

Clean Air Technology Products

Series 9000™ Air Precleaner

Gideon™ Technology Powered Air Precleaner

Gideon™ Technology Powered HVAC Air Filtration System

OPTIMAX™ Dual-stage Engine Air Precleaner

Clean Air Technology Products Available to Caterpillar

CAT Turbine Air PreCleaner

Private labeled by Caterpillar in 1996 and introduced as the CAT Turbine PreCleaner in 1997, the CAT Turbine PreCleaner is manufactured for Caterpillar by Sy-Klone. Based on the patented Series 9000™ family of air precleaners and Sy-Klone's more than 19 years experience in the design and manufacture of atmospheric ejective air precleaners, the CAT Turbine PreCleaner is one of the first precleaners to introduce lightweight, low-drag "airfoil" rotors and the first to employ maintenance-free, durable polymer materials for rotors and housings.



D5 hood line with CAT Turbine

Gideon™ Technology Powered Air Precleaner

Gideon™ Technology Powered HVAC Air Filtration System

Designed to provide positive airflow pressure to the cab, the Gideon™ Technology Powered Air Precleaner is added to the existing panel filter while the Gideon Technology Powered HVAC Air Filtration System replaces the panel filter. While both products are designed to extend cab pressurization and fresh air filter life, the Gideon Technology Powered HVAC Air Filtration System integrates a Gideon Technology Powered Air Precleaner and a high efficiency, high capacity fresh air filter that has proven to extend filter life to at least 1,000 hours of operation.



Gideon Technology
Powered Air Precleaner
on Enhanced Cab
Option for D9 - D11
Track-Type Tractors



Gideon Technology Powered HVAC
Air Filtration System (in-line filter)
on an 836G Compactor



Gideon Technology Powered HVAC
Air Filtration System (tangential
filter) on a D8R Track-Type Tractor

OPTIMAX™ Dual-stage Engine Air Precleaner

Despite all of the benefits delivered by the CAT Turbine Precleaner there are applications with extreme debris field environments in which even the CAT Turbine Precleaner fails to provide fully satisfactory performance. In response to this need, Sy-Klone developed a dual-stage precleaner that combines the benefits of both atmospheric-ejective and scavenger based systems. This improvement to the CAT Turbine Precleaner is called OPTIMAX. Currently OPTIMAX retrofit installations are in the field for D6 – D8 tractors and 826 C/G and 836 C/G compactors.



OPTIMAX Dual-Stage Precleaner on D8R

CAT Turbine PreCleaner is installed at the factory on these machine types

Excavators Option on 320C, 330C, 345C	Track Loaders Option on 963C, 973C
Track-Type Tractors Standard on D3 – D5 Option on D6 – D11	Wheel Loaders Option on 924G, 928G, 938G, 950G, 962G, 988G, 990 II, 992G Standard on 994D
Motor Graders Option on 120H, 135H, 12H, 140H, 143H, 163H, 14H, 16H	Compactors Option on 816F, 826G, 836G

OPTIMAX is installed at the factory on these machine types

Excavators Under development for 320C, 345C Option on 330C	Track Loaders Under Development 963C, 973C
Track-Type Tractors Precleaner Option on D6 – D10 Under Development for D11	Wheel Loaders Under development for 938G, 950G, 962G, 972G, 980G, 988G, 990 II, 992G, 994H
Motor Graders Under development for 120H, 135H, 12H, 140H, 143H, 163H, 14H, 16H	Compactors Precleaner Option on 826G, 836G

Gideon Technology Powered HVAC Air Filtration System is installed at the factory on these machine types

Excavators Under development for 320C, 345C Option on 330C	Track Loaders Under Development 963C, 973C
Track-Type Tractors Option on D6 – D8 Part of Enhanced Cab Option for D9 – D11	Wheel Loaders Under development for 938G, 950G, 962G, 988G Option on 990 II, 992G, 994D (precleaner only)
Compactors Option on 826G, 836G	