



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**

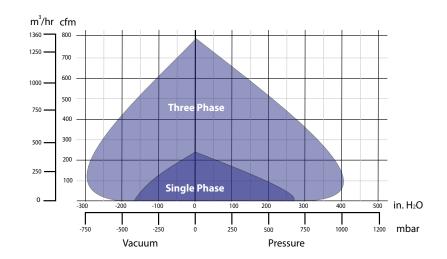
- Robust & efficient performance
- · Compact & lightweight design
- Low noise level
- Integrated TEFC motors
- 50/60 Hz dual frequency
- Horizontal & vertical mounted positions
- Virtually no maintenance
- · Minimal downtime

#### **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" H<sub>2</sub>O to 307" H<sub>2</sub>O
- Vacuum Capacity: From 40" H<sub>2</sub>O up to 236" H<sub>2</sub>O
- 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

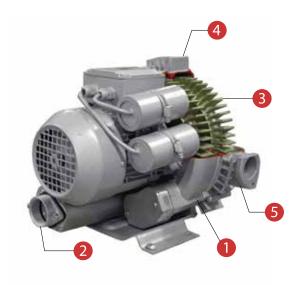
#### **Textile**

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

#### Other

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



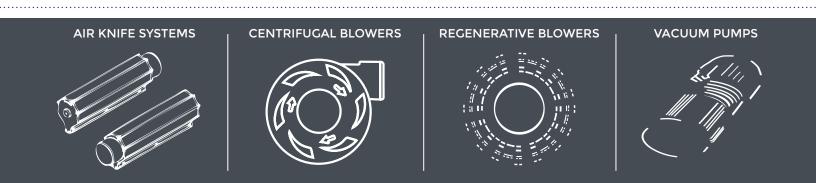


- 1. Side channel
- 2. Air inlet
- 3. Impeller
- 4. Impeller chamber
- 5. Exhaust outlet

# **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.





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