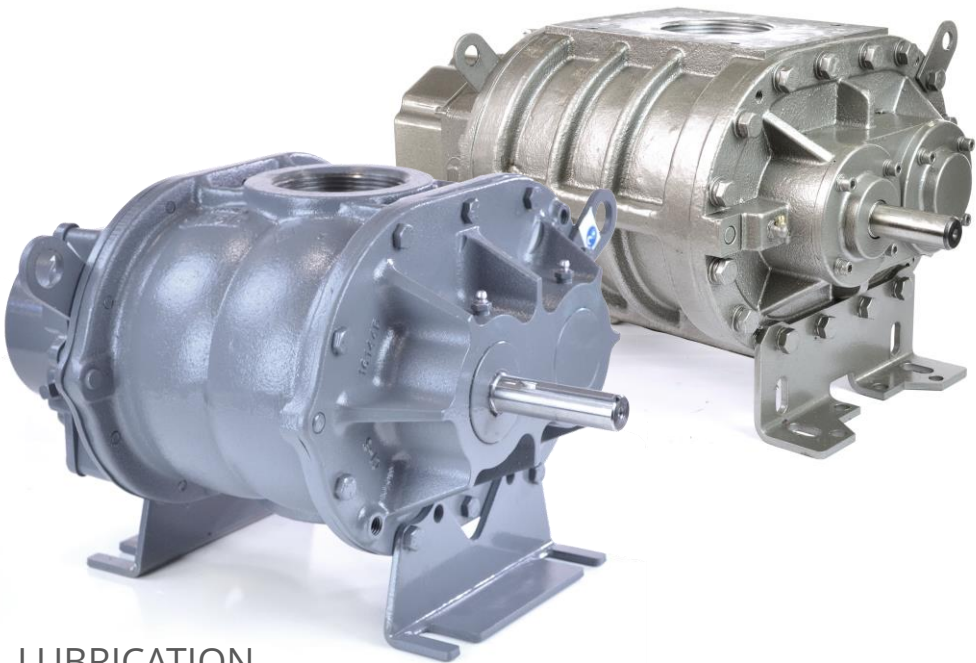


# Roots 47 URAI Blower

## Comparison with Eurus ZZ4L



### LUBRICATION

Both the 47 URAI and ZZ4L models utilize oil lubrication on the gear end and grease on the drive end.

|                                | 47 URAI                  | ZZ4L                    |
|--------------------------------|--------------------------|-------------------------|
| Required Oil (Horizontal Unit) | 22.8 oz                  | 15.5 oz                 |
| Required Oil (Vertical Unit)   | 12.7 oz                  | 6.7 oz                  |
| Grease Type                    | Aluminum Complex NLGI #2 | Lithium Complex 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 should not 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.

### SPECIFICATIONS

|                 | ROOTS 47 URAI | EURUS ZZ4L |
|-----------------|---------------|------------|
| Flow Range:     | to 523 CFM    | to 580 CFM |
| Max Δ Pressure: | 7 psi         | 7 psi      |
| Max Δ Vacuum:   | 15" Hg        | 14" Hg     |
| Maximum RPM:    | 3600          | 3600       |
| Minimum RPM:    | 848           | 945        |
| Max ΔT:         | 225° F        | 170° F     |
| Connection:     | 3" FPT        | 3" FPT     |
| Shaft Diameter: | 7/8"          | 7/8"       |
| Unit Weight:    | 128 lb        | 162 lb     |

### 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 |
|---------|-----------|-----------|-------------|--------------|
| 47 URAI | 6511002L  | 6511002T  | 6511002R    | 6511002B     |
| ZZ4L    | ZZ4L      | ZZ4L      | ZZ4L        | ZZ4L         |

# Roots 47 URAI Blower

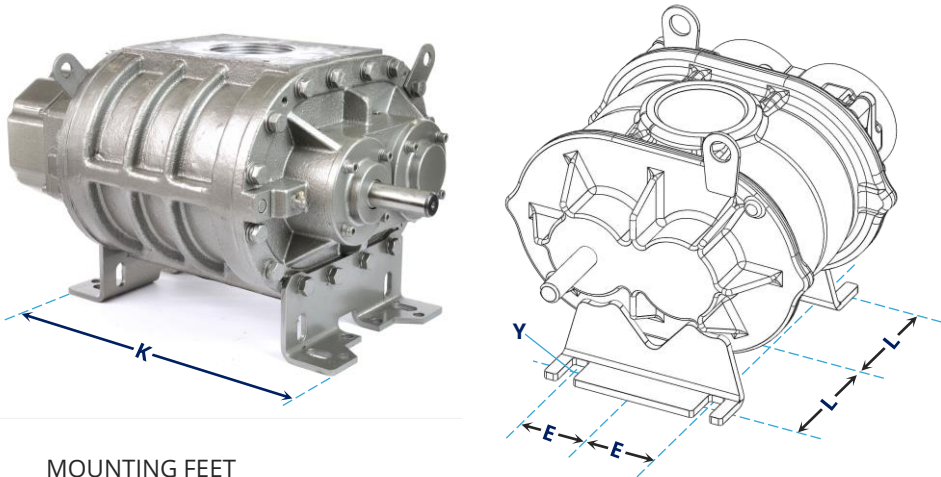
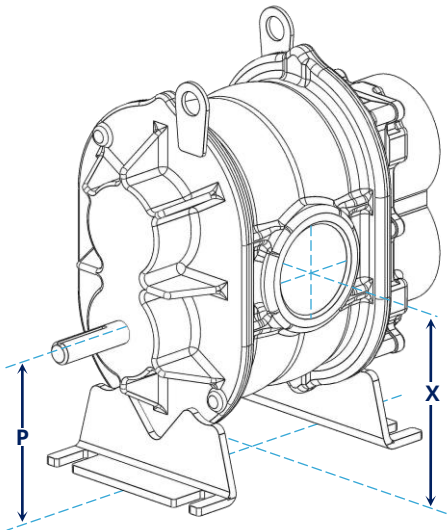
## Dimensional Comparison with Eurus ZZ4L

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

### SHAFT AND CONNECTIONS

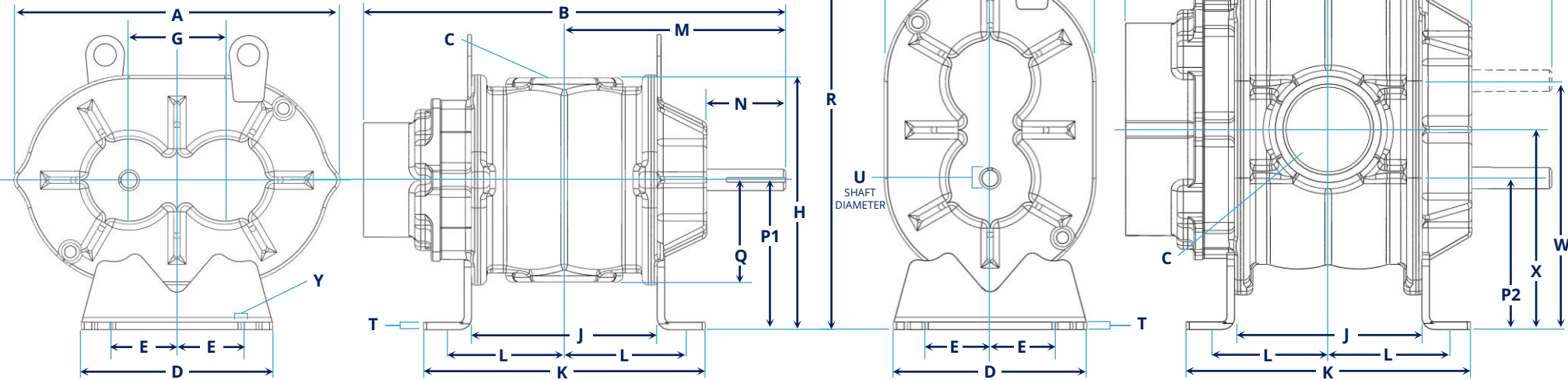
Shaft size (U) and connection size (C) are the most important dimensions to compare. With these two models both measurements are the same.

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.

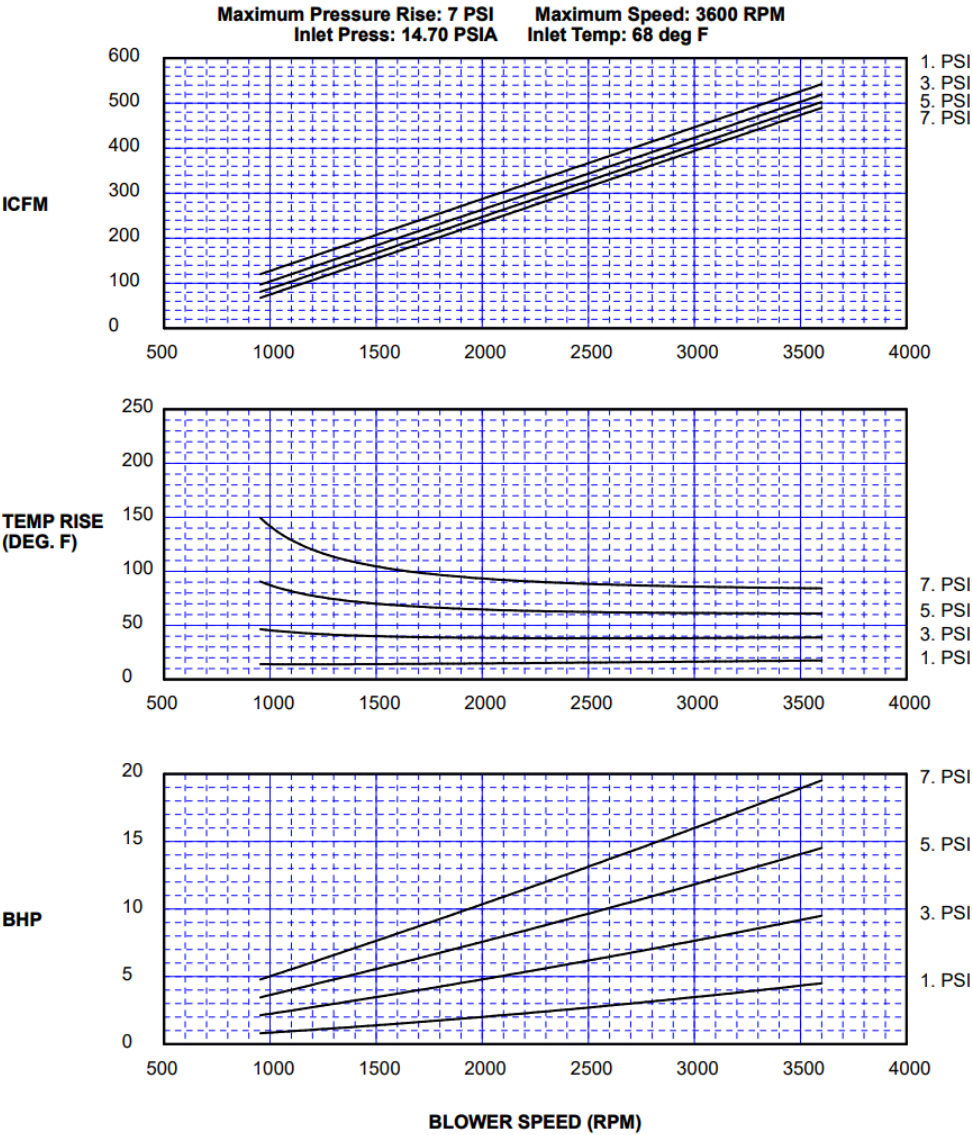


| MAKE  | MODEL   | A     | B     | C      | D    | E        | G    | H     | J    | K     | L           | M    | N    | P1   | P2   | Q    | R     | S    | T    | U     | W     | X    | Y           |
|-------|---------|-------|-------|--------|------|----------|------|-------|------|-------|-------------|------|------|------|------|------|-------|------|------|-------|-------|------|-------------|
| Roots | 47 URAI | 13.63 | 17.63 | 3" NPT | 8    | 3 - 3.13 | 4    | 10.5  | 7.75 | 11.75 | 4.63 - 5.38 | 9.25 | 3.31 | 6.25 | 6.25 | 4.25 | 15.06 | 8.5  | 0.31 | 0.875 | 10.25 | 8.25 | 0.44 bolts  |
| Eurus | ZZ4L    | 12.42 | 18.58 | 3" NPT | 7.99 | 3        | 4.04 | 10.53 | 8.9  | 13.39 | 5.2 - 5.67  | 9.27 | 2.36 | 6.26 | 4.48 | 4.27 | 12.71 | 8.54 | 0.24 | 0.875 | 8.51  | 6.5  | 0.55 x 1.02 |

All measurements shown in inches

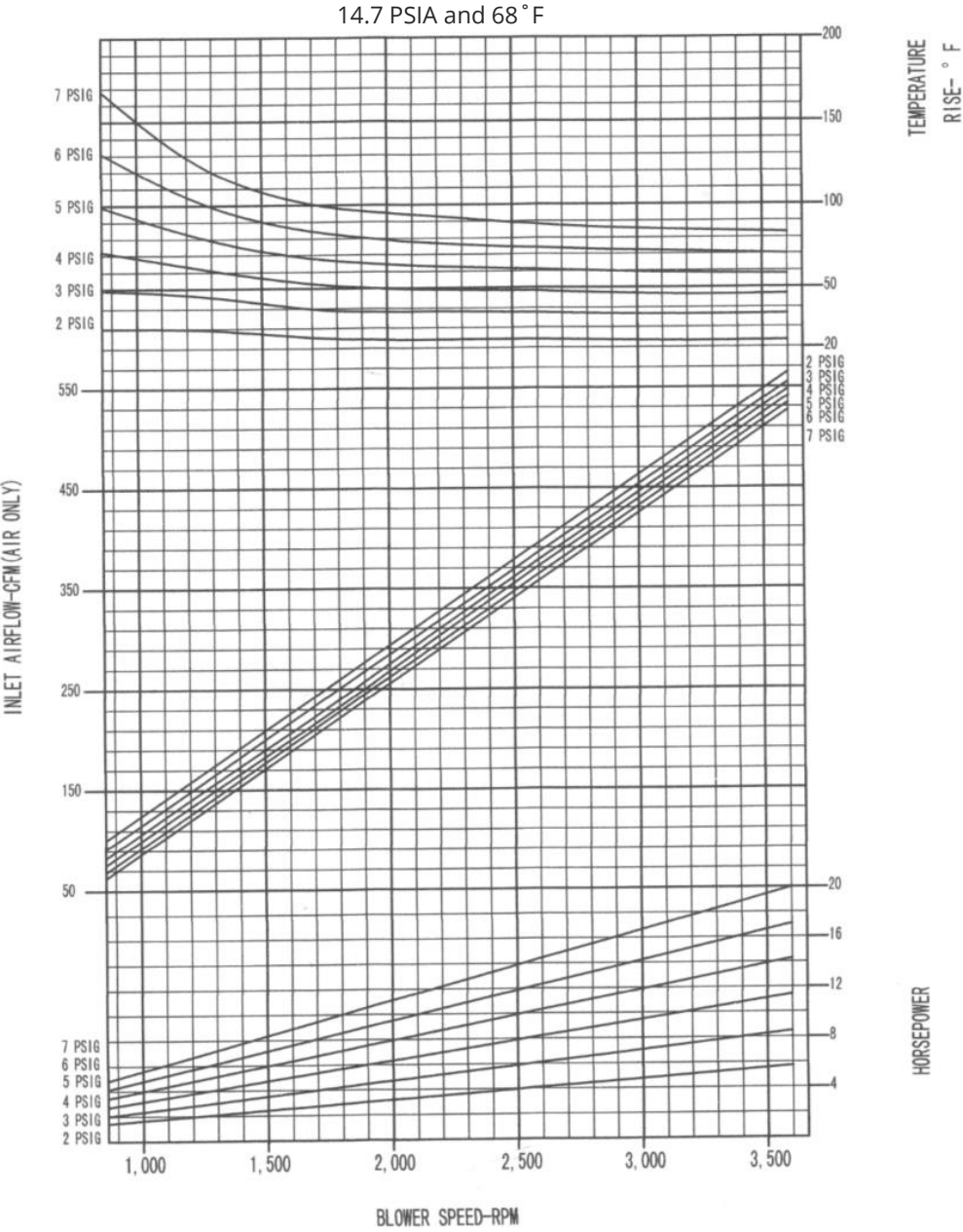
# Roots 47 URAI

PRESSURE PERFORMANCE



# Eurus ZZ4L

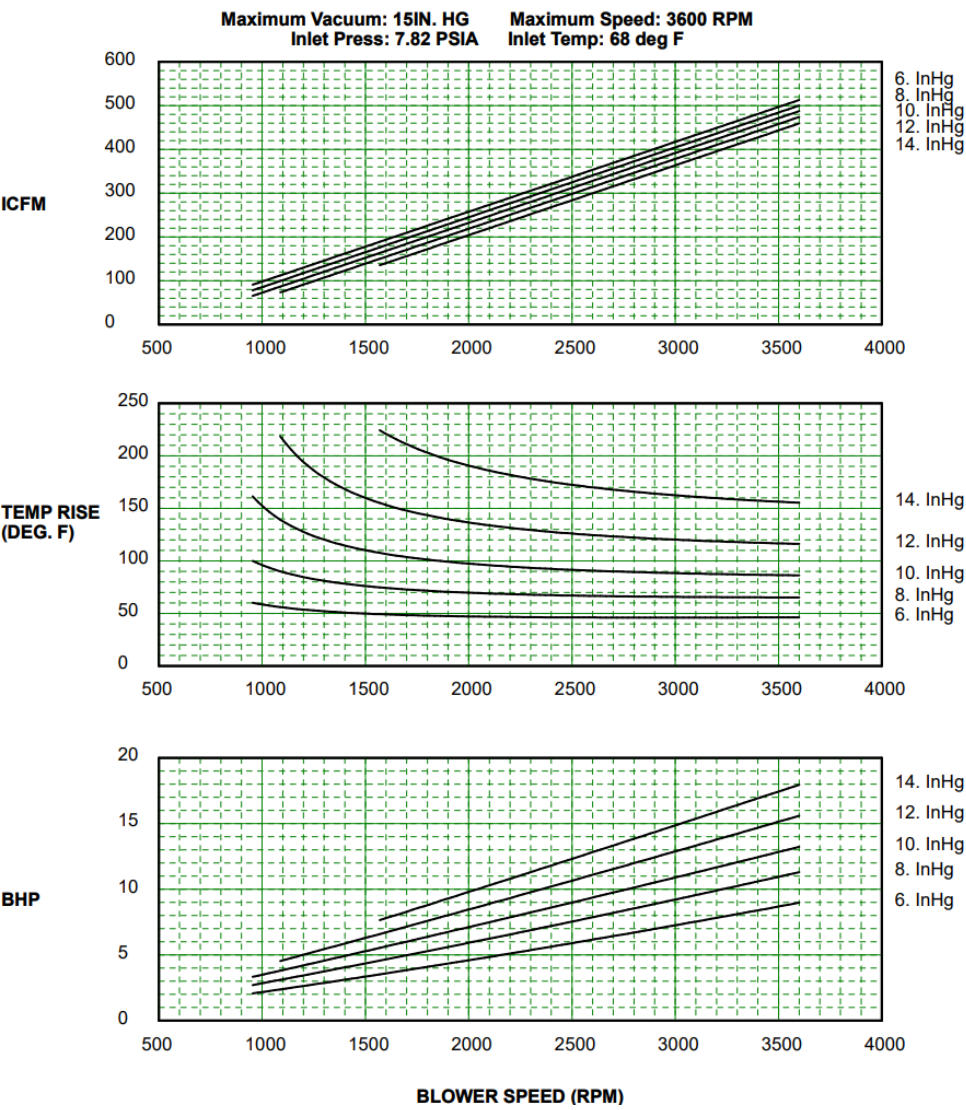
PRESSURE PERFORMANCE





# Roots 47 URAI

VACUUM PERFORMANCE



# Eurus ZZ4L

VACUUM PERFORMANCE

