



ECo-Motor™

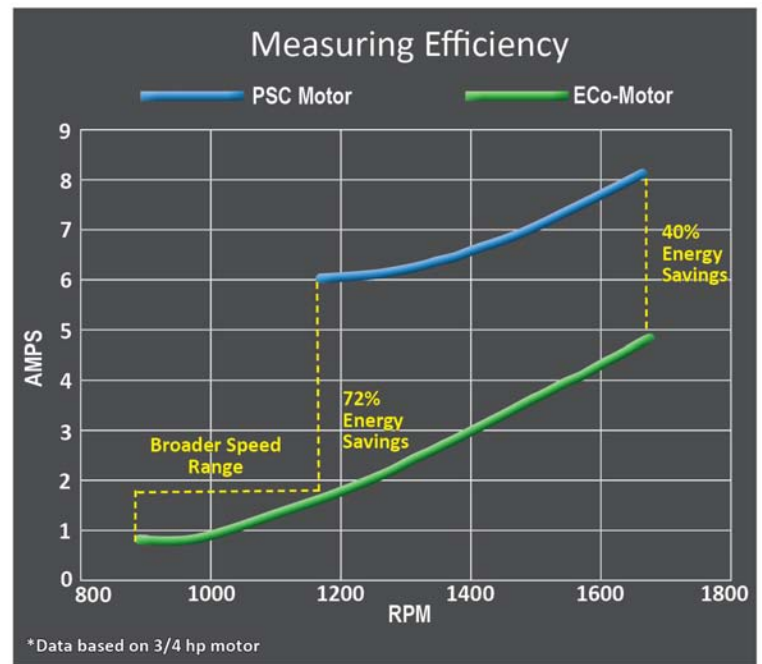
Efficient | Dependable | Variable

POWERED AIRE harnessed the power of electrically commutated (EC) motor technology by creating the ECo-Motor. Designed specifically for air curtain applications, the ECo-Motor produces lightning fast startup time, significant energy savings, and expansive variable speed control. By combining green technology with an energy saving product, Powered Aire is changing the way the air movement industry designs, specifies, and perceives open doors.

The Future in Air Curtain Technology

Bringing EC motor technology to the air curtain industry was no easy task. The main issue being lag-time in the startup process. Traditional EC motors clock in between 5-7 seconds between activation and effective operating speed. For air curtain applications where fans are interlocked with the opening of a door and the startup time determines effectiveness, this was simply unacceptable. That is until Powered Aire developed the ECo-Motor, which effectively activates **5-7 times faster** than a traditional ECM and twice as fast as a comparable PSC motor. The ECo-Motor offers several other major advantages over PSC motors including:

- ✓ Wider-Ranging Variable Speed Control
- ✓ Runs Cooler, Lasts Longer
- ✓ 40-72% Energy Savings



NOTE: Motors are available in 120v. If supply voltage is different than this, either a separate 120v line would need to be run to the air curtain or a transformer could be supplied.

VOLTAGE	120
HZ	50/60
HP	3/4 HP
RPM	1650
Nameplate AMPS per MOTOR *	11.1
MOTOR TYPE	ODP (Open Drip Proof)
SPEED CONTROL	Optional Variable Speed Dial (Unit or Remote Mounted)

* Reflective of higher AMP draw during startup; AMPS will drop significantly after startup.

SAMPLE SPECIFICATION

Motor(s) shall be electrically commutated (EC) motor(s) specifically designed for air curtain applications. Time between motor activation and maximum speed shall be 1 second or less. Motor(s) shall be permanently lubricated with dual extended shafts and heavy duty ball bearings. Motor speed shall be controllable down to 50% of maximum speed (2:1 turn-down ratio). Motor(s) shall be a minimum of 80% efficient at all speeds. *Permanent Split Capacitor (PSC) Motors are not acceptable.



109 Mortensen Rd. | Greenville, PA 16125
Phone: 888-321-2473 | www.poweredaire.com

