

# Roots™ Blower



## 412 RAM-VJ

Part Number – depends on shaft config, call 816-207-0090

Repair Kit: 524573RK (Call if unit is bottom shaft)

Patented WHISPAIR™ Water Sealed Vacuum Exhausters include an inlet spray nozzle and seal water flow meter for water injection. It is designed to handle a limited quantity of liquid without damage. This permits introduction of sealing water at the blower inlet to improve operating efficiency and reduce internal temperature rise.

WHISPAIR blowers reduce noise and power loss by utilizing an exclusive wrap-around plenum and proprietary WHISPAIR jet to control pressure equalization-feeding backflow in the direction of impeller movement, thereby aiding rotation. This design results in longer bearing life, lower vibration, and reduces noise up to 5 dBA pressure or vacuum.

- Heavy-duty unit with integral-shaft ductile iron impellers with an involute profile
- Rigid one-piece casing and headplates are grey iron
- Drive end cover and end cover are aluminum
- Carburized and ground alloy steel spur timing gears
- Cylindrical roller bearings
- Piston rings reduce air leakage
- Lip type oil seals prevent lubrication from entering the air chamber.
- Splash oil lubricated gears on drive and gear ends
- Detachable steel mounting feet
- Horizontal and vertical configurations available

### Quick Specs

Maximum Recommended Sealing Water Flow Rate – Includes injected and process water (single or two stage operation)	4.5 Gallons/Min
Flow Range	to 600 CFM
Max ΔVacuum	24" Hg
Maximum RPM	3200
Minimum RPM	1530
Max ΔT	200°F
Inlet Connection Size	6" Flange
Discharge Connection Size	5" Flange
Shaft Dia.	1.5"
Min Sheave Dia.	7.1"
Drive End Lubrication	Oil
Gear End Lubrication	Oil
Oil Sump Horiz Config	N/A
Oil Sump Vert Config	48 oz
Bare Unit Weight	400 lbs
Container	Wood Skid
Skid Size (L x W x H)	42" x 29" x 36"
Shipping Weight on Skid	~450 lbs
Recommended to Ship Via	Truck



## Roots Authorized

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Distributor

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**816-207-0090**

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