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Model Number: 4007-21B2

Tuthill 4007-21B2 Competitor Blower 4007-21BC Bottom Shaft

Manufacturer: Tuthill

COMPETITOR PLUS® blowers are designed to be interchangeable with equivalent sizes of Roots Universal RAI®; and many Sutorbilt®; California Series B and F, and Legend®; Series L and P blowers. COMPETITOR PLUS models are rated up to 15 PSIG discharge pressure or 16" Hg dry vacuum. In addition to interchangeability, Competitor Blowers have superior features ordinarily found only on premium blowers - see table below.

#### Performance Specifications:

Pressure range: up to 15 PSIG (1.03 bar g)  
Vacuum range: up to 16" Hg (540 mbar g)  
530 CFM @ 3600 RPM

#### Material Specifications:

Housing: Cast iron  
End Plates: Cast iron  
End Cover: Cast iron  
Rotors: Ductile iron  
Shafts: Ductile iron, cast integrally with rotors  
Drive Shaft: Ductile iron, cast integrally with drive rotor  
Gears: Heat treated alloy steel, helical cut  
Seals: Lip seals on rotor shafts and drive shaft  
Lubrication: Oil splash on gear end, grease on drive end  
Bearings:

Gear end: Double row ball, both rotors  
Drive End: Cylindrical roller on drive rotor, Single row ball on driven rotor

Helical Gearing

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Double Row Ball Bearings

Rotors with Integral Shafts

Positive End Clearances

Polished Sealing Surfaces

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Individually Tested

Carpet Cleaning, Dairy Milking, Mosquito Fogging, Wastewater Aeration, Trenchless Drilling, Air Sparging, Compost Aeration, Dust Collection, Vacuum Cleaning

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This can be used as an exact drop in replacement for Dresser Roots URAI #47 vacuum blower (same footprint, same dimensions, same port openings). Shaft diameter is 7/8".

Shipping weight: 140#

Shipping Dimensions:  
25x21x26H

Applications:

Carpet Cleaning  
Dairy Milking  
• Mosquito Fogging  
• Wastewater Aeration  
Trenchless Drilling  
Air Sparging  
Compost Aeration  
Vacuum Cleaning  
Dust Collection

Features:

- Gears: Helical gearing for quiet operation
- Bearings:

Gear End: Double row ball  
Drive Shaft: Cylindrical roller

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- Rotors: Ductile iron, integrally cast with shafts
- Lubrication:

Gear End: Oil splash  
Drive End: Grease

- Seals: Lip
- Low noise option available on most models
- Flow range: 6 - 2300 CFM (10 - 3900 m<sup>3</sup>/h)
- Pressure range: up to 15 PSIG (1.03 bar g)
- Vacuum range: up to 16" Hg (540 mbar g)
- Every unit tested before shipment
- Model 4007 Performance Curves

## Rotary Positive Gas Blowers

Designed with features found ordinarily on high-end blowers, COMPETITOR GT blowers are still designed to be interchangeable, with respect to foot print, shaft height and diameter, with equivalent sizes of Roots Universal RAI-G&reg;, and many Sutorbilt&reg; California Series Legend&trade; Series L and P, as well as M-D Pneumatics COMPETITOR PLUS&trade; blowers.

## Splash Oil Lubrication at One End

COMPETITOR GT blowers include splash oil lubrication at gear side and grease on shaft side.

## Helical Gearing

COMPETITOR GT blowers are timed with hardened, precision helical gears, keyed to the rotor shafts, not taper fit spur gears offered by other manufacturers which have greater backlash, and can slip and lose timing. Helical gears are also quieter, further reducing mechanical noise.

## Stronger Bearings

All COMPETITOR GT blowers include double row ball bearings at the gear end, stronger than single row ball bearings offered by other manufacturers. Drive shaft bearing is cylindrical roller type for additional strength against side loading from V-belt drives.

As a result of this superior design, COMPETITOR GT blowers offer significantly longer bearing life than models offered by other manufacturers.

## Rotors with Integral Shafts

COMPETITOR GT blowers include precision machined ductile iron rotors with large, integrally cast shafts, not press fit and/or pinned shafts offered by other manufacturers, which can loosen over time and cause rotor clash. All rotors are dynamically balanced for vibration-free rotation.

## Positive End Clearances

End clearances are positively established at the blower gear end, eliminating the risk of shifting end clearances when installing or removing drive components. This also eliminates the need for those special fork and saddle tools required by other brands to

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reset end clearances.

Polished Drive Shaft Sealing Surfaces

Driveshaft is polished to reduce seal wear and risk of leakage.

Every Tuthill blower is backed by the Tuthill Vacuum & Blower Systems limited warranty:

24 months from date of shipment, or 18 months after initial startup date, whichever occurs first.

12 months after sale

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Drop in replacement for: Roots URI 47 and Sutorbilt 4L

Tuthill Blower Brochure

Owners Manual

Outline Sheet

Spec Sheet

The factory does not paint the blower.

They only apply a light primer spray to slow down rusting.

When you open the box all new blowers are rusted.

If you want us to take the blower out of the box and paint it, please let us know and we can do this for an extra fee.

Important Option

Oil level must be topped off on new blowers

Oil level must be changed after 50 hour break in period.

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Oil level must be changed every 200 hours after break in period.  
Gardner Denver 28G46 Brand Blower Oil Aeon PD-XD Full Synthetic  
Formula Extra Heavy Duty for High Heat Applications 28G47-QT  
Add to your shopping cart now!

*Availability: This product was added to our catalog on Thursday 11 July, 2013*