

## TopSpin™ Can Extend Filter Life in Heavy Dust Conditions

Donaldson TopSpin™ will extend primary air filter life, boost system efficiency and extend engine life!

### Features

**Separates up to 85% of incoming contaminant per ISO 5011/SAE J726**

- Greatly extends air filter life
- Reduces air filter usage
- Lowers cost per operating hour
- Automatically ejects mixed debris
- Separates more than 99% of 20 micron and above particles

### Operates at a lower RPM

- Less noise
- Longer bearing life
- Lower restriction

### Self-cleaning/self-scavenging

- No maintenance to clean bowl
- No exhaust ejector required

### Easy installation

- Quick installation
- One clamp to tighten
- No wires or power requirements

### Dual mounted bearings

- More robust design
- Extends bearing life

### Lighter Weight

- Lighter than competitive pre-cleaners
- Lighter than Donaldson full-view pre-cleaner

### Application

- Engine airflows of 80 to 1500 cfm (2.3-42.5 m<sup>3</sup>/min).
- Primarily used in medium to heavy dust environments.
- Great for off-road vehicles and equipment from crawler tractors to farm tractors to skid steer loaders.
- Recommended mounting: on top of the air cleaner inlet stack.

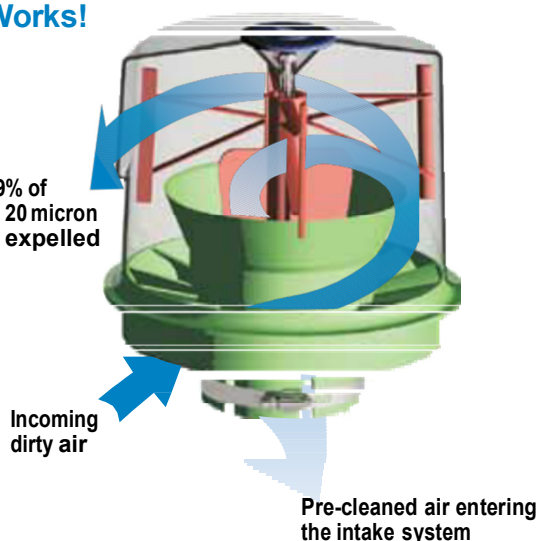


### Donaldson TopSpin™ in Action

Upper left, TopSpin on excavator; upper right, military ground vehicle in middle east; on left, TopSpin on pumper truck in Australia.

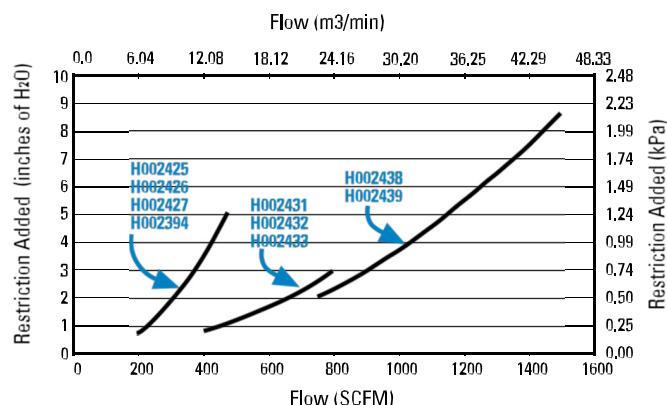
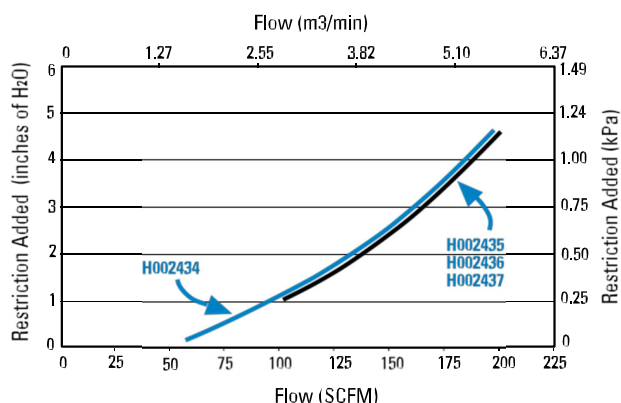
### How it Works!

More than 99% of contaminant 20 micron and larger is expelled



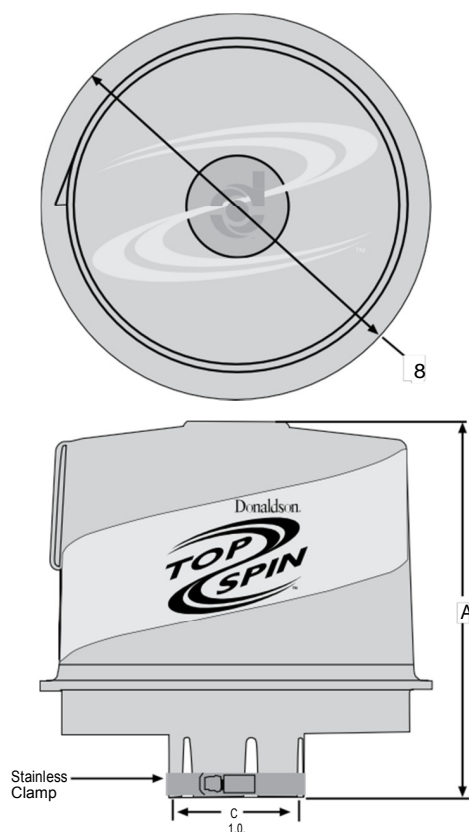
## Performance Curves

Multiple tests conducted per ISO 5011/SAE J726 and average results are shown in charts below.



## Dimensional Specifications

Donaldson TopSpin can be mounted horizontally or vertically. Installation instructions, stainless clamp and warranty are included. Operating temperature range: -40°F to 180°F (-40°C to 82°C)



| Outlet I.D. (C) |     | Overall Height (A) |     | Body Dia. (B) |     | Part Number | Weight lbs. | Weight kg. |
|-----------------|-----|--------------------|-----|---------------|-----|-------------|-------------|------------|
| in              | mm  | in                 | mm  | in            | mm  |             |             |            |
| 2.03            | 52  | 5.75               | 146 | 6.38          | 162 | H002434     | 1.0         | 0.4        |
| 2.27            | 58  | 5.75               | 146 | 6.38          | 162 | H002435     | 1.0         | 0.4        |
| 2.53            | 64  | 5.75               | 146 | 6.38          | 162 | H002436     | 1.0         | 0.4        |
| 3.03            | 77  | 5.75               | 146 | 6.38          | 162 | H002437     | 1.0         | 0.4        |
| 3.07            | 78  | 9.39               | 238 | 9.51          | 242 | H002425     | 2.2         | 1.0        |
| 3.83            | 97  | 9.39               | 238 | 9.51          | 242 | H002426     | 2.2         | 1.0        |
| 4.06            | 103 | 9.39               | 238 | 9.51          | 242 | H002394     | 2.2         | 1.0        |
|                 |     | 11.30              | 287 | 11.32         | 288 | H002431     | 2.7         | 1.2        |
| 4.56            | 116 | 9.39               | 238 | 9.51          | 242 | H002427     | 2.2         | 1.0        |
|                 |     | 11.30              | 287 | 11.32         | 288 | H002432     | 2.7         | 1.2        |
| 5.03            | 128 | 11.30              | 287 | 11.32         | 288 | H002433     | 2.7         | 1.2        |
| 6.03            | 153 | 13.57              | 345 | 15.62         | 397 | H002438     | 6.0         | 2.7        |
| 7.03            | 179 | 13.57              | 345 | 15.62         | 397 | H002439     | 6.0         | 2.7        |

Cross reference from a full view pre-cleaner to a TopSpin pre-cleaner can be found on the Full-view Pre-cleaner page.

# Full-View Pre-Cleaner



## Full-View Pre-Cleaner Helps Extend Filter Life on Agricultural & Construction Equipment

### Features

- Recommended mounting: on top of the engine intake stack
- Centrifugal force in bowl separates up to 75% of incoming dust before it enters the engine air intake system
- Low maintenance!
- Durable, lightweight, noncorrosive construction
- Full-view plastic bowl lets operator easily see when service is needed
- One-bolt cover retention for service when dirt reaches the level of the arrow, remove top nut and plastic body then empty – no tools required
- Mounting clamp included



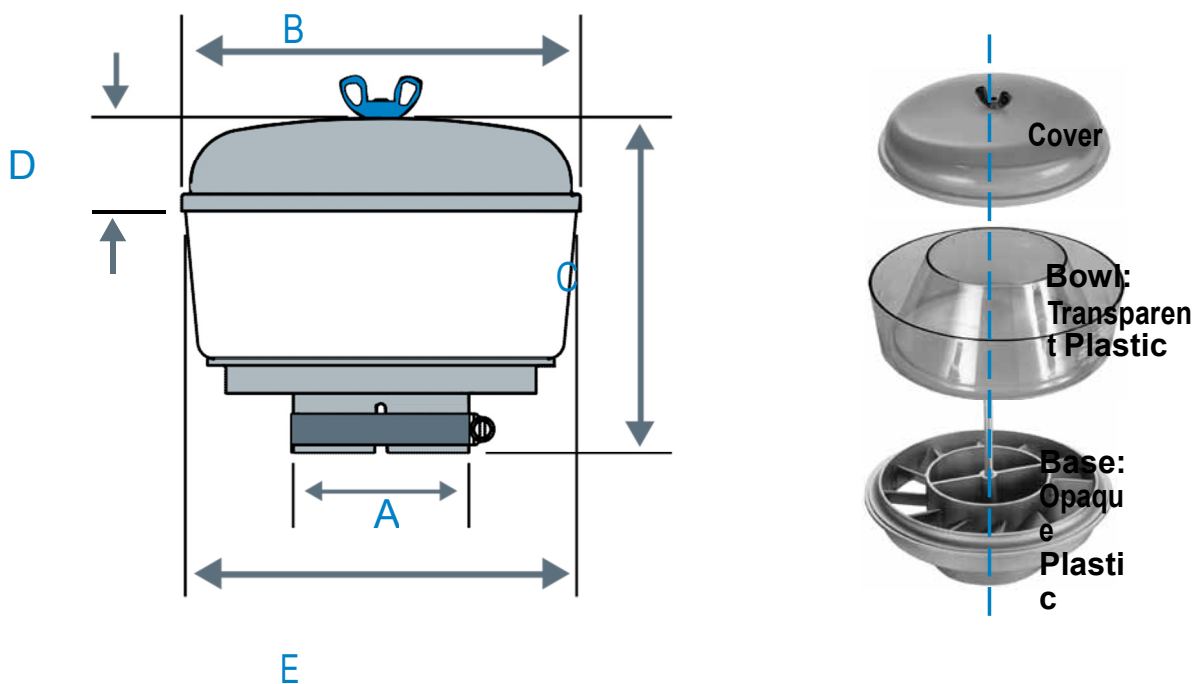
### Tired of Emptying the Cup!

Donaldson has a new pre-cleaner called TopSpin™. Before you consider replacing your full-view pre-cleaner with another one, check out the TopSpin models on the previous two pages.



### Upgrade Path

| Full-View Pre-Cleaner | TopSpin Pre-Cleaner |
|-----------------------|---------------------|
| H000820.....          | H002425             |
| H000821.....          | H002426             |
| H000858.....          | H002394             |
| H000823.....          | H002427             |
| H001250.....          | H002435             |
| H001251.....          | H002436             |
| H001249.....          | H002437             |
| H001823.....          | H002434             |
| H002043.....          | H002433             |
| H002044.....          | H002432             |
| H002045.....          | H002431             |
| H002223.....          | H002438             |
| H002224.....          | H002439             |



### Full-View Pre-Cleaners Specifications

| Inlet (ID/OD) |     |           |     |           |     |           |    |           |     |        |      | Entire<br>F.V. Pre-<br>Cleaner | --- Replacement --- |         | Max.<br>Airflow<br>CFM |
|---------------|-----|-----------|-----|-----------|-----|-----------|----|-----------|-----|--------|------|--------------------------------|---------------------|---------|------------------------|
| --- A ---     |     | --- B --- |     | --- C --- |     | --- D --- |    | --- E --- |     | Weight |      |                                | Cover               | Bowl    |                        |
| in            | mm  | in        | mm  | in        | mm  | in        | mm | in        | mm  | lbs    | kg   |                                |                     |         |                        |
| 1.75          | 44  | 5.59      | 142 | 4.75      | 121 | 1.72      | 44 | 5.50      | 140 | 0.8    | 0.37 | H002042                        | P020116             | P020115 | 80                     |
| 2.00          | 51  | 5.59      | 142 | 4.75      | 121 | 1.72      | 44 | 5.50      | 140 | 0.9    | 0.41 | H002040                        | P020116             | P020115 | 90                     |
|               |     | 7.34      | 186 | 6.19      | 157 | 1.72      | 44 | 7.25      | 184 | 1.4    | 0.64 | H001823 <sup>1</sup>           | P020648             | P020227 | 110                    |
| 2.25          | 57  | 7.34      | 186 | 6.19      | 157 | 1.72      | 44 | 7.25      | 184 | 1.5    | 0.68 | H001250                        | P020648             | P020227 | 130                    |
| 2.50          | 64  | 7.34      | 186 | 6.19      | 157 | 1.72      | 44 | 7.25      | 184 | 1.5    | 0.68 | H001251                        | P020648             | P020227 | 150                    |
| 3.00          | 76  | 7.34      | 186 | 6.19      | 157 | 1.72      | 44 | 7.25      | 184 | 1.6    | 0.73 | H001249                        | P020648             | P020227 | 170                    |
|               |     | 10.63     | 270 | 7.66      | 195 | 1.84      | 47 | 10.50     | 267 | 3.4    | 1.54 | H000820 <sup>1</sup>           | P016548             | P016330 | 320                    |
| 3.75          | 95  | 10.63     | 270 | 7.66      | 195 | 1.84      | 47 | 10.50     | 267 | 3.4    | 1.54 | H000821                        | P016548             | P016330 | 330                    |
| 4.00          | 102 | 10.63     | 270 | 7.66      | 195 | 1.84      | 47 | 10.50     | 267 | 3.4    | 1.54 | H000858                        | P016548             | P016330 | 340                    |
|               |     | 12.06     | 306 | 8.19      | 208 | 2.00      | 51 | 11.94     | 303 | 4.5    | 2.04 | H002045 <sup>1</sup>           | P020345             | P020344 | 660                    |
| 4.50          | 114 | 10.63     | 270 | 7.66      | 195 | 1.84      | 47 | 10.50     | 267 | 3.4    | 1.54 | H000823                        | P016548             | P016330 | 340                    |
|               |     | 12.06     | 306 | 8.19      | 208 | 2.00      | 51 | 11.94     | 303 | 4.5    | 2.04 | H002044 <sup>1</sup>           | P020345             | P020344 | 700                    |
| 5.00          | 127 | 12.06     | 306 | 7.69      | 195 | 2.00      | 51 | 11.94     | 303 | 4.5    | 2.04 | H002043                        | P020345             | P020344 | 740                    |
| 6.00          | 152 | 16.25     | 413 | 10.00     | 254 | 2.81      | 71 | 15.94     | 405 | 9.2    | 4.17 | H002223                        | P104691             | P158324 | 1300                   |
| 7.00          | 178 | 16.25     | 413 | 10.00     | 254 | 2.81      | 71 | 15.94     | 405 | 9.2    | 4.17 | H002224                        | P104691             | P158324 | 1500                   |

1 - Heavy Duty Option



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