

# imPress

## IMPRESSIVE ALL ROUND AXIAL FLUX BLDC MOTOR

The imPress™ motor is the latest generation axial flux brushless DC motor offered by Fasco. Designed for direct drive blower and fan applications it is ideally suited for markets including gas heaters, condenser motors, evaporative air conditioning and other air movement applications.

The imPress™ technology has its origins in the motor developed for use in the Australian solar car "Desert Rose" from Charles Darwin University. Included among several awards was the prestigious General Motors award for Technical Innovation won in the World Solar Challenge. The axial flux motor technology is also sold by Fasco in the water pumping industry.

imPress provides higher efficiency, lower operating costs, noise and CO<sub>2</sub> emissions in a smaller, more compact package. With advanced features such as airflow control the motor can provide improved indoor air quality, energy savings, reduced noise and comfort for the end user.

### SPECIFICATIONS

- ❑ Axial flux, NdFeB, brushless DC motor
- ❑ 120/240VAC single-phase input, 50/60Hz
- ❑ 1/2hp @ 1050/1400rpm
- ❑ Rated efficiency ~82%, peak efficiency ~84%
- ❑ Operating speed range of 200-1500 rpm
- ❑ Communication input options include low voltage AC/DC taps or fully variable PWM
- ❑ NEMA 48-frame
- ❑ Sealed or vented
- ❑ Motor length 116mm including electronics

//higher  
performance//  
compact  
design //low  
weight//wide  
temp



### FEATURES

- ❑ First axial flux variable speed BLDC motor available for direct-drive blower applications
- ❑ Compact length
- ❑ Slow ramp up/down resulting in less noise
- ❑ High efficiency operation throughout speed range
- ❑ Constant airflow or constant torque
- ❑ Programmed/adjustable variable airflow or torque
- ❑ Programmable off & on delay/wide ramping range
- ❑ ECM Toolbox™ based programming software

### BENEFITS

- ❑ Running cost savings up to \$105 p.a. over conventional induction motors
- ❑ Low noise across wide speed range eliminating triac and induction motor noise
- ❑ Customised home comfort profiles depending on geographic climate
- ❑ Low speed operation enables efficient dehumidification and constant fan mode
- ❑ Programmable – Using the latest version of ECM Toolbox™, OEM customers can easily create motor programs for different markets and regions

Please contact Fasco for all assumptions in calculating savings.

### TARGETED APPLICATIONS

- ❑ Domestic and light commercial HVAC applications
- ❑ Evaporative air conditioners
- ❑ Condenser applications
- ❑ Designed for direct-drive blower and fan applications

## FASCO

Regal Air Systems  
27 Wedgewood Road,  
Hallam, VIC 3803  
AUSTRALIA  
Tel: +61 03 8786 1700  
Fax: +61 03 8786 1750

[www.fasco.com](http://www.fasco.com)

## REGAL

FASCO Motors (Thailand) Limited  
29/7-8 Bangkruey-Sainoi Road,  
Bangkrang, Muang Nonthaburi District  
Nonthaburi 11000  
THAILAND  
Tel: +61 662 447 3300  
Fax: +61 662 447 3500

[www.regalbeloit.com](http://www.regalbeloit.com)  
[www.regalaustralia.com](http://www.regalaustralia.com)