



REGENERATIVE BLOWERS

PRODUCT OVERVIEW

Single Stage



Double Stage



Triple Stage



REPUBLIC REGENERATIVE BLOWERS are available in single stage (one impeller), double stage (two impeller), or triple stage (three impeller) configurations. The impeller is directly connected to the motor shaft, providing powerful force without undue friction. The bearings are outside the compression chamber, ensuring maximum operational reliability under high differential pressure.

Advantages

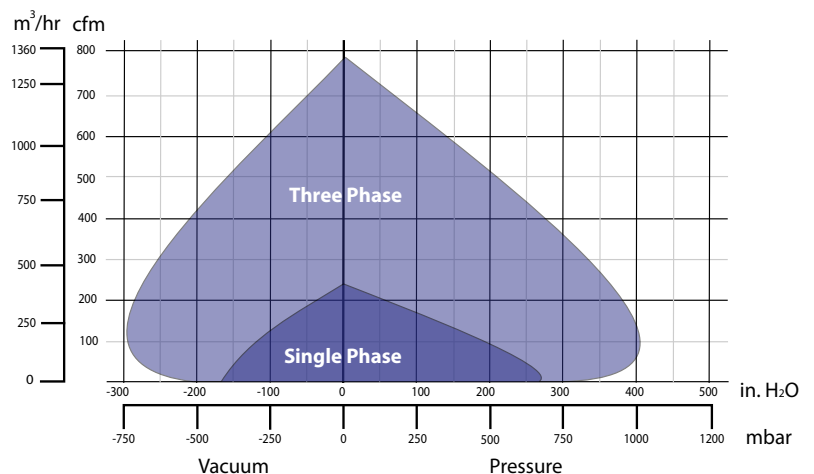
- Robust & efficient performance
- Compact & lightweight design
- Low noise level
- Integrated TEFC motors
- 50/60 Hz dual frequency
- Horizontal & vertical mounted positions
- Virtually no maintenance
- Minimal downtime

Available Options

- Pressure kits
- Vacuum kits
- Explosion-proof motors
- Direct coupled packages
- Washdown motors
- Specialty motors
- Enclosures
- Variable frequency drives
- Custom panels

Functional Performance

- Air Flow: From 50 cfm up to 776 cfm
- Pressure Capacity: From 47" H₂O to 307" H₂O
- Vacuum Capacity: From 40" H₂O up to 236" H₂O
- Motor Grade: IP 44, 54, 55, B/F Class
- Explosion-Proof Motor Grade: IP 64,65



APPLICATIONS

Printing

- Paper transfer
- Excess removal
- Mail sorting
- Punch collection

Bottling/Food

- Bottling
- Food processing
- Labeling
- Feeding

Manufacturing

- Vacuum transfer
- Stamping
- Scrap collection
- Batch processing
- Air bearing
- Furnace efficiency
- Parts processing
- Packaging

Chemical Processing

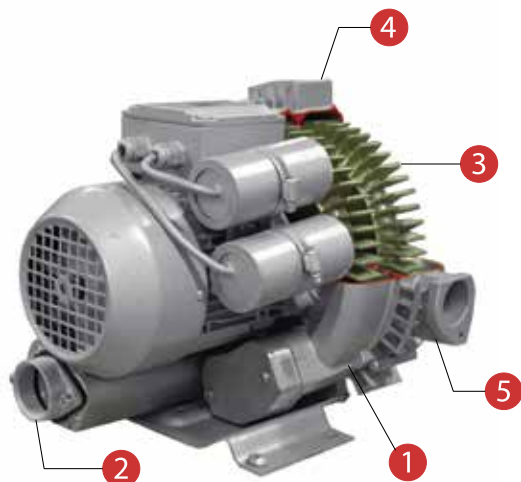
- Chemical transfer
- Pellets transfer
- Hopper processes
- Aeration

Textile

- Industrial sewing machines
- Automatic loom machines
- Excess cloth removal
- Knitting

Other

- Paper drying
- Conveying
- Dental
- Laundry
- Clean rooms
- Photography
- Spas
- Tank aeration



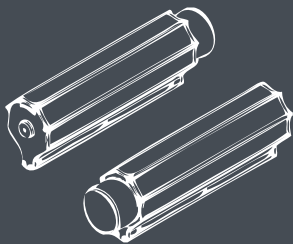
1. Side channel
2. Air inlet
3. Impeller
4. Impeller chamber
5. Exhaust outlet

Working Principle

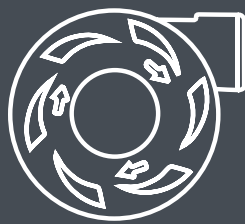
Air or gas is pulled into a side channel (1) through the air inlet (2) and is accelerated by an impeller (3) rotating inside the impeller chamber (4). The resulting pressurized air or gas is discharged through the exhaust outlet (5). This type of operation is also known as a ring blower design.



AIR KNIFE SYSTEMS



CENTRIFUGAL BLOWERS



REGENERATIVE BLOWERS



VACUUM PUMPS



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