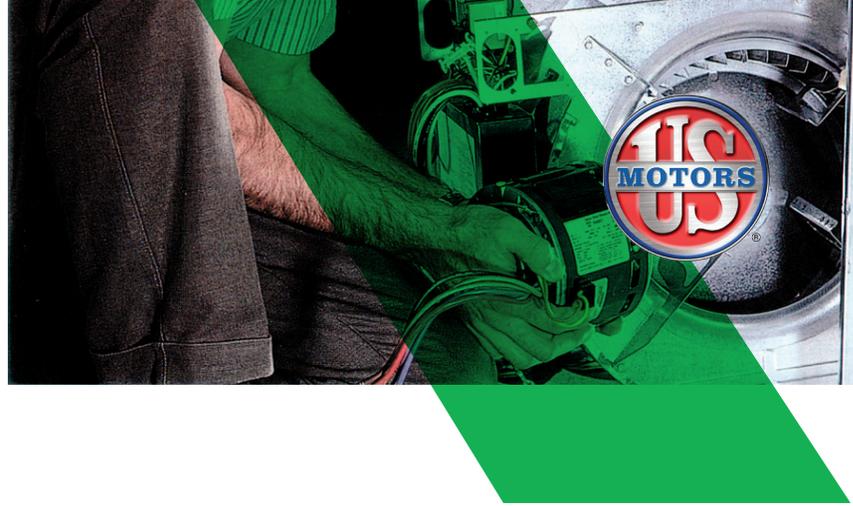


# ECOTECH® Line Voltage EC Motor

High Efficiency EM designed as a drop-in upgrade for PSC motors



- Up to 85% efficient at full load - Compared to 60-65% efficiency for traditional PSC blower motors
- ECM efficiency with minimal effort - Unique design connects to existing systems without modification to wiring or controls
- Retrofits into existing equipment - Will install into almost any direct drive blower application that uses a PSC motor
- Upgrade to ECM technology without redesigning existing systems



## Product Overview

Upgrade to the performance and efficiency of an EC motor without redesigning systems! The ECOTECH® Line Voltage EC Motor provides benefits of ECM technology as a "drop-in" for most PSC-powered blowers. Five factory programmed torque or speed settings are controlled by line voltage speed taps allowing connection directly to existing controls and switches, simply and easily. The ECOTECH® EC motor is the simplest path to advanced technology in HVAC systems.

## Key Features and Benefits

- Connects directly to conventional switches, contactors or system controls
- Designed to easily integrate into almost any direct drive blower application
- Constant torque motor with 5 discrete speeds
- Reversible rotation and dual voltage
- Three efficiency tiers offered: Optimized, Standard Efficiency and High Efficiency
- Slow ramp up for quiet starts and efficient circulation speed

## Product Specifications

**Horsepower:** 1/3, 1/2, 3/4, 1 HP

**Voltage:** 1Ø, 115/208 – 230V

**Speeds:** 600 - 1800 RPM

**Inputs:** Five High Voltage Speed Taps

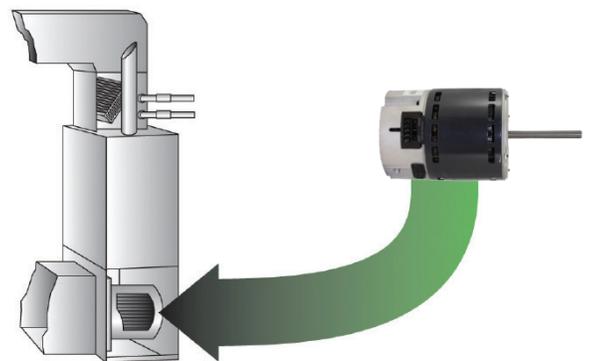
**Operation Modes:** Constant Torque, Constant Speed

**Frame:** NEMA®† 48

**Enclosure:** Open Air Over (OAO)

**Efficiency:** Up to 85%

**Mounting:** Belly-band, Stud mount, and Remote Mount Drive optional



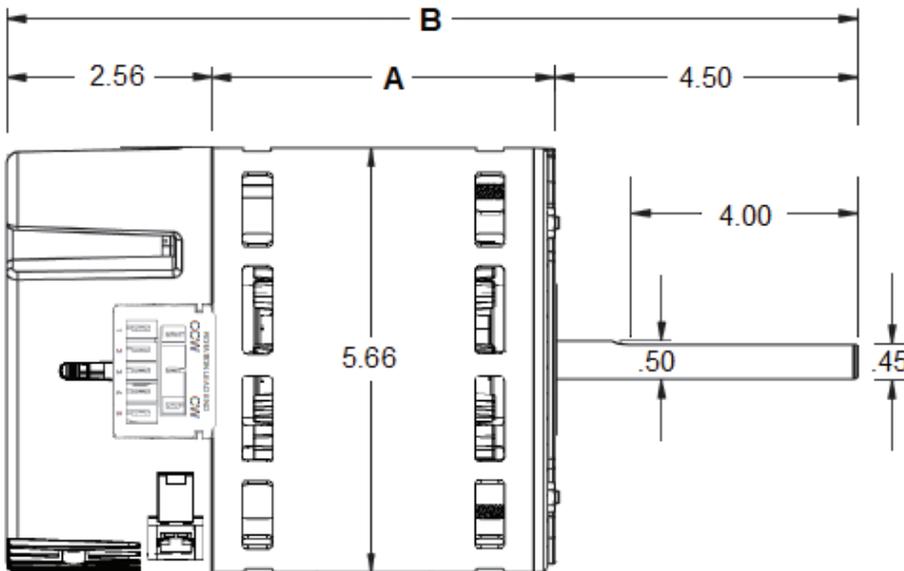
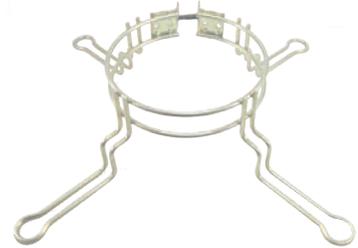
## Simple installation

The ECOTECH® motor provides an easy-to-drop-in solution for a wide variety of applications.

## ECOTECH® Accessories

Nidec offers a wide range of mounting options to make integration of the Ecotech EC motor even easier.

Catalog Number	Diameter	Frame	Mount	Number of Legs
17	5.6"	48 Fr	10" B.C. Blower Mount	3
23	5.6"	48 Fr	11" B.C. Blower Mount	3
24	5.6"	48 Fr	15" B.C. Blower Mount	4
29	5.6"	48 Fr	16" B.C. Blower Mount	4
39	5.6"	48 Fr	10" B.C. Flex Mount	4 Flex
44	5.6"	48 Fr	10" B.C. Flex Mount	3 Flex



HP	Dim. A	Dim. B
1/3	3.66	10.72
	4.04*	11.10*
1/2	4.04	11.10
3/4	4.41	11.47
1	4.79	11.85