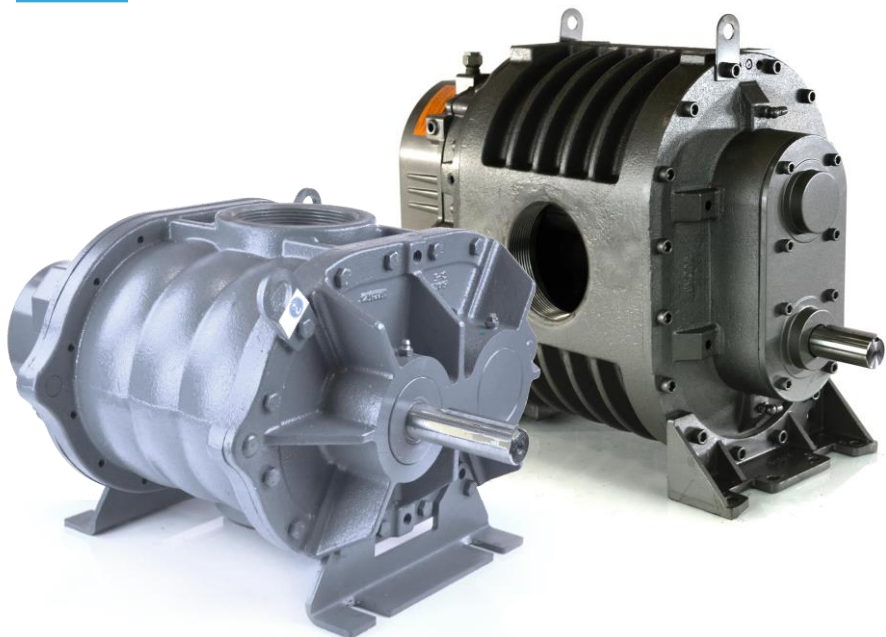


# Roots 59 URAI Blower

## Comparison with Sutorbilt Legend 5L



### SPECIFICATIONS

|                        | ROOTS<br>59 URAI | SUTORBILT<br>5L LEGEND |
|------------------------|------------------|------------------------|
| Flow Range:            | to 857 CFM       | To 953 CFM             |
| Max $\Delta$ Pressure: | 7 psi            | 7 psi                  |
| Max $\Delta$ Vacuum:   | 15" Hg           | 14" Hg                 |
| Maximum RPM:           | 2850             | 2850                   |
| Minimum RPM:           | 763              | 764                    |
| Max $\Delta$ T:        | 225° F           | 160° F                 |
| Connection:            | 4" FPT           | 4" FPT                 |
| Shaft Diameter:        | 1 1/8"           | 1 1/8"                 |
| Unit Weight:           | 204 lb           | 306 lb                 |

### LUBRICATION

Both the 59 URAI and 5L Legend utilize oil lubrication on the gear end and grease on the drive end.

|                                   | 59 URAI                        | 5L LEGEND                     |
|-----------------------------------|--------------------------------|-------------------------------|
| Required Oil<br>(Horizontal Unit) | 27.6 oz                        | 40 oz                         |
| Required Oil<br>(Vertical Unit)   | 16 oz                          | 18 oz                         |
| Grease Type                       | Aluminum<br>Complex<br>NLGI #2 | Lithium<br>Complex<br>NLGI #2 |

#### Gear End Oil Lubrication

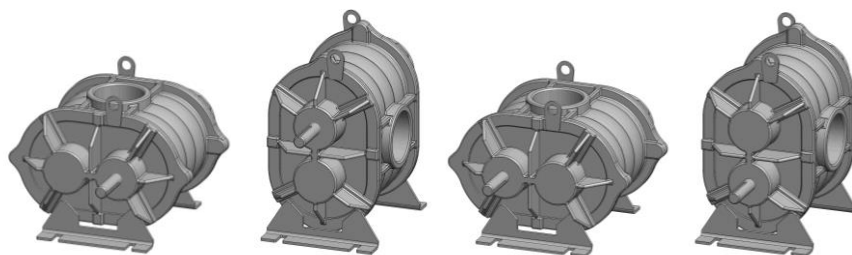
Blowers ship dry from factory and oil must be added before startup. Oil must be an industrial type non-detergent, rust inhibiting, anti-foaming oil of the correct viscosity. See your manual or contact us for assistance selecting the viscosity.

#### Drive End Grease Lubrication

These manufacturers use different types of grease which cannot be mixed. If you plan to change to a different grease than the type that came in your blower, a full purge must be done.

### CONFIGURATIONS

Both models feature movable mounting feet that allow the blower to be flipped into four different configurations. The manufacturer's part numbers are listed below.



|    | LEFT HAND | TOP DRIVE | RIGHT DRIVE | BOTTOM DRIVE |
|----|-----------|-----------|-------------|--------------|
| 59 | 6511402L  | 6511402T  | 6511402R    | 6511402B     |
| 5L | GAELC*A   | GAELA*A   | GAELD*A     | GAELB*A      |

*\*The sixth character in the Sutorbilt part number indicates the series designation. As of this print, the current series is S. Previous series include R, P and L.*

# Roots 59 URAI Blower

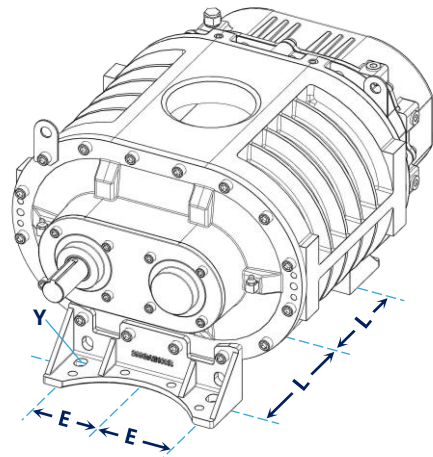
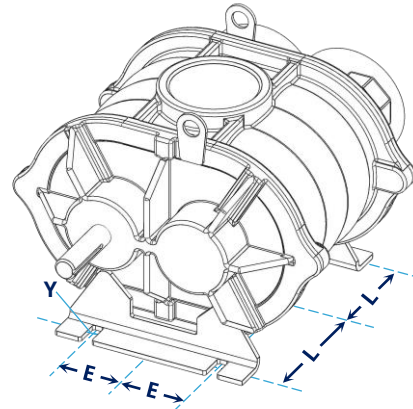
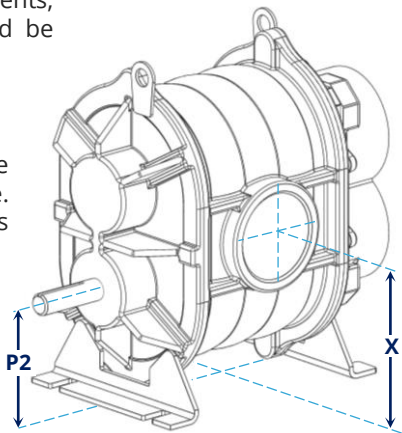
## Dimensional Comparison with Sutorbilt 5L

While these are considered drop-in equivalents, there are minor differences which should be considered for your situation.

### SHAFT AND CONNECTIONS

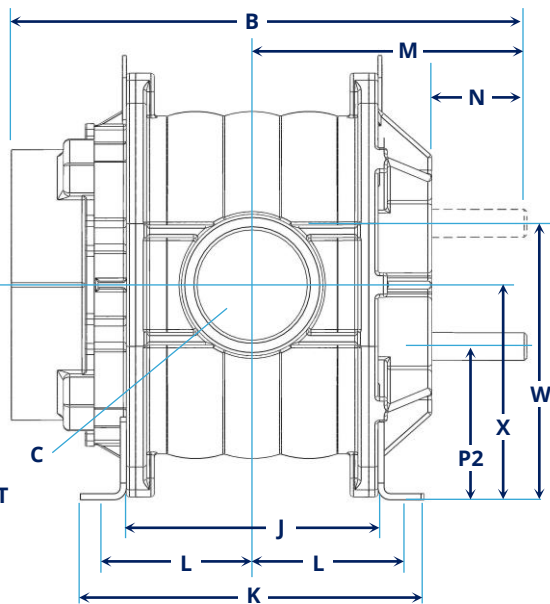
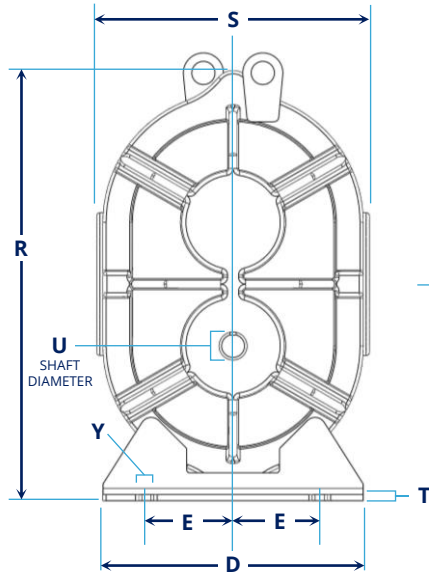
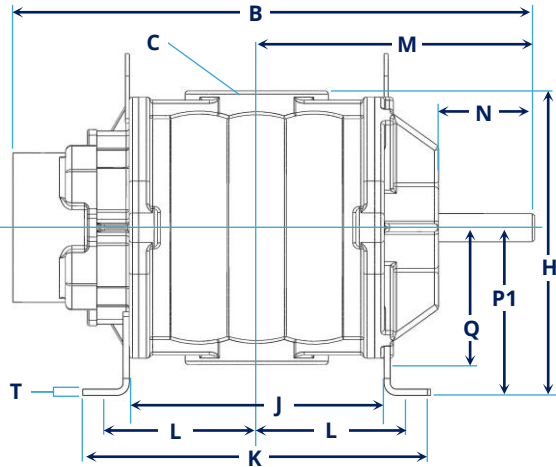
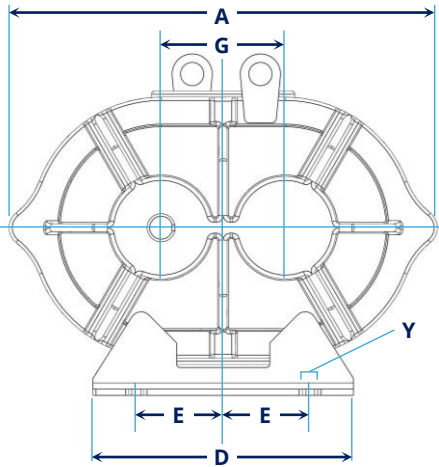
Shaft size (U) and connection size (C) are the most important dimensions to compare. With these two models both measurements are the same.

To determine whether any changes to your piping or enclosure will be needed, take note of the placement of the connections (X,H) and the shaft (P,W).



### MOUNTING FEET

The placement of the bolt slots in the mounting feet is also important to consider. Both units feature universal mounting feet that can be moved to accommodate changes in configuration.

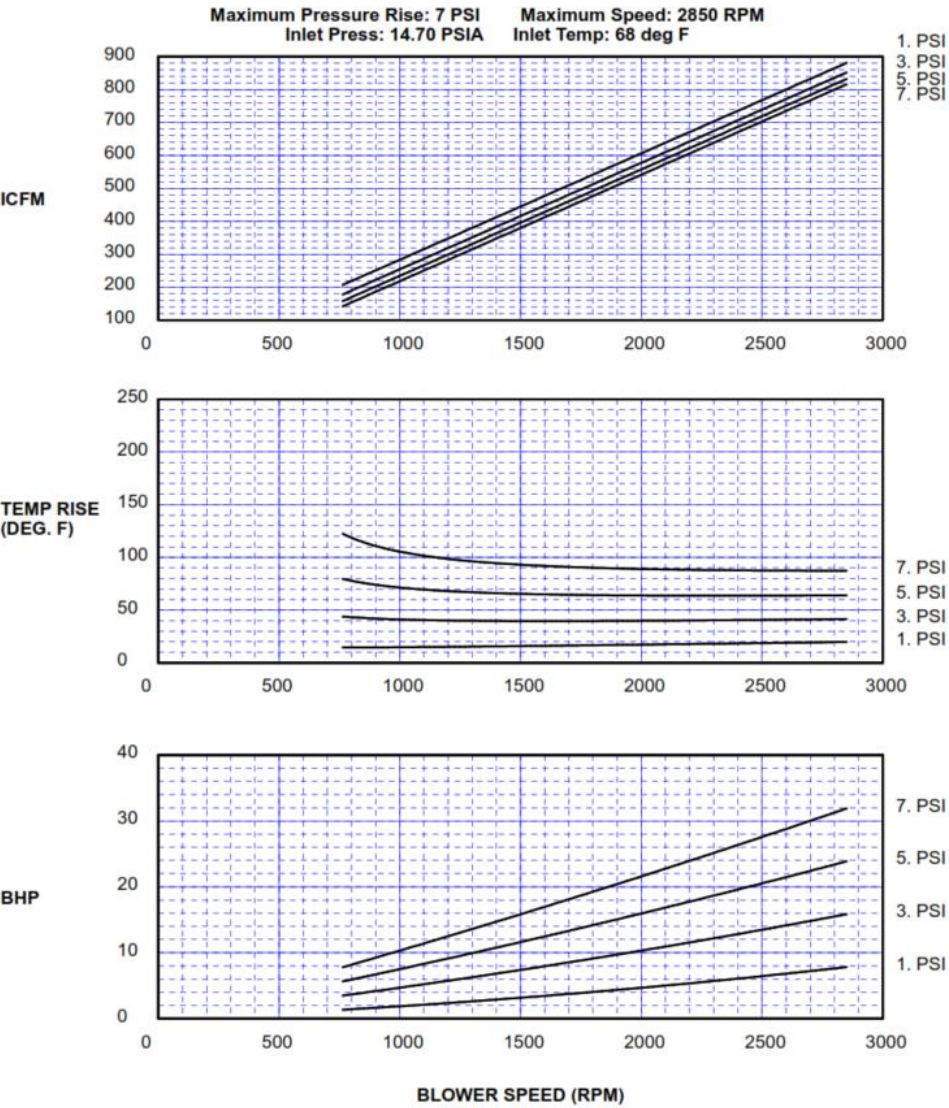


| MAKE      | MODEL     | A     | B     | C      | D    | E   | G | H     | J     | K     | L         | M     | N    | P1   | P2   | Q    | R     | S     | T    | U     | W     | X    | Y           |
|-----------|-----------|-------|-------|--------|------|-----|---|-------|-------|-------|-----------|-------|------|------|------|------|-------|-------|------|-------|-------|------|-------------|
| Roots     | 59 URAI   | 17.25 | 21    | 4" NPT | 10.5 | 3.5 | 5 | 12.25 | 10.24 | 14    | 6.0 - 6.5 | 11.19 | 3.88 | 6.75 | 6.25 | 5.5  | 17.38 | 11    | 0.25 | 1.125 | 11.25 | 8.75 | 0.5 x 1.63  |
| Sutorbilt | 5L Legend | 15.38 | 22.38 | 4" NPT | 9    | 3.5 | 5 | 12.19 | 10.86 | 16.85 | 6.5       | 11.19 | 2.5  | 7    | 5.5  | 5.19 | 15.85 | 10.38 | 0.38 | 1.125 | 10.5  | 8    | 0.56 x 0.75 |

All measurements shown in inches

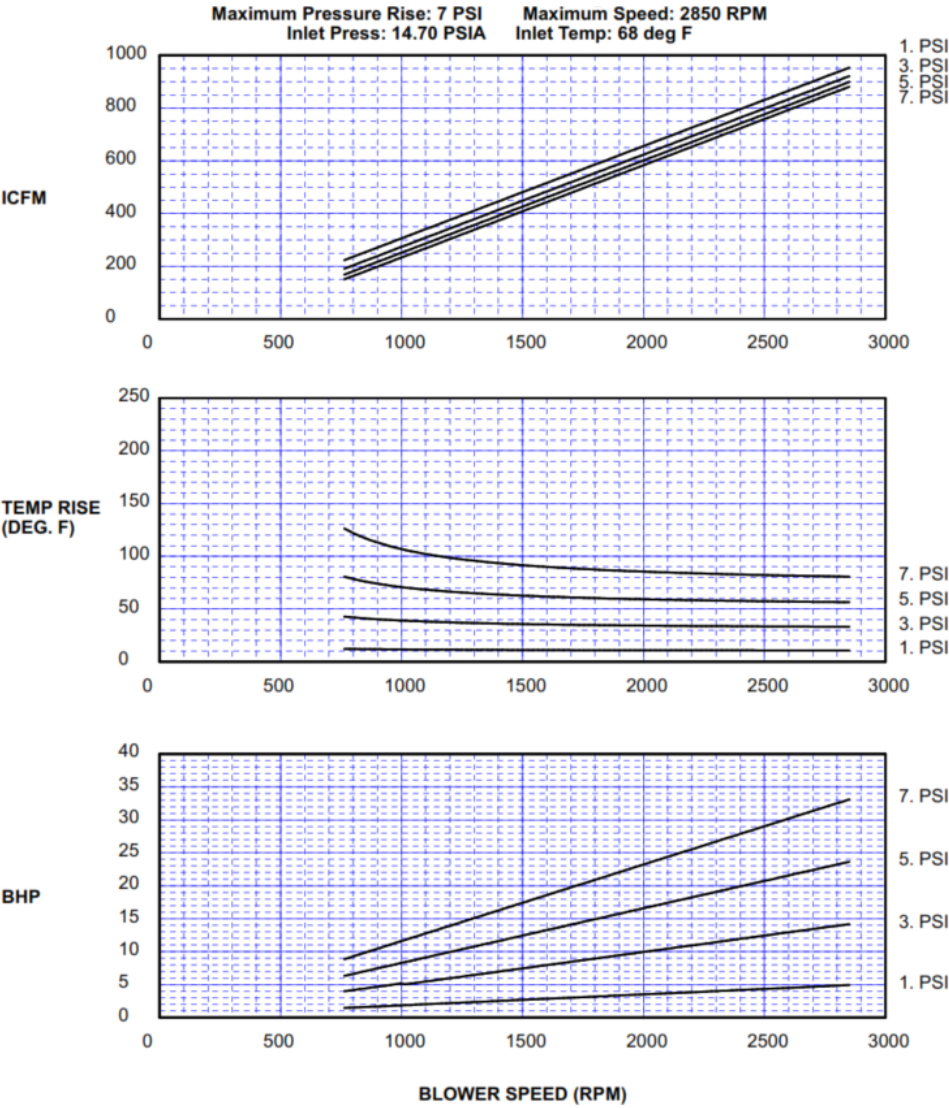
# Roots 59 URAI

PRESSURE PERFORMANCE



# Sutorbilt 5L Legend

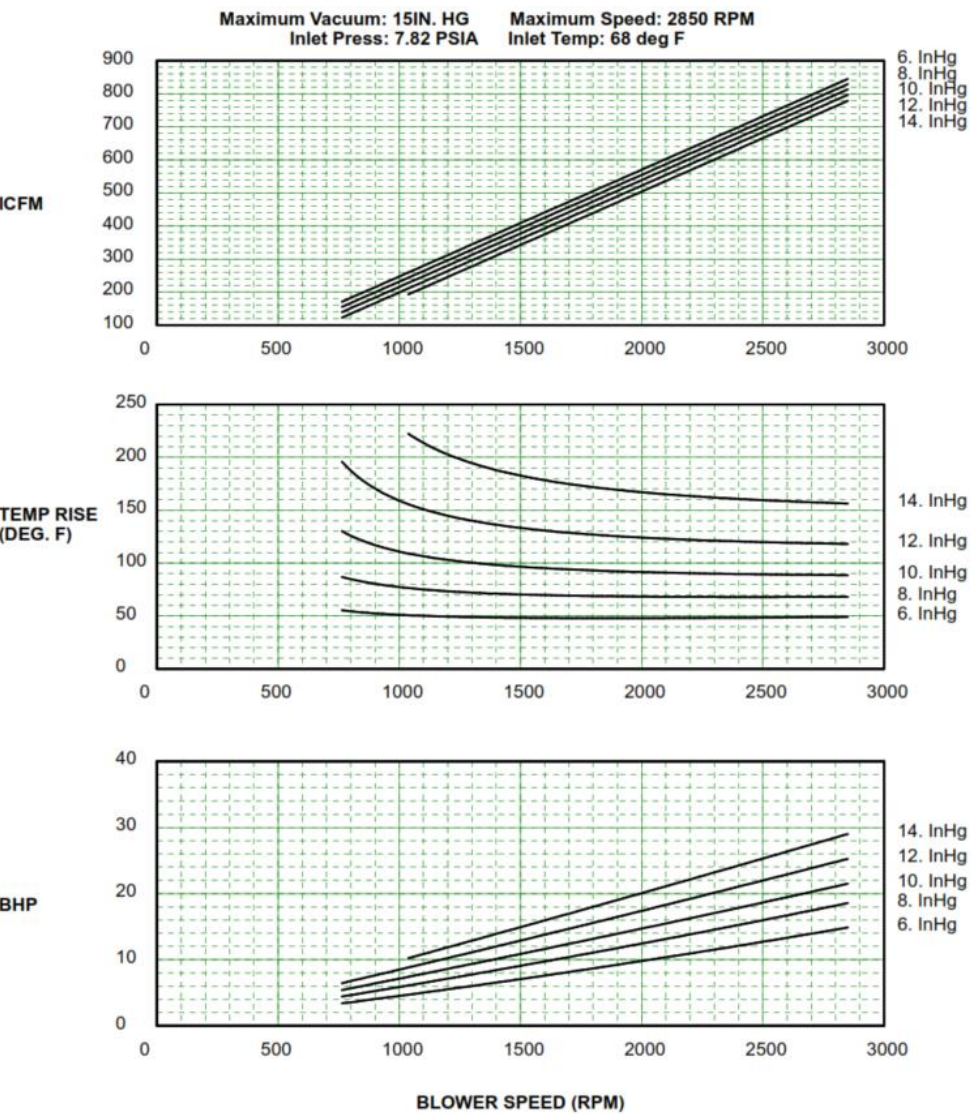
PRESSURE PERFORMANCE





# Roots 59 URAI

VACUUM PERFORMANCE



# Sutorbilt 5L Legend

VACUUM PERFORMANCE

