



Single and Dual Stage Self-Cleaning Precleaners

Protection in the Dirtiest Environments

AIR



Protection

Safeguard Your Equipment and Your Bottom Line

Air filter life is directly related to the amount of debris ingested through an engine's air intake. Installing a Fleetguard® Self-Cleaning Precleaner as the first stage of an air intake system prevents the majority of heavier-than-air particles from entering the system. This results in longer air filter life, more efficient engine performance and decreased maintenance expenses.

Benefits

- **Extends air filter life** – Handles all kinds of mixed debris, including mud, snow, rain, leaves, sawdust, chaff, and dust
- **Increases uptime** – Lowers cost per operating hour by reducing parts, labor, and downtime
- **Extends engine life** – Lowers air restriction, which increases usable horsepower
- **Withstands harsh conditions** – Rugged engineered polymer construction gives you the strength of steel without the corrosion
- **Expands capacity** – Multiple units can be installed to meet air flow handling requirements
- **Improves fuel efficiency**

Fleetguard Self-Cleaning Precleaners protect your equipment and your bottom line. Available in single or dual stages, you can pick the level of protection you need, no matter the environment.



Single Stage

Air Flow Range: 0.28 - 39.64 m³/m (10 - 1,400 CFM) with single unit installation; 9 models from 51 mm to 205 mm (2" to 8")



Mounting & Equipment Types: Mounts on all vertical and horizontal air cleaner housings, on all machines, replacing those with tube body systems or internal precleaners

Maintenance: Self-cleaning and maintenance-free

Applications: Off-road conditions, construction, mining, forestry, landfills, farming, military and more

Dual Stage

Air Flow Range: 2.83 - 39.64 m³/m (100 - 1,400 CFM) with single unit installation; 3 sizes: 102 mm to 205 mm (4", 6" and 8")



Mounting: Requires engine exhaust scavenging connection; Above hood or below hood depending on space availability on equipment

Maintenance: Removable cover for easy access to inspect and clean, if necessary

Applications: Waste, Mining and Forestry

Elevation: Sea level to 3,000 m

Technology

Maximum Protection with Minimum Maintenance

How the Fleetguard® Precleaner Works

Single Stage

Step 1

Air enters the underside of the dome through screened louvers. This prevents clogging by blocking any particles larger than the ejection slot from entering the unit.

Step 2

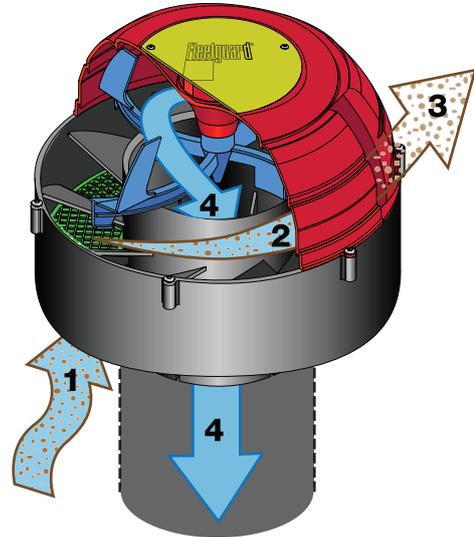
Curved particle-accelerator blades direct air and dirt up against the sidewall.

Step 3

Strakes (angled fins) along the interior surface move heavier-than-air debris towards the ejection slot.

Step 4

Clean air continues to swirl down into the engine air inlet pipe.



Dual Stage

Step 5

Precleaned air with any remaining debris swirls into the second stage. Heavier-than-air debris is forced outward to travel around the outside walls.

Step 6

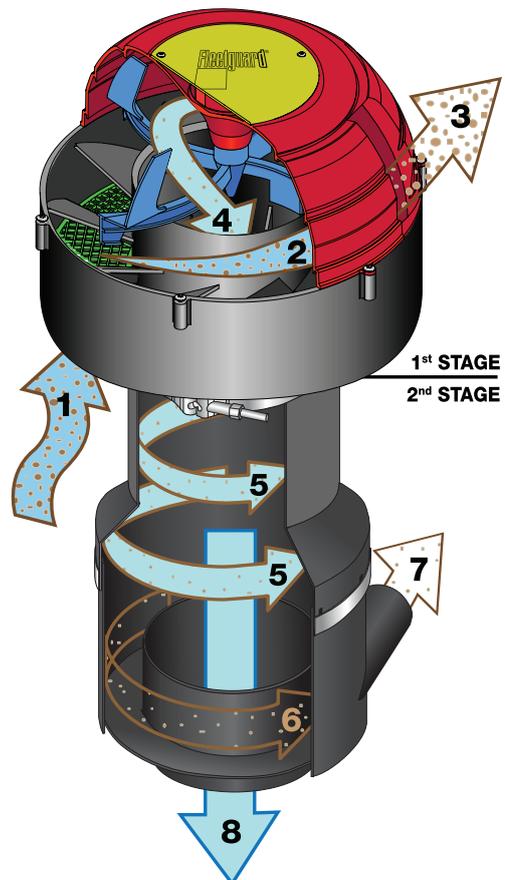
When the debris laden air reaches the bottom tray, heavier-than-air debris is channeled toward the ejection port.

Step 7

Debris is ejected through the exhaust scavenging connection.

Step 8

Clean air passes through the center area of the chamber and into the engine's air inlet pipe.



Choose the Best Size and Airflow Options for Your Equipment

Single Stage Air Precleaners

Fleetguard Part #	CFM Range	m ³ /min	Intake
AP8407	10 - 50	0.28 - 1.42	51 mm (2")
AP8408	50 - 120	0.42 - 3.40	76 mm (3")
AP8403	100 - 275	2.83 - 7.79	102 mm (4")
AP8409	275 - 350	7.79 - 9.91	102 mm (4")
AP8421	350 - 500	9.91 - 14.16	127 mm (5")
AP8404	500 - 650	14.16 - 18.41	152 mm (6")
AP8410	650 - 800	18.41 - 22.65	152 mm (6")
AP8405	800 - 1150	22.65 - 32.56	203 mm (8")
AP8406	1150 - 1400	32.56 - 39.64	203 mm (8")

Dual Stage Air Precleaners*

Fleetguard Part #**	Application / Mounting	Stage 1 Part #	CFM Range	m ³ /min	Intake
AP85035	Above Hood	AP8403	100 - 275	2.83 - 7.79	102 mm (4")
AP85036	Above Hood	AP8403	100 - 275	2.83 - 7.79	102 mm (4")
AP85037	Above Hood	AP8409	275 - 350	7.79 - 9.91	102 mm (4")
AP85038	Above Hood	AP8409	275 - 350	7.79 - 9.91	102 mm (4")
AP85041	CAT D6 R/N	AP8404	500 - 650	14.16 - 18.41	152 mm (6")
AP85042	CAT D7 R/N	AP8404	500 - 650	14.16 - 18.41	152 mm (6")
AP85043	Under Hood	AP8404	500 - 650	14.16 - 18.41	152 mm (6")
AP85044	Above Hood	AP8404	500 - 650	14.16 - 18.41	152 mm (6")
AP85046	Above Hood	AP8404	500 - 650	14.16 - 18.41	152 mm (6")
AP85047	Under Hood	AP8404	500 - 650	14.16 - 18.41	152 mm (6")
AP85101	Under Hood	AP8410	650 - 800	18.41 - 22.65	152 mm (6")
AP85102	Above Hood	AP8410	650 - 800	18.41 - 22.65	152 mm (6")
AP85104	Under Hood	AP8410	650 - 800	18.41 - 22.65	152 mm (6")
AP85105	Above Hood	AP8410	650 - 800	18.41 - 22.65	152 mm (6")
AP85051	CAT D8 R/N	AP8405	800 - 1150	22.65 - 32.56	203 mm (8")
AP85052	Under Hood	AP8405	800 - 1150	22.65 - 32.56	203 mm (8")
AP85053	CAT D9 R/N	AP8405	800 - 1150	22.65 - 32.56	203 mm (8")
AP85054	Above Hood	AP8405	800 - 1150	22.65 - 32.56	203 mm (8")
AP85055	CAT 826 G	AP8405	800 - 1150	22.65 - 32.56	203 mm (8")
AP85057	Above Hood	AP8405	800 - 1150	22.65 - 32.56	203 mm (8")
AP85058	Under Hood	AP8405	800 - 1150	22.65 - 32.56	203 mm (8")
AP85152	CAT D8 N	AP8405	800 - 1150	22.65 - 32.56	203 mm (8")
AP85154	CAT 836 GS	AP8405	800 - 1150	22.65 - 32.56	203 mm (8")
AP85163	Above Hood	AP8405	800 - 1150	22.65 - 32.56	203 mm (8")
AP85061	CAT 836 GC	AP8406	1150 - 1400	32.56 - 39.64	203 mm (8")
AP85062	Under Hood	AP8406	1150 - 1400	32.56 - 39.64	203 mm (8")
AP85063	Under Hood	AP8406	1150 - 1400	32.56 - 39.64	203 mm (8")
AP85064	Above Hood	AP8406	1150 - 1400	32.56 - 39.64	203 mm (8")

* Dual Stage precleaners are for use only on machines equipped with an exhaust scavenger

** Universal or CAT applied

For more information regarding Dual Stage Precleaner selection for your equipment, please contact your local Customer Assistance Centre or visit www.cumminsfiltration.com.



For more information, visit
cumminsfiltration.com

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