

Roots® Blower

RCS-J Series - 817, 824, 827, 832

Call for Part Numbers and Repair Kits

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.

- Heavy-duty unit with integral-shaft ductile iron impellers with an involute profile
- Rigid one-piece casing, drive end cover, end cover, and head plates are grey iron
- Carburized and ground alloy steel spur timing gears
- Cylindrical roller bearings on drive end
- Ball bearings on gear end
- 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
- Horizontal and vertical configurations available

Quick Specs

	817 RCS-J	824 RCS-J	827 RCS-J	832 RCS-J
Flow Range	to 3116 CFM	To 3740 CFM	to 4676 CFM	To 5610 CFM
Max ΔPressure	15 PSI	15 PSI	13 PSI	10 PSI
Max ΔVacuum	15" Hg	16" Hg	16" Hg	15" Hg
Max ΔPressure w/Oil Cooler	18 PSI	15 PSI	13 PSI	
Max ΔVacuum w/Oil Cooler	16" Hg	16" Hg	16" Hg	16" Hg
Maximum RPM	2250	2250	2250	2250
Minimum RPM	880	880	880	880
Max ΔT	230°F	230°F	230°F	230°F
Max ΔT with Oil Cooler	260°F	260°F	260°F	260°F
Inlet Connection	10" Flange	12" Flange	12" Flange	14" Flange
Discharge Connection	10" Flange	10" Flange	12" Flange	12" Flange
Shaft Dia.	2.75"	2.75"	2.75"	2.75"
Min Sheave Dia.	13.25"	13.25"	13.25"	13.25"
Drive End Lubrication	Oil	Oil	Oil	Oil
Gear End Lubrication	Oil	Oil	Oil	Oil
Oil Sump Horiz Config	328 oz	328 oz	328 oz	328 oz
Oil Sump Vert Config	232 oz	232 oz	232 oz	232 oz
Bare Unit Weight	1200 lbs	1800 lbs	2075 lbs	2325 lbs
Container	Wood Skid	Wood Skid	Wood Skid	Wood Skid
Skid Size (L x W x H)	54" x 32" x 36"	54" x 32" x 36"	54" x 32" x 36"	54" x 32" x 36"
Shipping Weight on Skid	~1250 lbs	~1850 lbs	~2125 lbs	~2375 lbs
Recommended to Ship Via	Truck	Truck	Truck	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

