
2. Upon entering the Cyclofilter, the air and material are diverted into a spiral motion around the inside perimeter. **4** The centrifugal force applied by the side wall allows the heavier material to fall out of the air stream and out of the material discharge **5** at the bottom of the collector.
3. All of the filter bags **6** are contained within a specially designed perforated cylinder **7** which protects the bags from abrasion. The perforations also allow air through which reduces the upward velocity of the remaining air.
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...while cleaning

1. The Cyclofilter comes standard with a Delta-P gavage to control the compressed air cleaning. In essence, the filter cleans itself when it needs to!
2. A compressed air line must be connected to the open end of the compressed air manifold **10** located within the clean air chamber **8**.
3. When the filter bags **6** begin to get dirty, a pressure sensor detects the increased resistance through the bags. A solenoid valve **11** opens to allow air in from the manifold and into the jet tubes **12**. The jet tubes are aligned above each row of filter bags.
4. The downward blast blows the dust off the tubular filter bag **6** from the inside out. The dust then drops into the hopper section where it then exits out the material discharge. **5**



Cyclofilter

Specifications

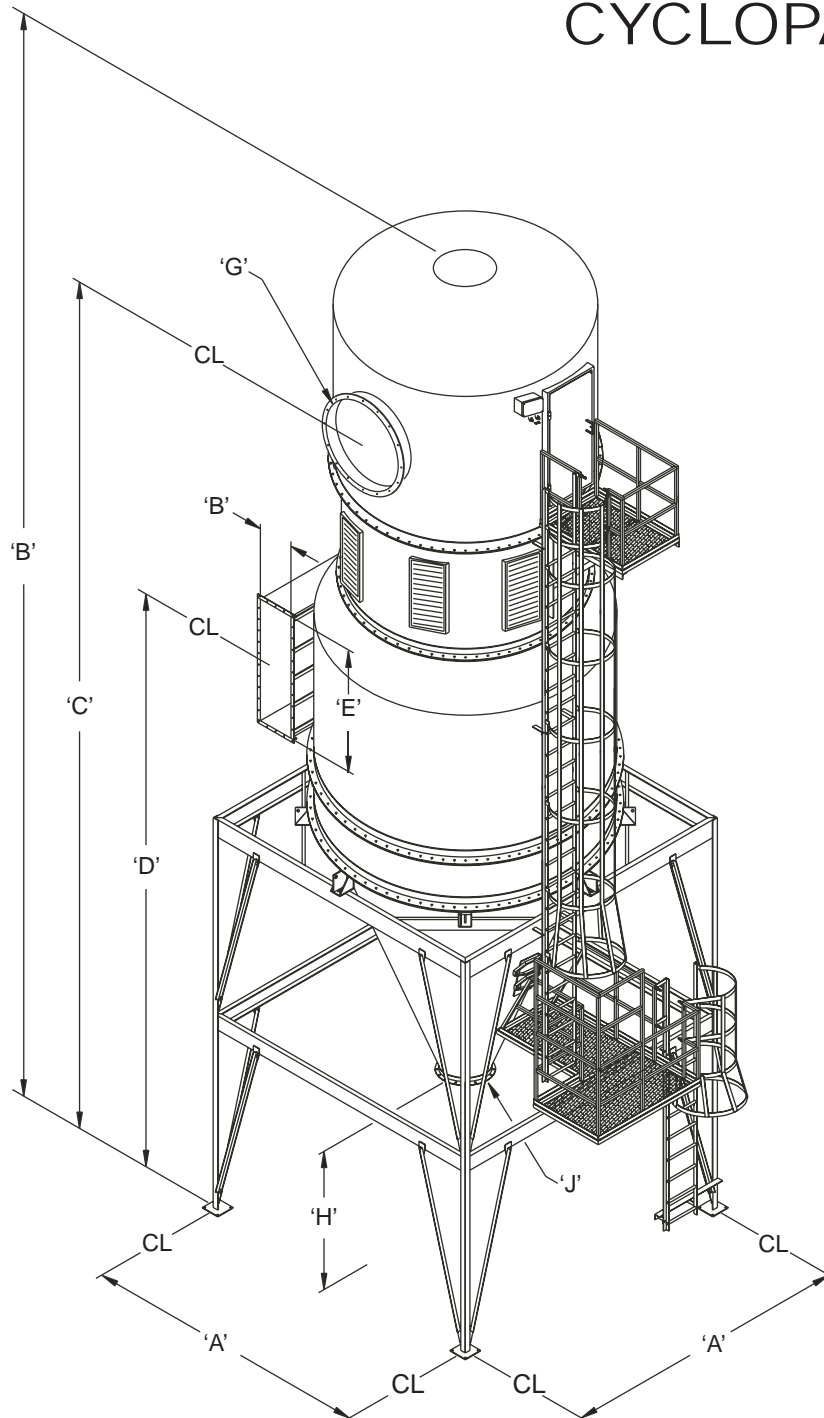
| MODEL NUMBER | NUMBER OF BAGS | FILTER MEDIA (sq.m.) | Maximum AIR flow (m ³ /h)** | 'A' | 'B' | 'C' | 'D' | 'E' | 'F' | 'G' (dia.) | 'H' | 'J' (dia.) | WEIGHT (kg.)* |
|--------------|----------------|----------------------|--|-------|--------|--------|-------|-------|-----|------------|-------|------------|---------------|
| 4Y1 | 22 | 30 | 7,500 | 1,645 | 8,712 | 7,493 | 4,521 | 486 | 156 | 425 | 1,549 | 400 | 850 |
| 4Y2 | 37 | 50 | 12,500 | 2,105 | 9,728 | 8,331 | 5,105 | 575 | 222 | 549 | 1,549 | 400 | 1,070 |
| 4Y3 | 41 | 74 | 18,500 | 2,283 | 10,643 | 9,220 | 5,918 | 838 | 279 | 699 | 1,549 | 451 | 1,400 |
| 4Y4 | 54 | 97 | 25,000 | 2,467 | 11,328 | 9,804 | 6,375 | 1,089 | 286 | 749 | 1,956 | 498 | 1,880 |
| 4Y5 | 82 | 148 | 37,500 | 2,943 | 11,633 | 10,109 | 6,477 | 1,480 | 321 | 902 | 1,956 | 549 | 2,700 |
| 4Y6 | 110 | 198 | 50,000 | 3,429 | 12,497 | 10,922 | 7,188 | 1,581 | 403 | 1,000 | 2,210 | 600 | 3,460 |
| 4Y7 | 154 | 277 | 70,000 | 4,108 | 13,183 | 11,532 | 7,620 | 1,749 | 505 | 1,200 | 2,083 | 600 | 4,600 |
| 4Y8 | 208 | 375 | 94,000 | 4,712 | 14,478 | 12,725 | 8,763 | 1,949 | 651 | 1,400 | 2,616 | 600 | 5,630 |
| 4Y9 | 274 | 494 | 124,000 | 5,334 | 14,859 | 13,335 | 9,627 | 1,130 | 702 | 1,502 | 2,565 | 800 | 7,600 |
| 4Y10 | 354 | 638 | 160,000 | 5,985 | 15,265 | 13,716 | 9,906 | 1,321 | 778 | 1,502 | 3,073 | 800 | 8,200 |

* Weight includes filter, airlock, standard structure, access platforms and ladders
 Unplugged weight should be used for transportation purposes only.
 Plugged weight based on a process material weight of 195 kg./m³

** Maximum air flow is based on loading 250 m³/m²/h with short operation time
 and free flowing dust, typically loading in wood industry is 180-200 m³/m²/h
 and rice mill app. 140-160 m³/m²/h

Specifications

CYCLOPAC



Cyclofilter

Agriculture Applications



Wood Applications



World wide sales companies



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The world leader in air pollution control

Dantherm Filtration focuses on individual solutions for individual customer needs. We benefit from the experience and expertise of more than 35,000 air cleaning systems. And we deliver unbeatable reliability, low energy consumption and compliance with all

mandatory requirements for a wide range of applications in many different industries all over the world.

Dantherm Filtration is part of the Dantherm Group, a leader in industrial air management,

offering industrial cooling, heating dehumidification, ventilation, air filtration and mobile air management. The group has 3,000 employees and operates globally with production and sales companies in Europe, the US and Asia.



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