



An Easy Solution to High Energy Bills For Fan Powered Variable Air Volume Terminal Box Permanent Magnet Variable Speed Systems

THE MOST ENERGY EFFICIENT MOTOR IN THE INDUSTRY



The FridgeWize fan powered variable air volume terminal box solution integrates the efficiency of a permanent magnet motor into the VAV box system. The FridgeWize VAV system also allows for variable speed programmability either by matching a set CFM or integrating with a building automation system. The retrofit is an easy, drop-in replacement into existing terminal boxes. Savings have been shown to be up to 90% through motor efficiency as well as balancing the airflow.

SPECIFICATIONS:

- Fully Variable brushless permanent magnet AC motor
- Ratings up to 1HP direct drive application
- 120V, 240V, 277V, 1 Phase voltage configuration
- Able to match existing airflow by terminal box
- Ability to be integrated into existing building automation systems
- NEMA 48 frame, UL and cUL recognized component
- Near constant efficiency across the speed range unlike existing induction motor systems
- Motor designed to OEM specifications for reliability

BENEFITS:

- Motor efficiency up to 80%
- More efficient as compared to a stand-alone PSC motor and a PSC motor paired with a SCR control
- Easy installation and startup, drop-in replacement
- Full variable speed control allows for easy CFM control that can be changed by a simple turn of a potentiometer
- Utilize the same motor used in OEM equipment
- Constant torque program to hold RPM more reliably
- Inventory reduction opportunity by utilizing our two standard designs
- 5th Generation ECM motor technology

FEATURES:

- Permanent Magnet AC Motor with integrated electronic control
- Soft speed ramp up to promote system longevity
- 6kV surge protection against voltage spikes
- Drop in replacement for existing VAV box units
- Lower motor operating temperatures to promote longer life of the motor insulation and bearing systems

