



DECSTAR  a revolution

HIGH EFFICIENCY BLOWER

PRODUCT GUIDE

REGAL®

INTRODUCTION



DEC Star™ integrates Regal's axial flux motor technology into a forward curved impeller, creating a revolutionary blower systems that maximises performance and efficiency.

UNIQUE DESIGN IMPROVES COMFORT AND EFFICIENCY

DEC Star's™ axial flux motor design removes the motor from the blower inlet, eliminating restriction and improving system efficiencies. This novel electromechanical design and integration delivers unparalleled airflow efficiency. DEC Star's™ new design configuration is truly revolutionary and will facilitate some exciting advancements.



SPECIFICATIONS

- Direct drive blower
- Forward curve
- Double inlet
- Motor range 370- 600 - 900w
- High temp plastic or steel wheels
- Air volumes up to 900 l/sec (525 static Pressure) HEB design

APPLICATIONS:

- Cooling: IC411
- Gas furnace
- Air conditioning / fan coil unit
- Clean rooms
- Biological cabinets
- General ventilation

OPTIONS

- Std & HEB housing (HEB = high static)
- 370 - 600 - 900w motor variable speed
- Customised housing (Eg Brackets & pre-punched mounting holes for ease of assembly)
- Data & Power looms available

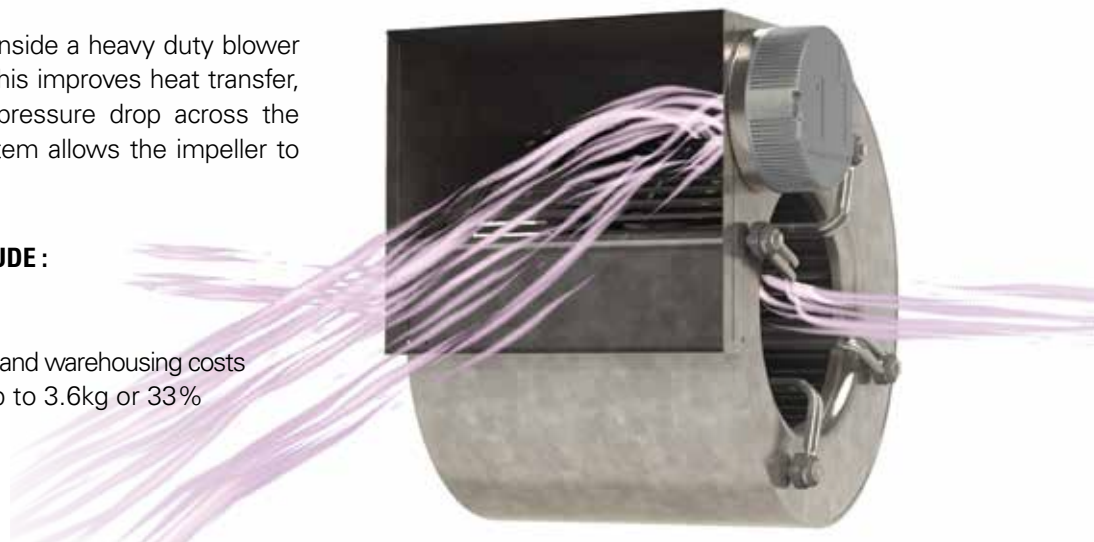
AVAILABLE SIZES:

- 241 x 181 (9 x 7)
- 241 x 203 (9 x 8)
- 270 x 203 (10 x 8)
- 270 x 270 (10 x 10)

The axial flux motor is positioned inside a heavy duty blower wheel, providing uniform airflow. This improves heat transfer, reduces hot spots and reduces pressure drop across the appliance. Its shaft-less rotor system allows the impeller to be hub-less.

BENEFITS OF THE DEC STAR™ INCLUDE :

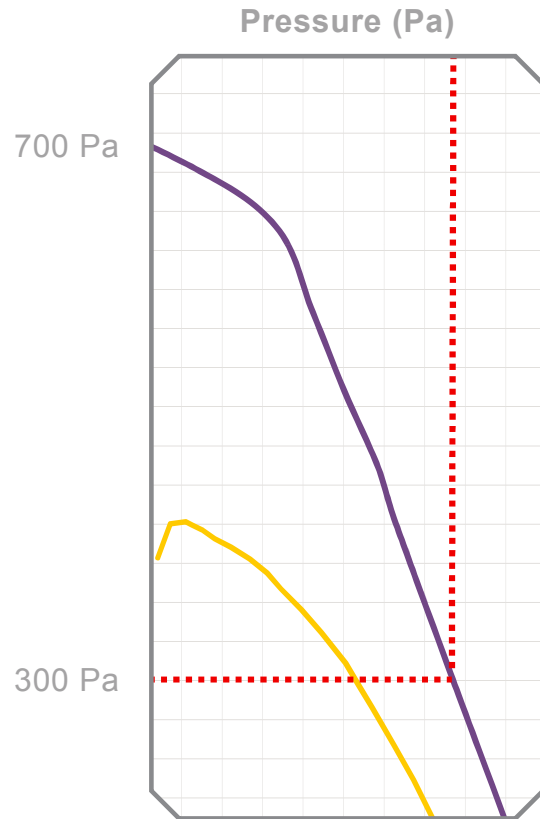
- Cooling: IC411
- Improved system efficiency
- Compact design reduces shipping and warehousing costs
- Reduced total unit weight of up to 3.6kg or 33%



DEC STAR™ VS PSC POWERED BLOWERS

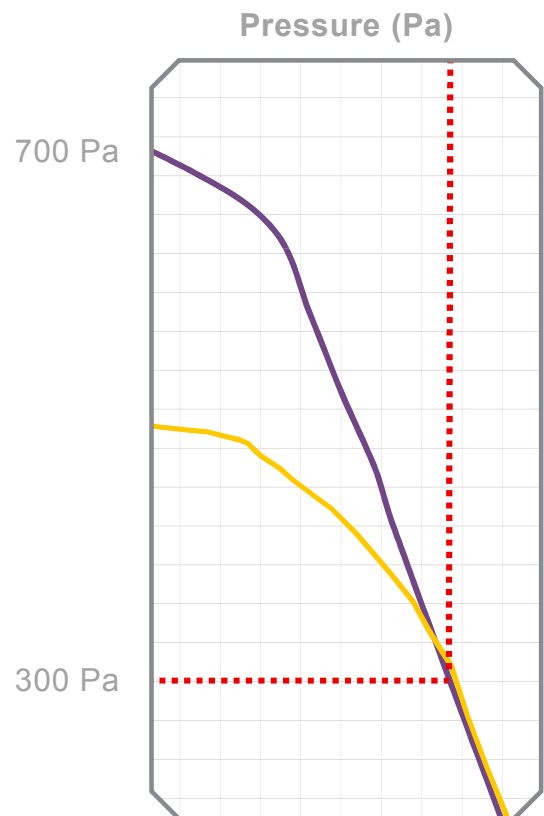
When compared to an equivalent blower fitted with a P.S.C. induction motor, DEC Star™ delivers energy savings of up to 25% whilst reducing speed by up to 20% for the equivalent operating point.

DEC Star's unique design enables the system to operate at significantly higher static pressure.



DEC STAR™ VS EC POWERED BLOWERS

DEC Star™ provides performance and efficiency benefits in excess of EC powered fans, including energy savings, reduced operating speed for the same duty and the ability to operate in systems with higher static pressures.



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APPLICATION CONSIDERATIONS

The proper selection and application air system 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 Australia Pty Ltd and its affiliates 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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The logo for Regal, featuring the word "REGAL" in a bold, sans-serif font. The letters are white and set against a dark grey, trapezoidal background that tapers to the right. A registered trademark symbol (®) is located to the upper right of the logo.