



# Global Floorcare & Specialty Motors Product Overview



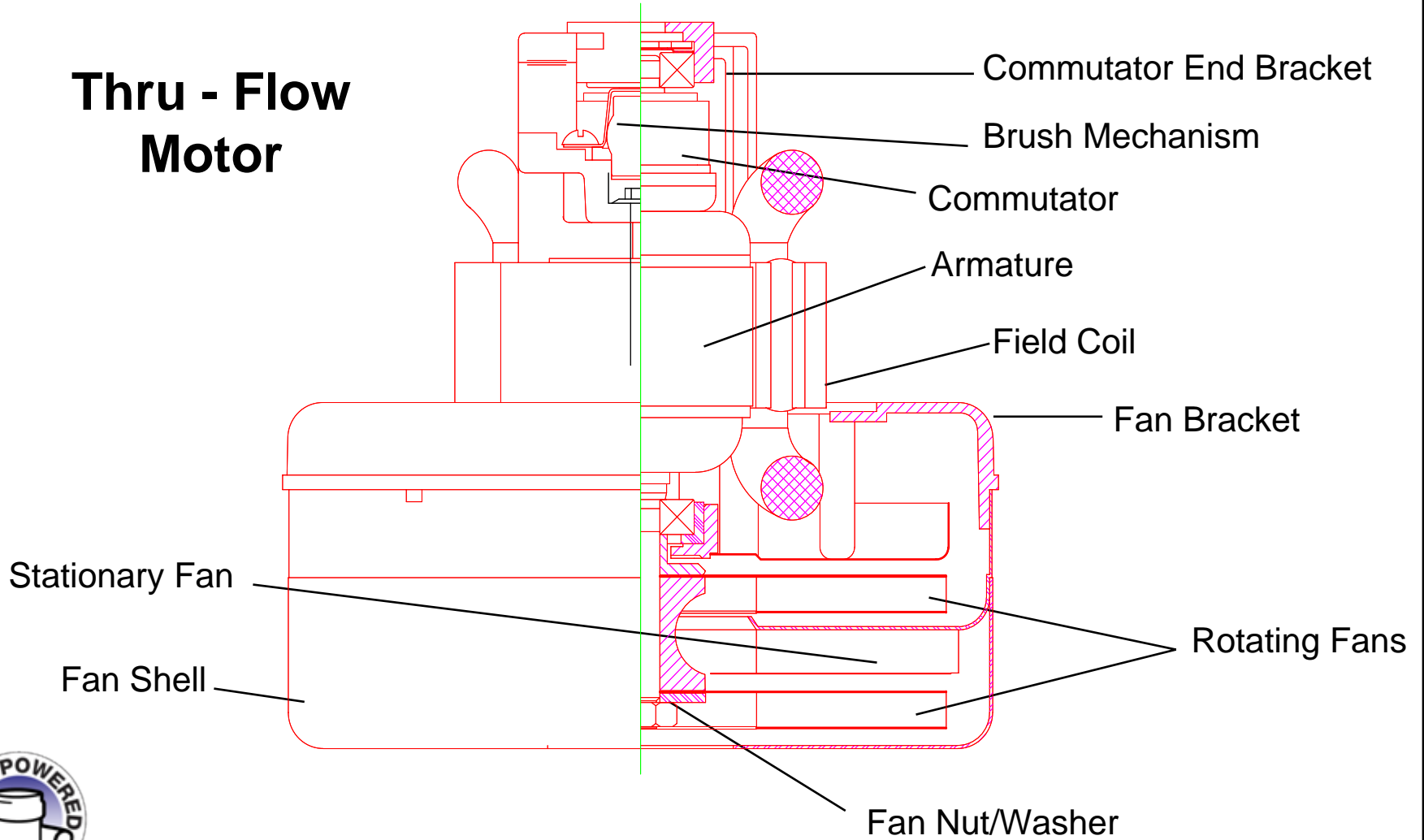


## Thru - Flow Vacuum Motors



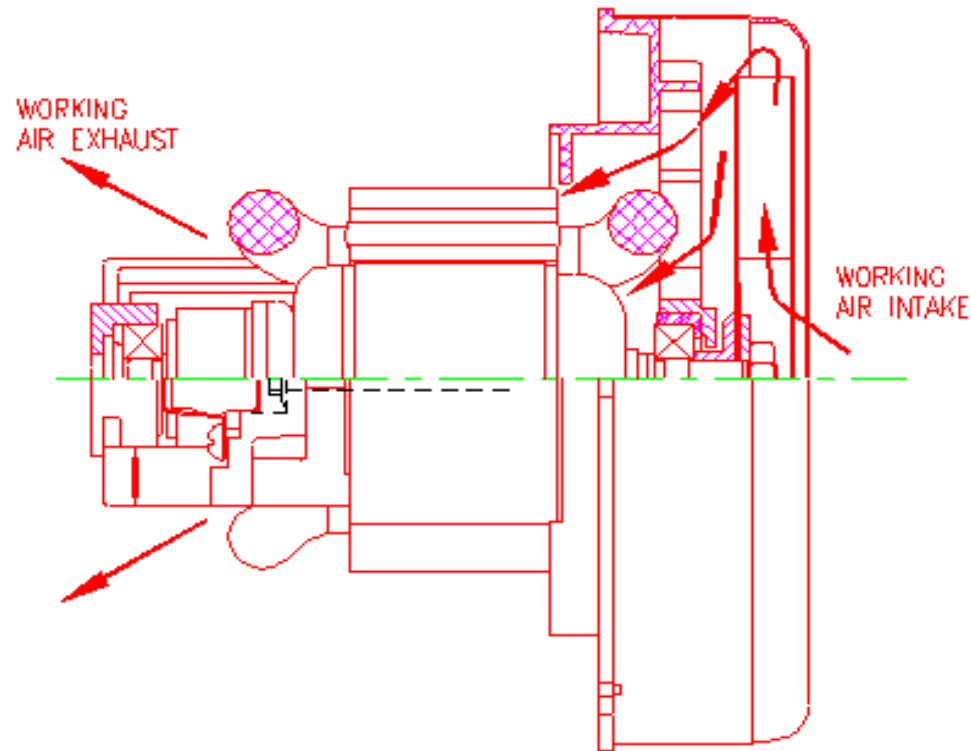


# Thru - Flow Motor



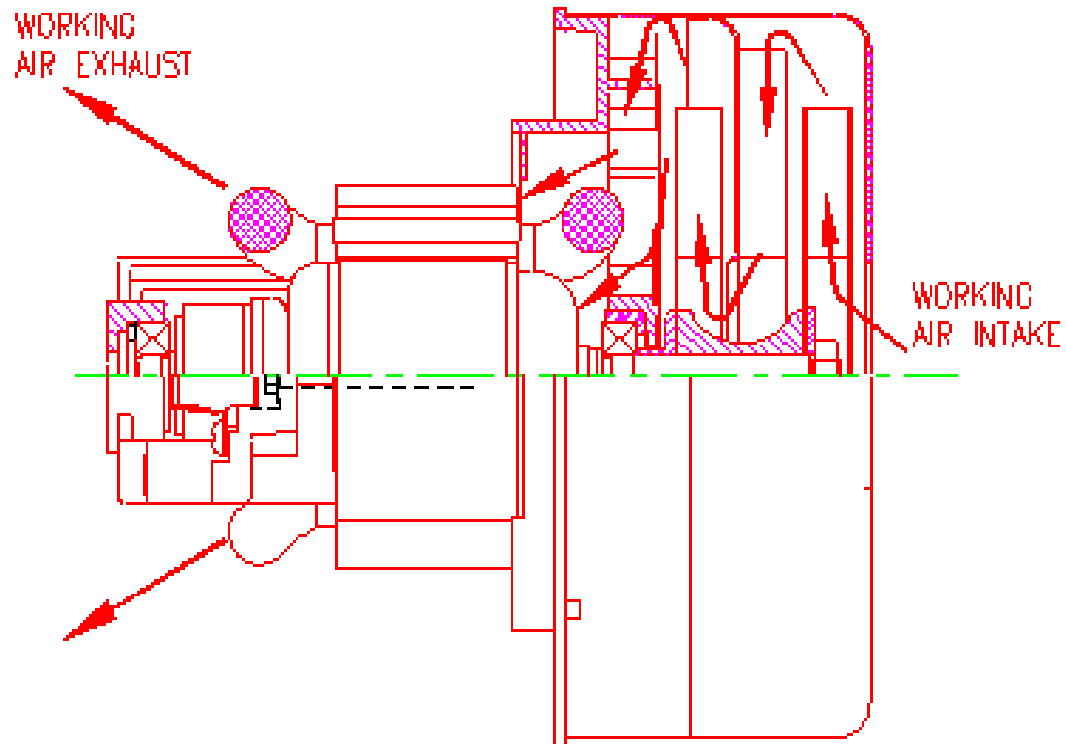


## Single Stage Thru-Flow Vacuum Motors





## Two Stage Thru-Flow Vacuum Motors







## 5.7 inch Bypass Vacuum Motors



**2 Stage Peripheral**



**3 Stage Peripheral**

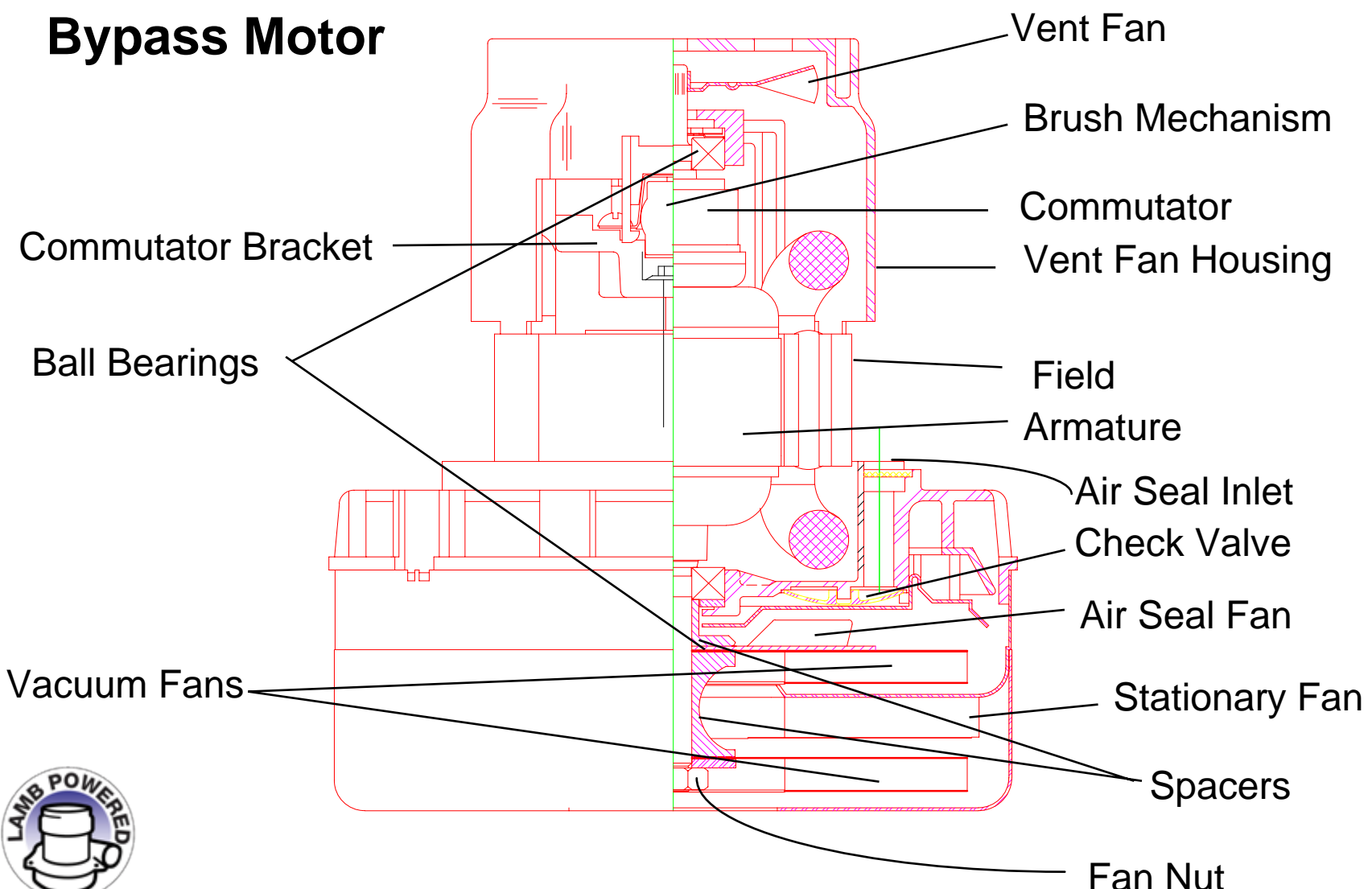


**2 Stage Tangential**



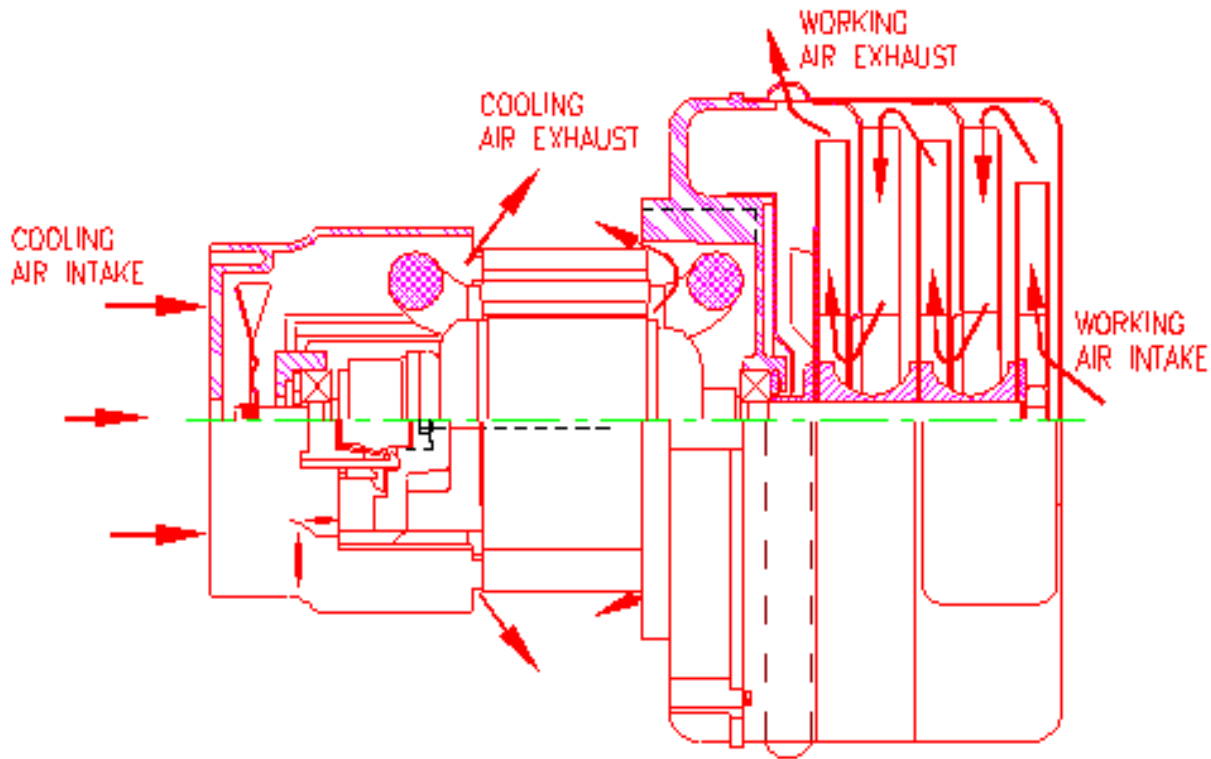


# Bypass Motor





# Three Stage Bypass Vacuum Motors







## 7.2-inch Bypass Vacuum Motors





## 7.5 inch Industrial Grade Motors



**3 Stage Peripheral**



**Hazardous Duty**





# Lamb's “Air Seal” Bearing Protection





## Lamb's "Air - Seal" Protection Features

**"Holely" Fan Feature** All ByPass motors have inner fans with (2) two 3/16 inch holes.

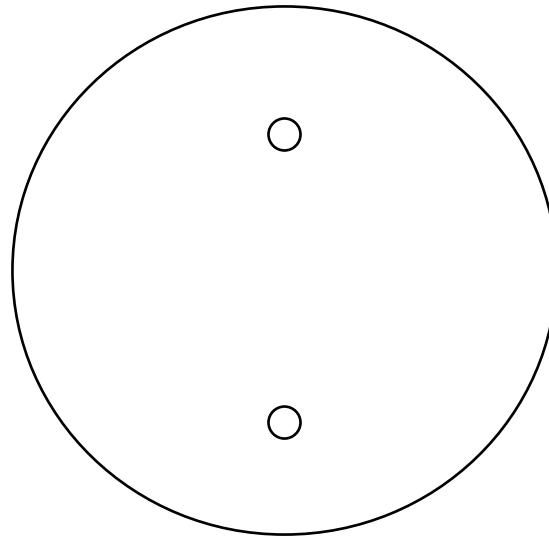
**"Original A/S" Feature** Original Air Seal protection is designated by "-13" model suffix.

**"Enhanced A/S" Feature"** New "Enhanced Air Seal" system is designated by "-18" model suffix and includes original air-seal features and new "GORTEx" washer assembled under FE ball bearing in bore.





# “Holely” Fan Bearing Protection All ByPass



Basic Moisture Protection  
Creates Negative Pressure Around  
Bearing





## Air – Seal Bearing Protection Operation

Air enters through a hole in the fan bracket, drawn in by a separate fan. This creates a negative pressure around the lower (fan end) bearing of the motor and keeps moisture and foam away from the bearing during operation.

The air enters behind a baffle and as it exits, the velocity and pressure in that area keeps moisture away from the bearing.

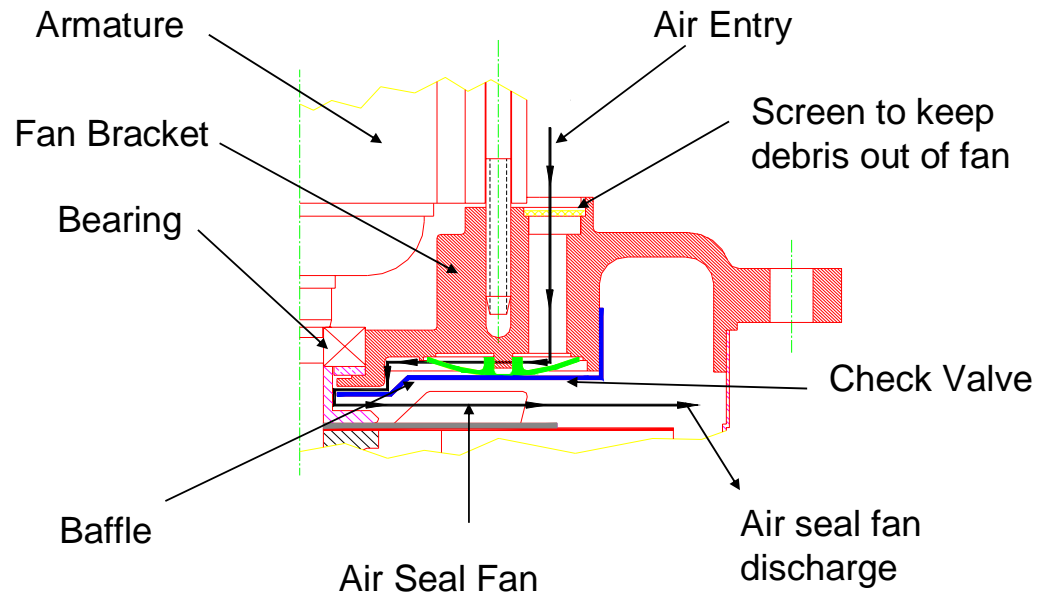
A rubber check valve keeps moisture from getting back into the motor in static conditions. This system has been very effective in extending bearing life in wet applications.





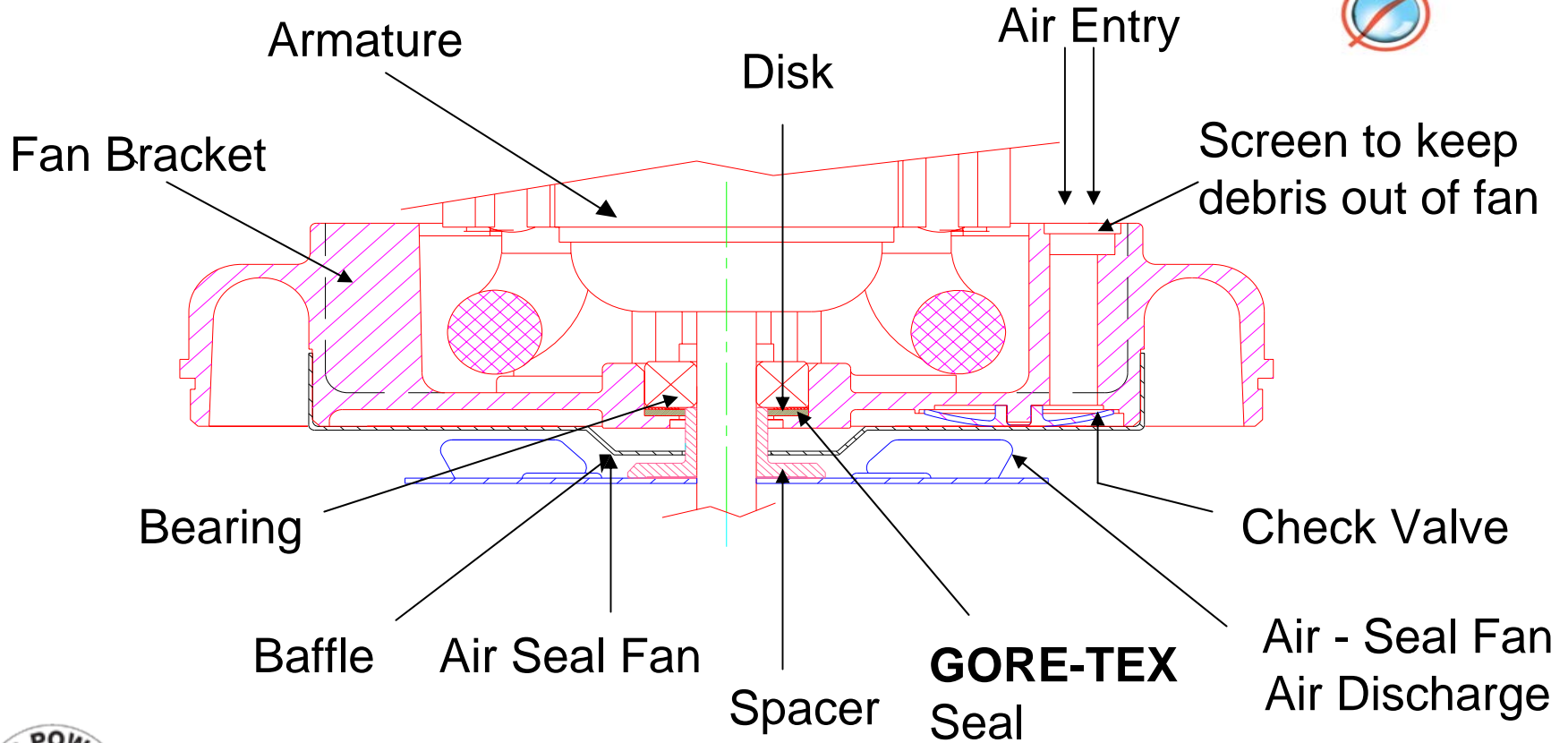


## “Original” Air Seal Bearing Protection -13





# Enhanced Air Seal Bearing Static Seal - 18





“Holely” Fan Feature - Good

“Original A/S” Feature - Better

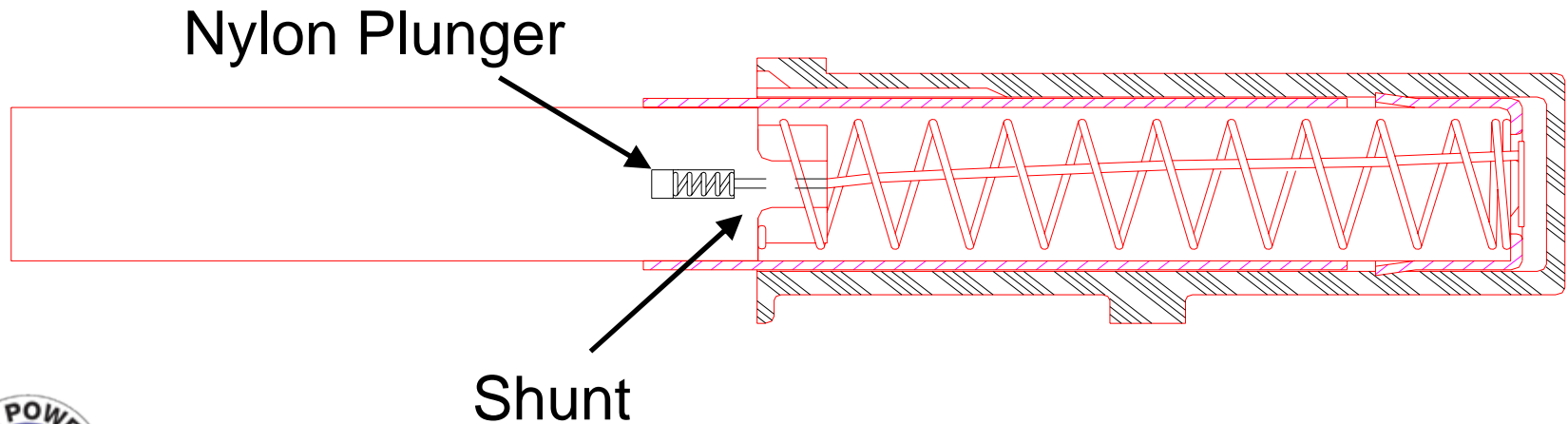
“Enhanced A/S” Feature” – Best





## Interrupter Brush Mechanism

This brush has an auto-stop device that stops the motor before damage is done to the commutator. There is a nylon plunger and spring in front of the shunt that breaks the electrical connection before the shunt contacts the commutator.





# ACUSTEK

**PLUS**







# ACUSTEK Low Noise Bypass Components

**Ventilation  
Cap Air  
Inlet**



**Diffuser**



**Fan Bracket**



**Baffle**



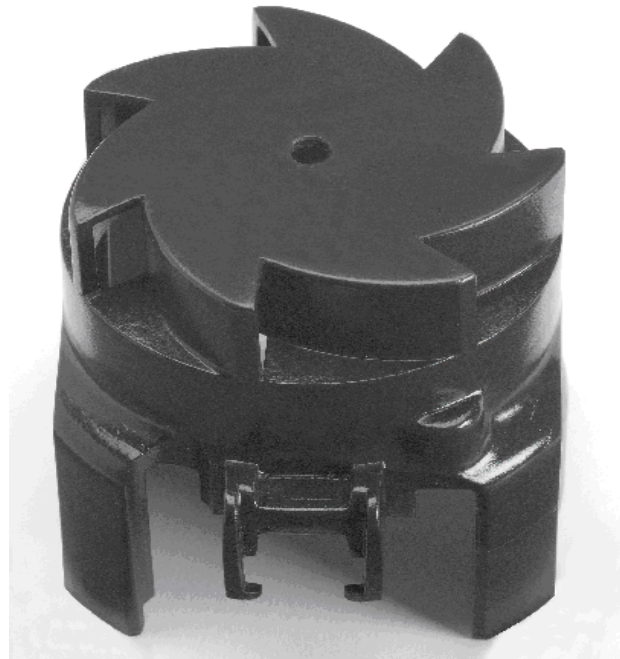




# Low Noise Ventilation Fan System

**ACUSTEK**  
**PLUS** 

Redesigned  
ventilation  
fan cover





## What's New

Brushless SR Product – INFINITEK  
Separate Presentation

New Advantek Com Down Design  
Originally used in Household Applications  
Tapered Fans – Constant Air Velocity  
Nested Provides Further Efficiency & Saves Space

New High Efficiency Smaller Laminations  
Allows Longer Brush w/Higher Grade 2k Hrs

