



CENTRIFUGAL BLOWERS

PRODUCT OVERVIEW



RB4002



RB2000



RB1200HC

REPUBLIC CENTRIFUGAL BLOWERS are the perfect solution for vacuum or compressed air applications. Centrifugal blowers provide dry, clean, oil-free air and require low energy consumption. Unlike compressed air systems, this series is safe to run at low pressure, and allows for increased production speeds or levels. The blower comes with ceramic hybrid bearings, 360 degree rotatable outlet discharge, easy to remove steel bearing housing assembly, and zinc plated steel motor pulley.

Advantages

- 3–75 Horsepower—
up to 25,000 rpm
- 10 Groove belt for long life
- Ceramic hybrid bearings
- PTFE shaft seal on both sides
of bearing assembly
- Rotatable discharge
- High speed balanced shaft/
impeller assemblies
- Stainless steel blower pulley,
zinc plated steel motor pulley,
and steel blower housing
- 6061 T6 aluminum impeller
- Easy to remove bearing/
impeller housing for
quick replacement
- 100% Operational performance
and vibration tested

Available Options

- Inlet and outlet flanges
- Water-cooled
- Motor options
- Chemically resistant seals
- Hard anodized assemblies
- Stainless steel construction
- Specialty coating

Accessories

- Enclosures for noise control
- Exhaust silencer
- Starter panel
- Variable frequency drive

Functional Performance

- Air Flow: From 500 cfm up to 3100 cfm
- Pressure Capacity: up to 170" H₂O
- Vacuum Capacity: up to 130" H₂O

APPLICATIONS

Beverage

- Product Drying
- Crate Cleaning and Drying

Bakery

- Excess Product Removal
- Belt Cleaning
- Dust Removal
- Pan, Tray and Board Cleaning and Drying

Food

- Drying Products
- Excess Product Removal
- Belt Cleaning
- Dust Removal
- Pan and Tray Cleaning and Drying
- Prevent Product Slippage

Chemical Processing

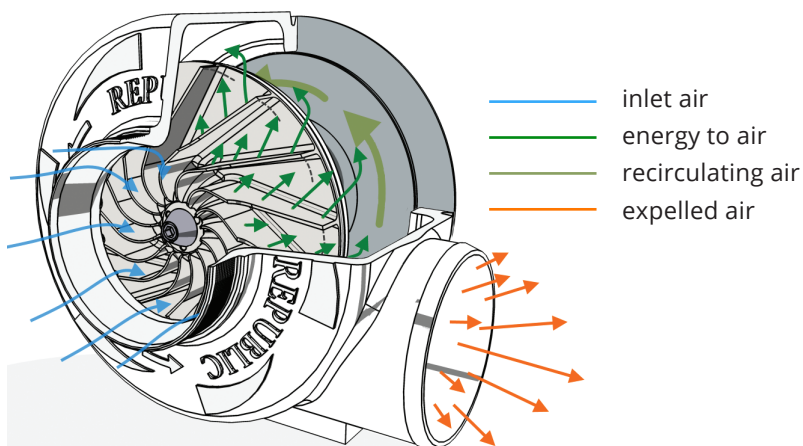
- Belt Cleaning
- Product Drying

Medical

- Product Drying
- Excess Product Removal
- Belt Cleaning
- Dust Removal
- Prevent Product Slippage

Pharmaceutical

- Drying product packaging prior to ink jet coding or labeling
- Drying of vials, syringes, sterile packs, pouches, tubes, trays, crates, and pallets
- Drying of mixing and storage tanks
- Drying under the cap or lid
- Debris removal
- Moisture removal
- Dust removal
- Conveyor belt blow-off
- Leveling coating on caplets

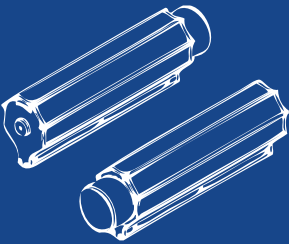


Working Principle

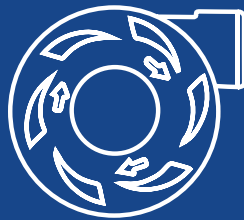
Air enters the center of a spinning impeller and is divided between the impeller's vanes. As the impeller turns, it accelerates the air outwards using centrifugal force. This high-velocity air is then diffused and slowed down in the surrounding blower housing to create pressure.



AIR KNIFE SYSTEMS



CENTRIFUGAL BLOWERS



REGENERATIVE BLOWERS



VACUUM PUMPS



5131 Cash Road, Dallas, TX 75247 | 800.847.0380 | republic-mfg.com

