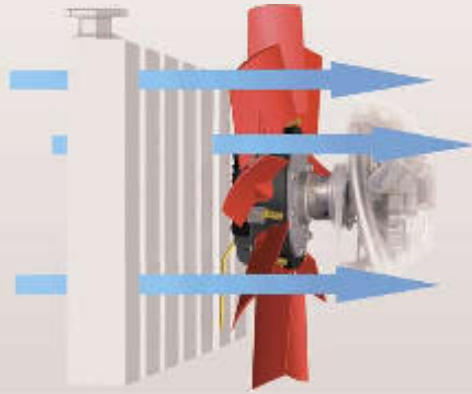


# **CLEANFIX**<sup>®</sup>

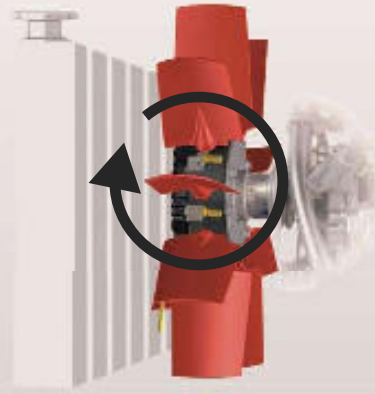
Reversible Fans For Radiator Cleaning

**CLEAN RADIATORS  
SAVE FUEL**

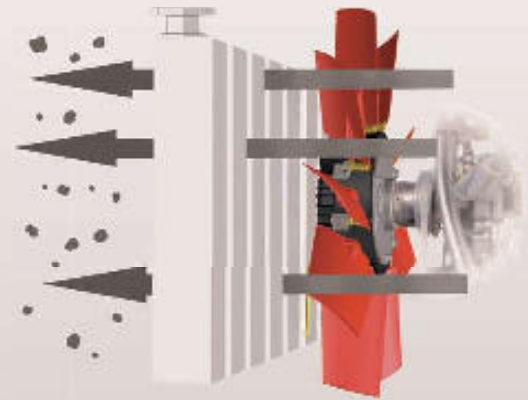




**COOLING**



**REVERSE AT FULL SPEED**



**CLEANING**

# A CLEAN RADIATOR SAVES FUEL, TIME AND PROTECTS FROM OVERHEATING.

More and more radiators and coolers are being installed in modern industrial machinery.

The problem: Your fans are in tough continuous use. Like vacuum cleaners, the fans quickly plug the coolers and grill screens. This results in additional costs of several thousand dollars per year through increased fuel consumption and downtime.

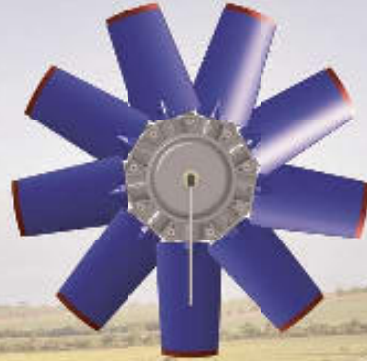
The solution: Our **innovative reversible fans** reverse the airflow to powerfully clean out radiators and screens at the operator's convenience.

CLEANFIX increases the reliability, productivity, and fuel efficiency of your machine.

CLEANFIX is the only fan which provides a high pressure, high cleaning power reverse airflow.

What this means to you: Using CLEANFIX ensures a relaxed and comfortable work environment. You will never need to exit the cab to clean a radiator or be inconvenienced by reduced air-conditioning performance.

# ADVANTAGES OF CLEANFIX





Longer engine life –  
Increased production



Saves fuel –  
up to 6%\*



Keeps your  
radiator clean



Up to 60% less power  
consumption through  
the fan



Less downtime –  
reduced maintenance



Continuous operator  
comfort

\* study by FH Nürtingen and Profi magazine

# 370 GAL

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fuel savings for 1,000 operating hours\*

# 60 %

---

less power consumption by the fan\*

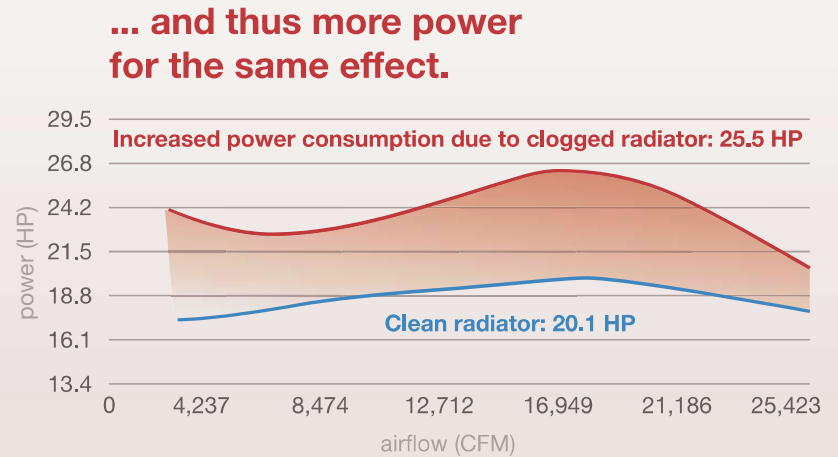
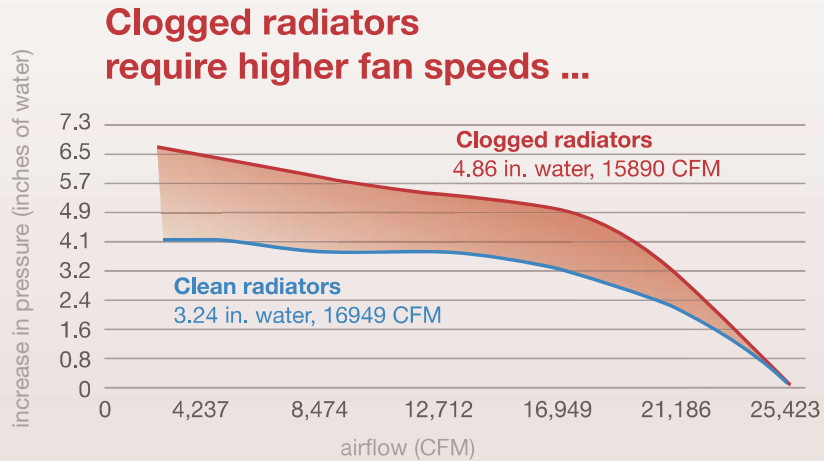
# \$ 2,925

---

labor savings realized within 90 days\*

\*See opposite page.

# IMPRESSIVE DATA:



Spending half an hour each day for radiator cleaning at (\$ 65/hour) for 90 days results in cleaning costs of

**2,925.00 USD**

Fuel savings of 1,000 operating hours using 0.375 gal. per hour (at 5.4HP) with \$ 3.50 per gal.

**1,300.00 USD**

**Total savings per year**

**4,225.00 USD**

# CONSTRUCTION



# FORESTRY



# AGRICULTURE





# CLEANFIX: USED IN A WIDE RANGE OF APPLICATIONS

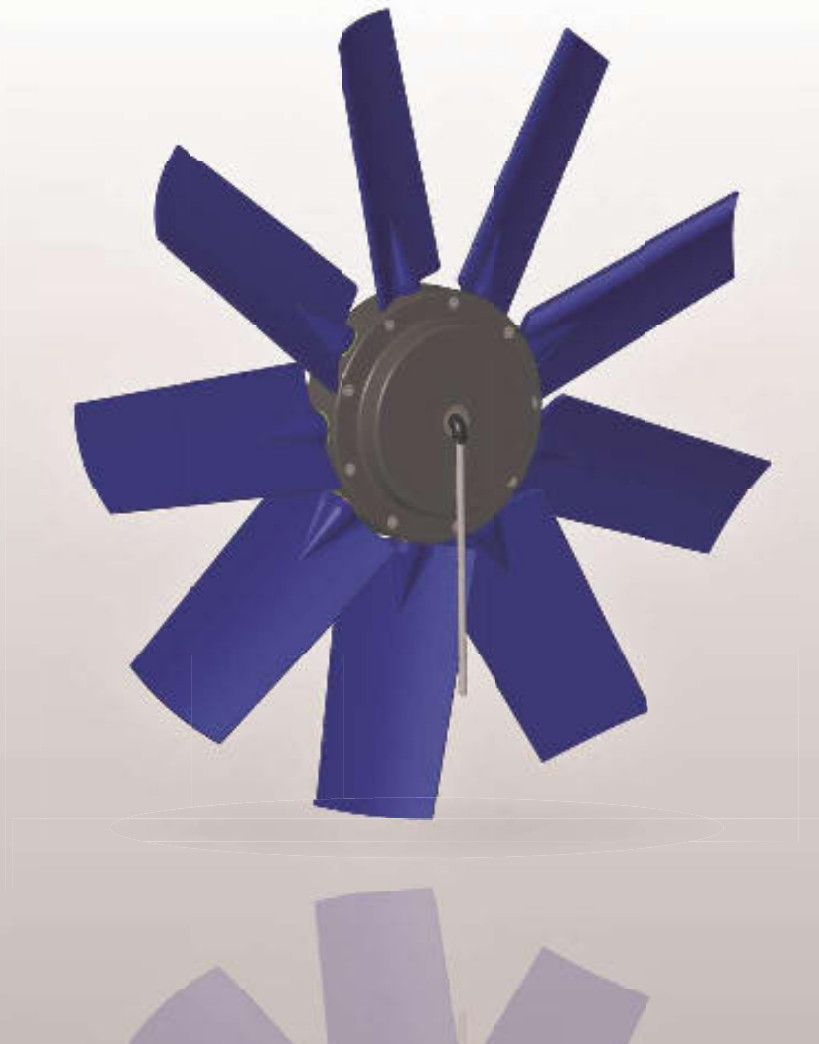
CLEANFIX provides powerful reversible fans for all commercial vehicles that work in dusty or dirty environments.

They reliably blow radiators free of chaff, debris, grass, dirt, corn residue, leaves, cotton, wood chips, sawdust, gypsum, lime, and just about anything else that can clog your radiator. They can even clear frozen screens.

## Where CLEANFIX is used:

- Construction machines
- Municipal machines
- Agricultural machines
- Recycling machines
- Handling machines
- Forestry machines

# **SAVES MONEY AND PROTECTS FROM OVERHEATING:**



# CLEANFIX SC

With the Standard Control (SC) reversible fan, the blades are reversed by compressed air using a pneumatic piston. The blades return to normal operation by spring force. If desired, the cleaning procedure can be automated using an electronic timer.

CLEANFIX fans may be mounted aftermarket using our installation kits custom designed for each application. Additionally, we are ready to help solve your specific cooling needs.

CLEANFIX Flex-Tips are semi-rigid tips affixed to the ends of the fan blades. They increase the airflow of the CLEANFIX SC by 8% to 15%. This allows the fan speed to be reduced resulting in additional fuel and horsepower savings.



CLEANFIX Flex-Tips

# A QUIETER RIDE:



# CLEANFIX VP

The benefits: quieter operation, increased fuel savings, and reduced fan horse power consumption up to 60%.

CLEANFIX Variable Pitch (VP) is built on the success of the SC Series. In addition to the reversing function for cooling and cleaning, this fan series offers a variable blade angle adjustment – according to the cooling requirements of the machine. All this is achieved by the CLEANFIX fan itself, without intervention from the engine electronics.

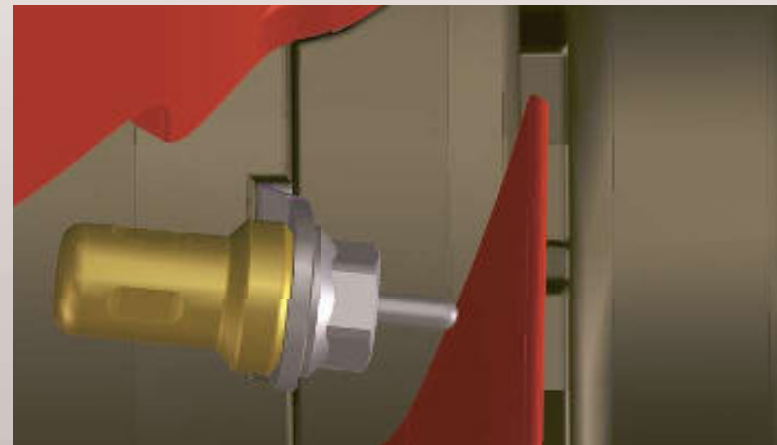
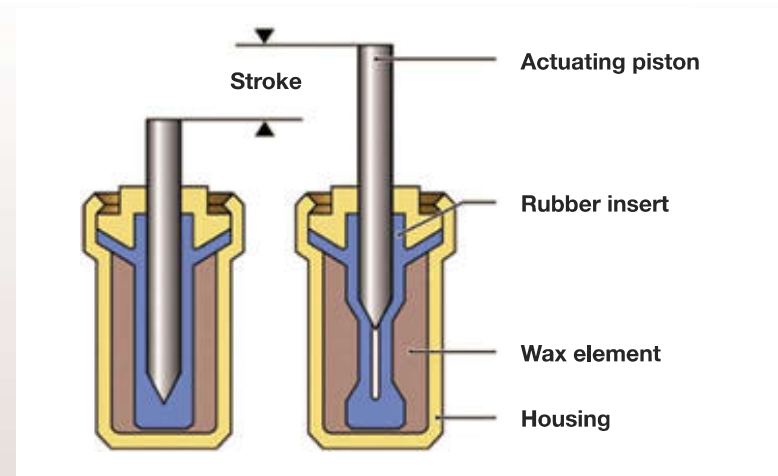
CLEANFIX Flex-Tips on the fan blades allow the reduction of fan speed attaining even more fuel savings.

**The variable pitch control is completely reliable.**

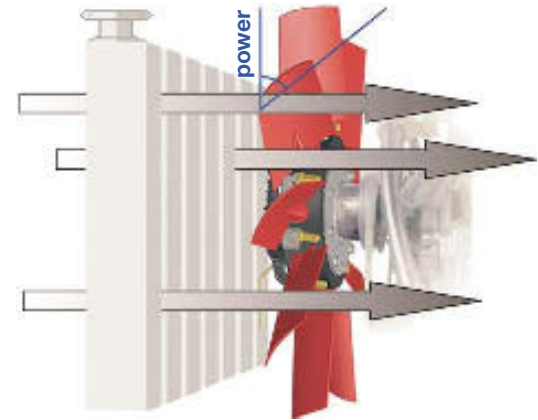
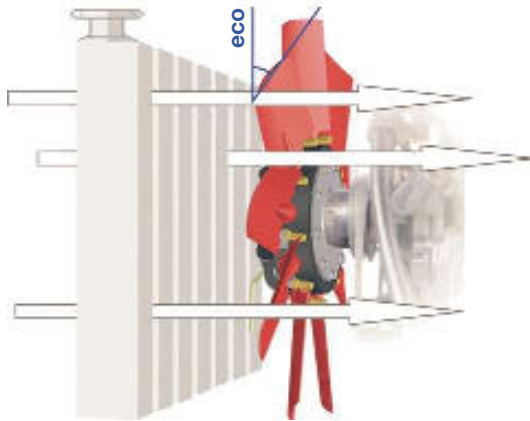
CLEANFIX uses thermal actuators for the adjustment of fan blade angles. These wax driven devices have proven reliability.

In a defined temperature range, the wax expands and moves a small piston, which adjusts the angle of the blades from a low to a steep angle. Since all the blades are connected to a common piston, the synchronization of their movement is ensured. **This gives our system the highest possible level of reliability.**

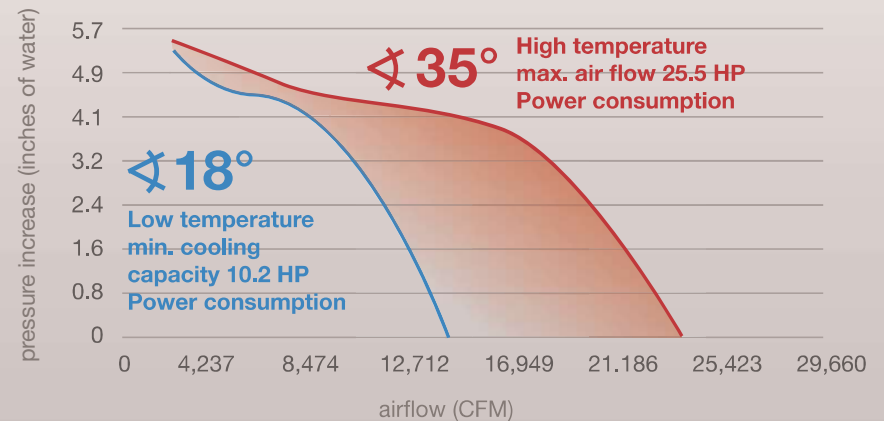
**Thermal actuator with elastomer insert**



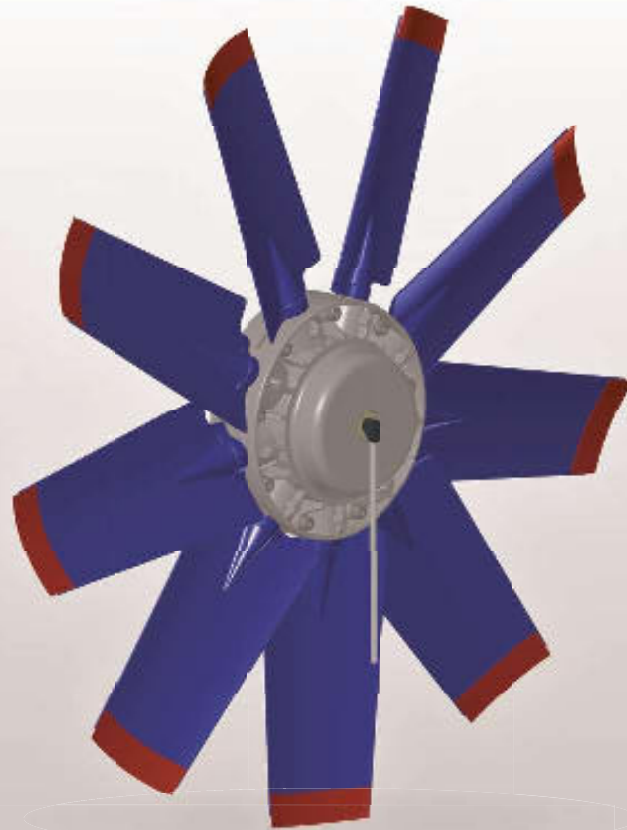
## Efficiency optimized = less power consumption



The power consumption of a fan depends on the angle of its blades. As CLEANFIX VP automatically adjusts its blades depending on the cooling requirements, it automatically regulates its power consumption. By using a low blade angle, savings of up to 60% in horse power consumption is possible.



# FULL ENGINE ELECTRONIC INTEGRATION:





# CLEANFIX PULSTRONIC.

The CLEANFIX Pulstronic can vary the blade angle of the fan and adjust performance in accordance with the cooling requirements demanded by the engine electronics.

Thus the most energy-efficient fan power is achieved in every situation – which saves up to 80% of fan power consumption.

# MANUFACTURERS HAVE CONFIDENCE IN CLEANFIX ...

CLEANFIX represents innovation in its purest form. This is confirmed by well-known manufacturers that incorporate CLEANFIX fans worldwide at the factory, either as a factory option or standard installation.

**MERCEDES BENZ**

**CASE  
AGRICULTURE**

**CATERPILLAR**

**KOMATSU**

**BOMAG  
FAYAT GROUP**

**CLAAS**

**NEW HOLLAND**

**MANITOU**

# A RECOGNIZED LEADER OF INNOVATION.

In acknowledgement of its notable strides in innovation, CLEANFIX received the distinguished **Agritechnica Gold Medal in 1999** and the **Silver Medal in 2009\***.

CLEANFIX continues to pursue the limits of technology to provide unparalleled cooling and cleaning solutions.



\*CLEANFIX is the only company to receive the DLG Gold or Silver medals for vehicle cooling fan innovations at Agritechnica.

# THE BEST IDEA: **TALK TO US**

Not only innovative products but also open-mindedness and customer satisfaction are part of the CLEANFIX concept. Let us convince you.

***WWW.CLEANFIX.ORG***



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