

Roots® Blower



412 RAM-GJ (GAS)

Part Number – 8241302x*

Repair Kit: 667542RK (Call if unit is bottom shaft)

*Part number changes dependent on shaft location and discharge

- Shaft configurations available: Left, Right, Top, Bottom
- Mechanical seals and viton O-rings are installed at each bearing to control gas and oil leakage
- Hydrodynamic shaft seal
- Heavy-duty unit with integral-shaft ductile iron impellers with an involute profile
- Rigid one-piece casing and head plates are grey iron
- Carburized and ground alloy steel spur timing gears
- Cylindrical roller bearings
- Piston rings reduce air leakage
- Splash oil lubricated on gear and drive ends
- Detachable steel mounting feet (feet are different for horizontal and vertical mounting)



Patented 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.

Also Available in:

- RAM
- RAM-J (Whispair)

Quick Specs

Flow Range	to 1199 CFM
Max ΔPressure	15 PSI
Max ΔVacuum	16" Hg
Maximum RPM	4000
Minimum RPM	1750
Max ΔT	240°F
Connection Size	6" Flange
Shaft Dia.	1.5"
Min Sheave Dia.	7.1"
Drive End Lubrication	Oil
Gear End Lubrication	Oil
Oil Sump Horiz Config	55 oz
Oil Sump Vert Config	27 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

Representative
Distributor
Packager

Repair Center

816-207-0090

Sound Enclosures
Custom Fabrication
Blower Packages
Valves, Gauges & Sensors
Spool Pieces
Blower Parts
Oil and Grease
Silencers & Filters
Filter Elements
Air Handling Equipment
Screw Conveyors

