

**DRY RUNNING ROTARY
CLAW VACUUM PUMPS**

PRODUCT OVERVIEW

REPUBLIC RCV DRY RUNNING ROTARY CLAW PUMPS are ideally suited for oil-free applications. Single stage, air-cooled, and direct-driven for continuous operation, the pumps utilize high-precision, machined claws that rotate synchronously without contact to generate wear-less vacuum. They are simple to install requiring minimal service and maintenance which makes these pumps some of the most reliable and efficient available.



RCV-160

Performance

- Air Flow: Up to 203 cfm
- Vacuum: Up to 28" HgV

Features & Benefits

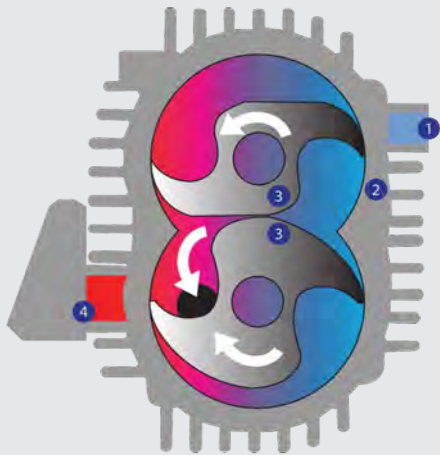
- Compact and simple design
- Ease of installation
- Oil free
- Quiet operation
- Continuous duty
- Deep vacuum capabilities

Optional Accessories

- Inlet filter
- Vacuum gauge
- Motor starter
- Control panel
- Central systems supporting 1-6 pumps



RCV-300



Working Principle

Rotary claw vacuum pumps are dry, positive displacement pumps consisting of a pumping chamber (2) and two counter-rotating, synchronized, non-contacting claws (3). The gas enters through the inlet (1) and is filtered by the inlet screen. As it proceeds into the pumping chamber (2), the precisely-dimensioned claws (3) rotate. The small gap between the claws compresses the gas such that the pressure on the discharge side is higher than the inlet. The oil-free gas finally discharges through the silencer (4).

CENTRAL SYSTEMS



Republic systems are offered in standard and custom configurations. Our systems utilize our wide range of products designed to meet your application. Systems are built in accordance to applicable standards such as: NFPA, NEMA, ASME, and UL control panels.

APPLICATIONS

Food & Non Food

- Vacuum packing
- Forming
- Blister
- Foil handling
- Carton erection
- Pick & place
- Thermoforming
- Packaging

Central Systems

- Laboratory
- Medical
- Process

Industrial

- Robotics
- Pneumatic conveying
- Degassing
- Drying
- Encapsulation
- Vacuum oil purification

Print

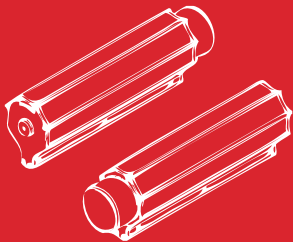
- Paper handling
- Binding
- Print press

CNC Vacuum Hold Down

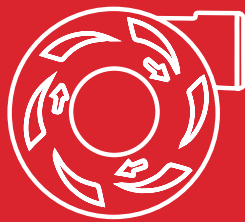
- Fixturing
- Random shape cutting



AIR KNIFE SYSTEMS



CENTRIFUGAL BLOWERS



REGENERATIVE BLOWERS



VACUUM PUMPS



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