

# Roots® Blower

## RCS Series - 817, 824, 827

Call for Part Numbers and Repair Kits

- 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
- Detachable steel mounting feet
- Horizontal and vertical configurations available
- Center timed for rotation in either direction.
- Trico oilers are standard on the drive end.
- Uni-directional hydrodynamic seals are available as an option

### Also Available in:

- RCS-J (Whispair™)
- RCS with Std Copper Tube Oil Cooler
- RCS-J with Std Aluminum Tube Oil Cooler
- Plugged Impeller Option
- VJ (Water Sealed Exhauster Whispair™)

### Quick Specs

	817 RCS	824 RCS	827 RCS
Flow Range	to 4050 CFM	To 4460 CFM	to 4650 CFM
Max ΔPressure	18 PSI	15 PSI	13 PSI
Max ΔVacuum	16" Hg	16" Hg	16" Hg
Maximum RPM	2250	2250	2250
Minimum RPM	880	880	880
Max ΔT	230°F	230°F	230°F
Max ΔT with Oil Cooler	260°F	260°F	260°F
Connection Size	10" Flange	12" Flange	14" Flange
Shaft Dia.	2.75"	2.75"	2.75"
Min Sheave Dia.	13.25"	13.25"	13.25"
Drive End Lubrication	Oil	Oil	Oil
Gear End Lubrication	Oil	Oil	Oil
Oil Sump Horiz Config	85 oz	85 oz	85 oz
Oil Sump Vert Config	41 oz	41 oz	41 oz
Bare Unit Weight	1200 lbs	1330 lbs	1600 lbs
Container	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"
Shipping Weight on Skid	~1250 lbs	~1380 lbs	~1650 lbs
Recommended to Ship Via	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

