

Roots® Blower



418 RAM-GJ (GAS)

Part Number – 8241402x*

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 2950 CFM |
| Max ΔPressure | 10 PSI |
| Max ΔVacuum | 16" Hg |
| Maximum RPM | 4000 |
| Minimum RPM | 1750 |
| Max ΔT | 240°F |
| Connection Size | 8" 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 | 480 lbs |
| Container | Wood Skid |
| Skid Size (L x W x H) | 42" x 29" x 36" |
| Shipping Weight on Skid | ~520 lbs |
| Recommended to Ship Via | Truck |

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Repair Center

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