

Specifications:

Models

3" Inlet - 5" Outlet Available with either 12 or 24 VDC Motor

5" Inlet - 5" Outlet Available with either 12 or 24 VDC motor

Both models are available with a wire mesh inlet screen. A rain cap is also available for the 3-inch model.

Gideon Precleaner Performance

CFM	Restriction * (in H <sub>2</sub> O)	Efficiency * (%)
25	-.83**	96.4
50	-.53**	94.3
75	-.16**	92.4
100	.46	87.4
125	1.12	81.6

Efficiency as Tested 01/00; PTI SAE - ISO Course Test Dust (Batch 4726C) at 0.056 g/f3 air. At 20°C and 101.3 dPa

\* Results From Southwest Research Institute

\*\* Negative value results in positive outlet pressure

Note: The 3-inch version has the same restriction and efficiency for flow ranges between 0 - 75 CFM.

Results do not include air filter.



Air Filter Specifications

<b>Media Area</b> 37.43 ft <sup>2</sup>	<b>Efficiency</b> 99.9% (per SAE J726) fine dust
<b>Outlet Diameter (ID)</b> 4 inches	<b>Filter media is water resistant</b> -- Remains ridged and retains shape when moist -- Does not wick water
<b>Rated for up to 230°F continuous use.</b>	

Dimensions

<b>Gideon Precleaner: (L x W x H)</b> 3" inlet w/Raincap: 9.89" x 7.875" x 7.875" 5" Inlet w/ screen: 7.5" x 7.5" x 7.5"
<b>Gideon HVAC System: (L x W x H)</b> 29.6" x 7.875" x 9.6"

Warranty

Sy-Klone International, LTD. provides a limited warranty for two years or 5,000 operating hours. Ask your Authorized Gideon dealer for complete warranty details and limitations.

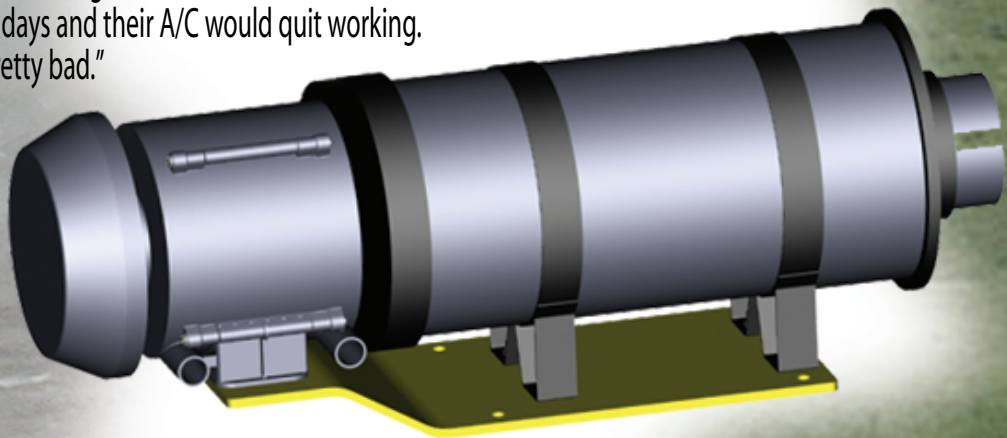
Ask your authorized dealer how Sy-Klone's complete line of air precleaning products can help you make money and extend the operating life of your machines. You can also visit us on the web for additional information at: [www.sy-klone.com](http://www.sy-klone.com)

THE FUTURE IS HERE...  
AND THERE IS NO GOING BACK

Gideon Technology Will:  
Extend Filter Life by  
Hundreds of Hours  
Maintain Cab Pressurization  
(Even When The A/C is Off)  
Keep Evaporator and  
Heater Cores Clean  
Increase Operator Comfort

BEFORE GIDEON TECHNOLOGY

"On some days it can be real bad. We have a real hard time keeping air conditioners clean, filters changed out. We were changing filters once a day, sometimes blowing out twice a day. A/C filters were a never ending battle. Cleaning the coils, odors in the cabs. They go 2-3 days and their A/C would quit working. It has been pretty bad."



WITH GIDEON TECHNOLOGY INSTALLED

"Filter life has increased dramatically. The re-circ filters, they were tapping them out once a day. Now we are lucky if we touch them once a week. We don't have any reason to. Operator difference, pressurized the cab better. They don't have to run the A/C units as hard, it's cool all the time. They say it has cut the smell down tremendously. Really big improvement with the Gideon, especially in operator comfort."

Your SY-KLONE Dealer is:

Manufactured by:  
**SY-KLONE**  
INTERNATIONAL, LTD.  
P.O. Box 550859  
Jacksonville, FL 32255  
(904)448-6563  
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1-800-351-8265  
[www.sy-klone.com](http://www.sy-klone.com)



# GIDEON POWERED AIR PRECLEANER

Added to the OEM  
HVAC Air Filter System

TYPICAL APPLICATIONS



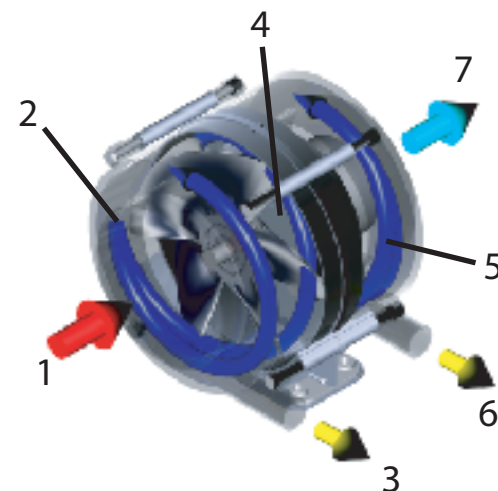
OEM Installation on  
G-III Skidder Cab



After Market Retrofit Installation  
on Track-Type Tractor

## Features and Benefits of the Gideon Powered Air Precleaner:

- Fits on OEM HVAC system
- Internal or external installation
- Compact in size
- Maintains designed cab pressurization over extended operating periods
- Increases operator comfort level
- Extends filter life
- Reduces system maintenance intervals



The Gideon Flow Pattern

1. Debris-laden air enters the primary ejector chamber.
2. Debris particles are accelerated outward by centrifugal forces where they ride the outer wall of the primary ejector chamber until they reach the primary ejector port.
3. The debris particles are ejected into the environment.
4. Air is accelerated as it passes through the louvers further enhancing separating forces acting on the debris.
5. Finer debris particles are stratified in the secondary ejection chamber.
6. Final stratified debris particles are ejected into the environment from the secondary ejector port.
7. Clean air continues onto the existing OEM air filter media.

# GIDEON POWERED HVAC SYSTEM

Replaces the OEM  
HVAC Fresh Air Filter System

TYPICAL APPLICATIONS



Roof Mounted Installation



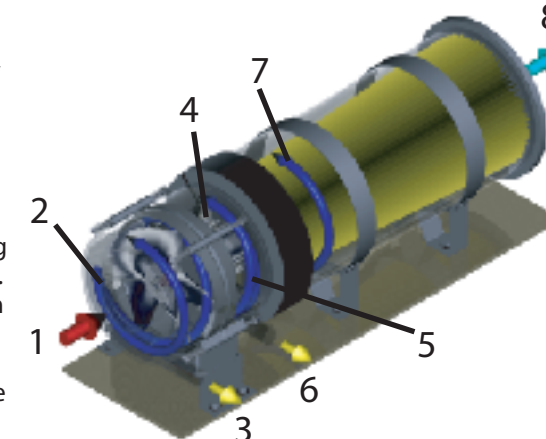
Hood Mounted Installation

## Features and Benefits of the Gideon Powered HVAC System:

- Replaces OEM HVAC fresh air filter system
- Maintains designed cab pressurization over extended operating periods
- Compact, integrated filter system
- Increases operator comfort level
- Reduces system maintenance intervals
- Extended-life filter
- Keeps heater and evaporator coils clean

The Gideon HVAC System Flow Pattern

1. Debris-laden air enters the primary ejector chamber.
2. Debris particles are accelerated outward by centrifugal forces where they ride the outer wall of the primary ejector chamber until they reach the primary ejector port.
3. The debris particles are ejected into the environment.
4. Air is accelerated as it passes through the louvers further enhancing separating forces acting on the debris.
5. Finer debris particles are stratified in the secondary ejection chamber.
6. Final stratified debris particles are ejected into the environment from the secondary ejector port.
7. Clean air continues into the air filter housing and passes through filter.
8. Fresh air continues into evaporator coil box for heating/cooling.



The Gideon powered air  
precleaner can be installed  
on a variety of different  
machinery.



Prior to Gideon  
Installation



6 months after Gideon  
Installation

A/C coils on a landfill compactor



Operators report cab conditions have  
dramatically improved with the  
Gideon System installed.



Reduction in filter maintenance  
intervals can make you money.



Typical Filter Life  
Improved from  
10 hrs. to 850+ hours