



# Evergreen® VS

VARIABLE SPEED REPLACEMENT MOTORS

# What if...

you could replace MILLIONS of OEM variable speed motors with just 5 parts on your truck?



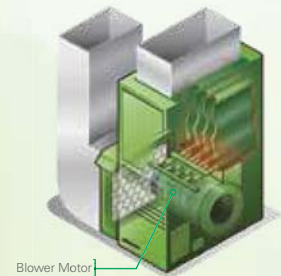
## Evergreen® VS

The Evergreen® VS motor and Evergreen® VS user interface are designed to replace Genteq® constant airflow (variable speed) ECM indoor blower motors.

The Evergreen VS product line is designed specifically to replace Genteq models 2.3, Eon® and 3.0 motors. These motors represent the largest volume of variable speed motors used to date in HVAC OEM indoor blower motor applications.



FURNACE AIR HANDLERS  
INCLUDES PACKAGE SYSTEMS



## ECM MADE EASY™

### Better for You

- Pre-programmed
- Plug-n-play
- Dual voltage
- Dual rotation
- Truck stock

### Better for Your Customers

- Two year warranty\*
- Same day completion
- Built by same manufacturer as original motor
- Maintains system performance and efficiency



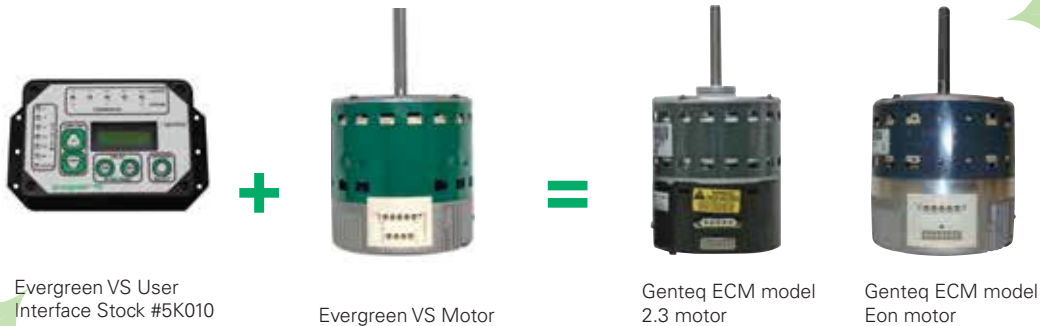
\* This warranty shall expire twenty-four (24) months from the first use of the Product or thirty (30) months from date of shipment of the Product, whichever occurs first. See Regal Standard Terms and Conditions of Sale, available at [www.regalbeloit.com](http://www.regalbeloit.com).

# Evergreen® VS

## Genteq® model 2.3 and Eon® motor replacement (16-pin)

The Evergreen® VS motor and Evergreen® VS user interface (5K010) are used together to replace the Genteq model 2.3 or Eon® motor.

- Match the horsepower (HP) and voltage (VAC) ratings of the new Evergreen® VS motor to the motor being replaced. It is not necessary for the RPM or the amperage (FLA) to match.
- The Evergreen® VS user interface is compatible with all Evergreen® VS motors.
- All wires and harnesses provided.



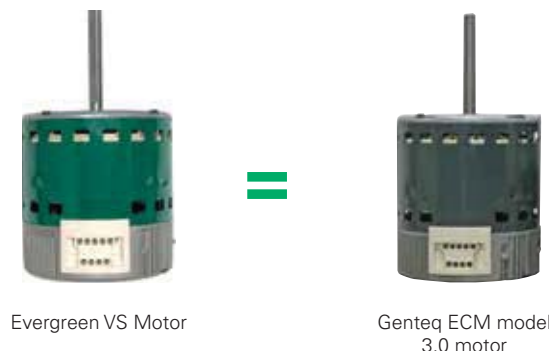
## 16-PIN SOLUTION

# Evergreen® VS

## Genteq® model 3.0 motor replacement (4-pin)

The Evergreen® VS motor is a direct replacement for the Genteq® model 3.0 motor.

- Match the horsepower (HP) and voltage (VAC) ratings of the new Evergreen® VS motor to the motor being replaced. It is not necessary for the RPM or the amperage (FLA) to match.
- Plug-n-play (Connect OEM plugs...DONE)



## 4-PIN SOLUTION

# EVERGREEN® VS MOTORS AND USER INTERFACE

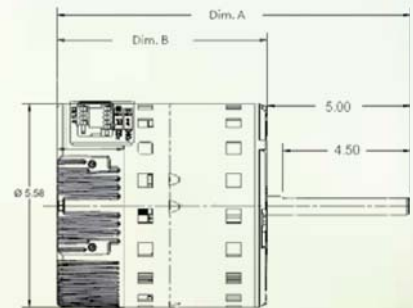
## APPLICATIONS

The Evergreen® VS motor and/or Evergreen® VS user interface is designed for use in the following types of HVAC systems:

- Furnace, air handler and package units
- Fossil fuel, electric strip heat, A/C, heat pump and geothermal units
- When replacing 2.3 or Eon® motors, Evergreen VS motors can only be used in single stage or two stage HVAC systems
- When replacing 3.0 motors, Evergreen VS motors can be used in single stage, multi-stage, modulating and communicating HVAC systems

## MOTOR SPECIFICATIONS

- Bearing: permanently lubricated ball bearing
- Ambient Ratings:
  - Powered, not operating: -20° to 65°C (non-icing conditions)
  - Operating (1/3, 1/2, and 3/4 HP): -20° to 55°C (non-icing conditions)
  - Operating (1 HP): -20° to 45°C (non-icing conditions)
- Enclosure: open air over (OAO), NEMA® 48-Frame (5.6" diameter)
- Shaft: single, ½" diameter, 5" length, 4.5" single flat
- Mounting: horizontal or vertical shaft-down (VSD), belly band
- UL and CSA recognized component
- Encapsulated electronics
- Electronic overload protection
- 6kV surge protection



EVERGREEN VS MOTORS								
STOCK #	HP	VOLTS	FLA	ROTATION	RPM	FRAME	DIM A	DIM B
6503V	1/3	120/240	5.0/2.8	CCW/CW	1050	NEMA 48	10.71"	5.71"
6505V	1/2	120/240	7.7/4.3	CCW/CW	1050	NEMA 48	11.21"	6.21"
6507V	3/4	120/240	10.1/6.1	CCW/CW	1050	NEMA 48	11.96"	6.96"
6510V	1	120/240	12.8/7.4	CCW/CW	1050	NEMA 48	12.71"	7.71"

## USER INTERFACE SPECIFICATIONS

- Dimensions: 5.5" x 3.35" x 1.25"
- Voltage Rating:
  - Thermostat inputs are rated for 18-30 VAC
- Ambient Ratings:
  - Operating Temp 0°C to +55°C (32°F to 122°F)
  - Storage Temp -20°C to 70°C (-4°F to 158°F)
- Lead Lengths:
  - Thermostat leads – 36"
  - Motor harness – 36"

EVERGREEN VS USER INTERFACE
STOCK # 5K010










# WHY WOULD YOU TRUST YOUR REPUTATION WITH ANYONE ELSE?

- Regal is the segment leader with the design and production of Genteq® OEM variable speed motors.
- Genteq® OEM variable speed motors have been used in residential HVAC systems for over 30 years.\*
- Regal's Genteq 16-pin variable speed motor design is the first of its kind to have been produced and introduced to the markets.\*

\* This period includes time during which this line of products bore different brands.



1987-1992	1992-1998	1998-2013	2013-Present	2007-Present
 <p><b>1.0 motor</b> First variable speed motor used in OEM indoor blower motor applications</p>	 <p><b>2.0 motor</b> New motor designed to replace model 1.0</p>	 <p><b>Genteq® 2.3 motor**</b> Longest running variable speed ECM motor used in OEM equipment</p>	 <p><b>Genteq® Eon® motor</b> Drop-in replacement motor for the original ECM 2.3 motor</p>	 <p><b>Genteq® 3.0 motor</b> Variable speed ECM motor with Digital Serial Communication (DSI)</p>
<p><i>"Industry leading contractors agree that consumers with HVAC systems older than 20 years are better served by offering a complete system replacement."</i></p> <p><b>Justin - JF Miller</b> Fort Wayne, IN</p>		<p><b>Compatible with Evergreen® VS Motor (16-Pin Solution)</b></p> 		<p><b>Compatible with Evergreen® VS Motor (4-Pin Solution)</b></p> 

\*\* This period includes time during which this product bore a different brand.

For more information on Evergreen® VS motors and Evergreen® VS user interface, scan this code with your smart phone or go to [www.EvergreenVS-motors.com](http://www.EvergreenVS-motors.com).



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**APPLICATION CONSIDERATIONS**

The proper selection and application of products and components, including the related area of product safety, is the responsibility of the customer. Operating and performance requirements and potential associated issues will vary appreciably depending upon the use and application of such products and components. The scope of the technical and application information included in this publication is necessarily limited. Unusual operating environments and conditions, lubrication requirements, loading supports, and other factors can materially affect the application and operating results of the products and components and the customer should carefully review its requirements. Any technical advice or review furnished by Regal Beloit America, Inc. and/or its affiliates ("Regal") with respect to the use of products and components is given in good faith and without charge, and Regal assumes no obligation or liability for the advice given, or results obtained, all such advice and review being given and accepted at customer's risk.

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