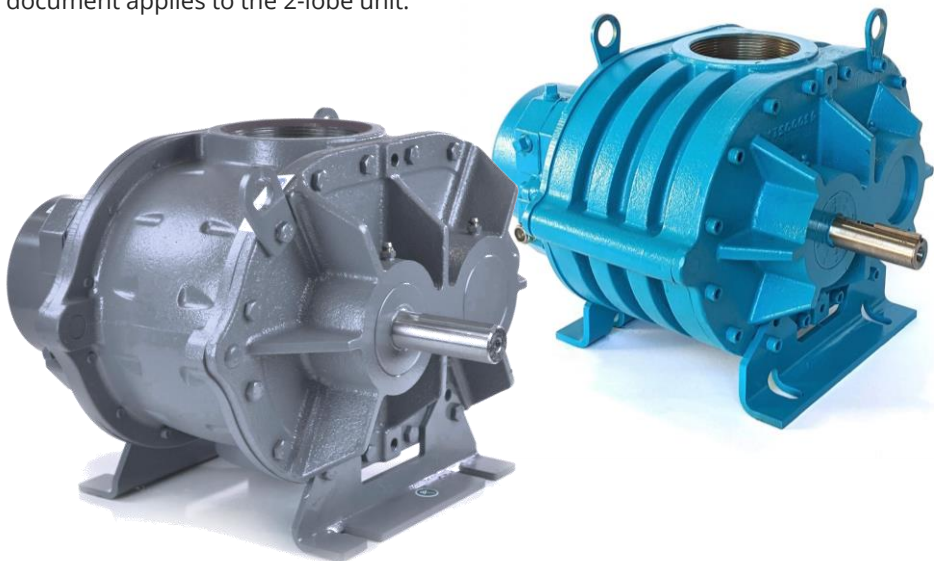


Roots 56 URAI Blower

Comparison with Tuthill 5006 Dual Lobe Blower

The 5006 model is in the Tuthill / M-D Pneumatics Competitor series and is also referred to as a 5006 CP. This unit is available in either a 2-lobe or 3-lobe design. This comparison document applies to the 2-lobe unit.



LUBRICATION

Both the 56 URAI and 5006 CP utilize oil lubrication on the gear end and grease on the drive end.

	56 URAI	5006 CP
Required Oil (Horizontal Unit)	27.6 oz	18.3 oz
Required Oil (Vertical Unit)	16 oz	7.1 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

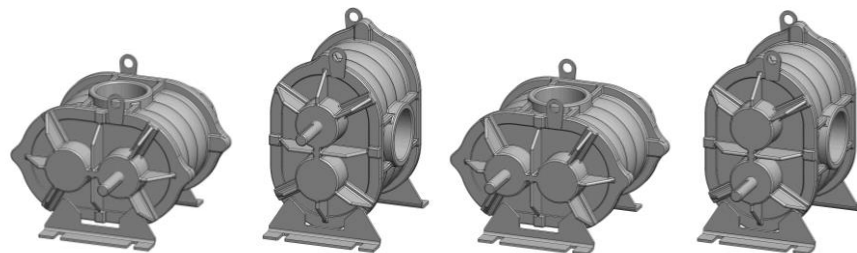
These manufacturers use different types of grease which should not be mixed. If you plan to change to a different grease than the type that came in your blower, a full purge must be done.

SPECIFICATIONS

	ROOTS 56 URAI	TUTHILL 5006 CP
Flow Range:	to 580 CFM	To 543 CFM
Max Δ Pressure:	13 psi	13 psi
Max Δ Vacuum:	15" Hg	16" Hg
Maximum RPM:	2850	2850
Minimum RPM:	763	700
Max Δ T:	225° F	195° F
Connection:	4" FPT	4" FPT
Shaft Diameter:	1 1/8"	1 1/8"
Unit Weight:	170 lb	185 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
56	6511302L	6511302T	6511302R	6511302B
5006	5006-A6L2CV1-A	5006-A6T2CV1-A	5006-A6R2CV1-A	5006-A6B2CV1-A

*Characters in the Tuthill model designations indicate materials, configurations, and special options.

Roots 56 URAI Blower

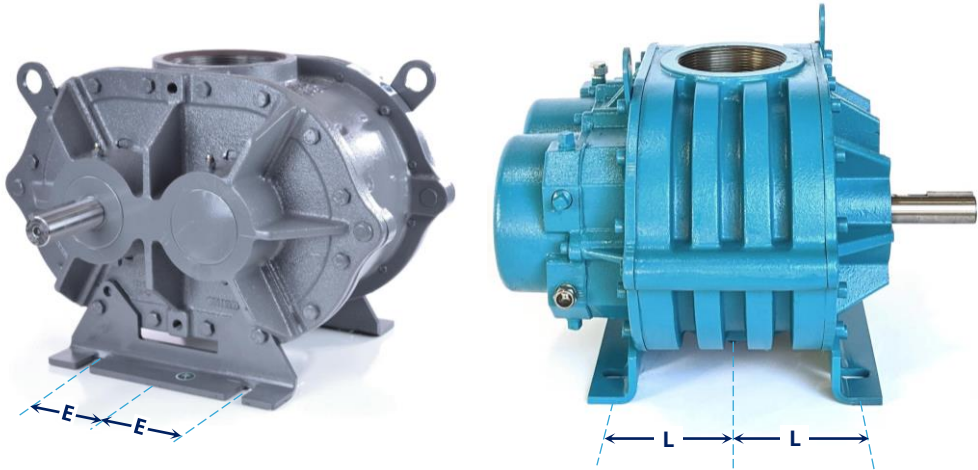
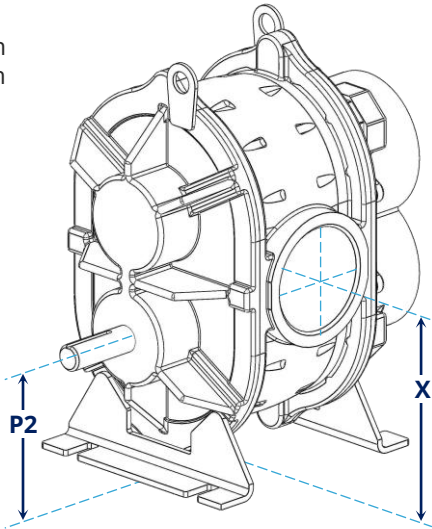
Dimensional Comparison with Tuthill 5006

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

SHAFT AND CONNECTIONS

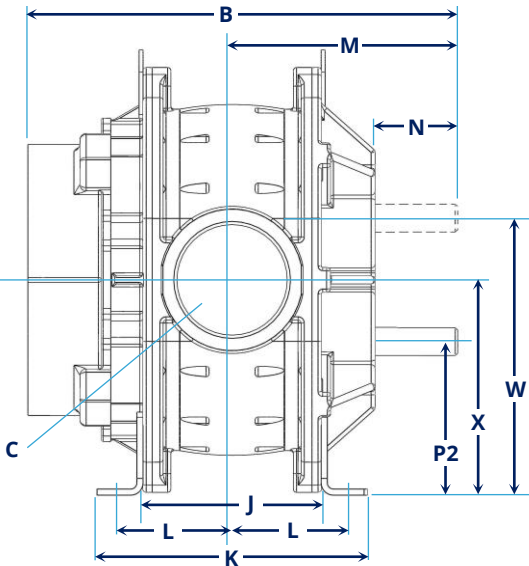
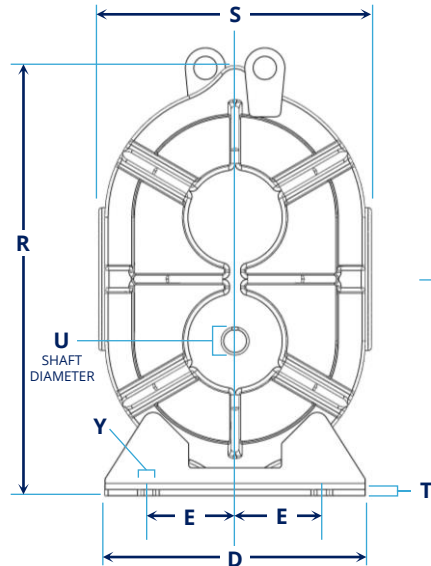
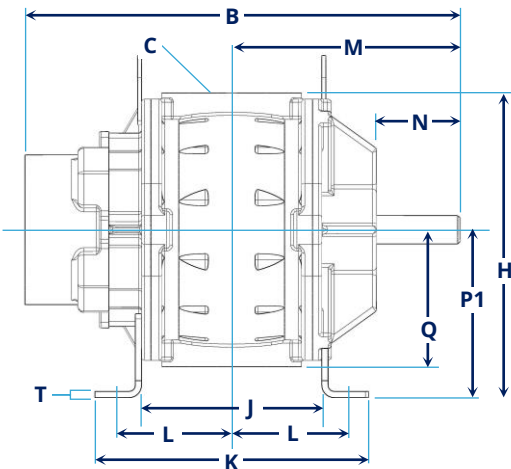
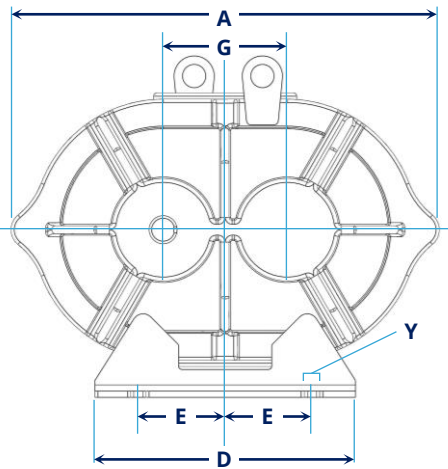
Shaft size and connection size are the most important dimensions to compare. With these two models both measurements are the same.

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.

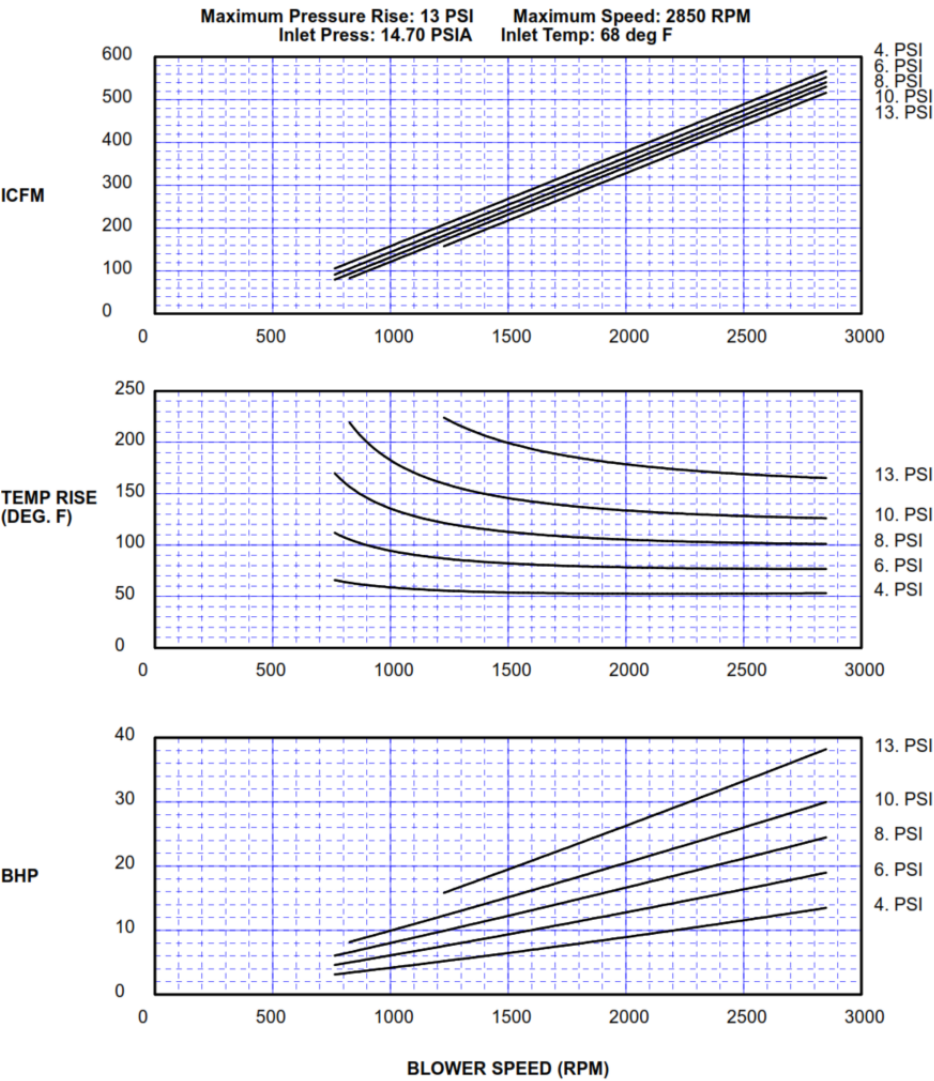


MAKE	MODEL	A	B	C	D	E	G	H	J	K	L	M	N	P1	P2	Q	R	S	T	U	W	X	Y
Roots	56 URAI	17.25	17.5	4" NPT	10.5	3.5	5	12.25	7.24	11	4.25 - 5	9.19	3.38	6.75	6.25	5.5	17.38	11	0.25	1.125	11.25	8.75	1/2" bolts
Tuthill	5006 CP	17.19	17.88	4" NPT	10.5	3.5	5	12.13	7.3	11.06	4.81	9.19	3.38	6.75	6.25	5.38	17.38	10.76		1.125	11.25	8.75	5/8" bolts

All measurements shown in inches

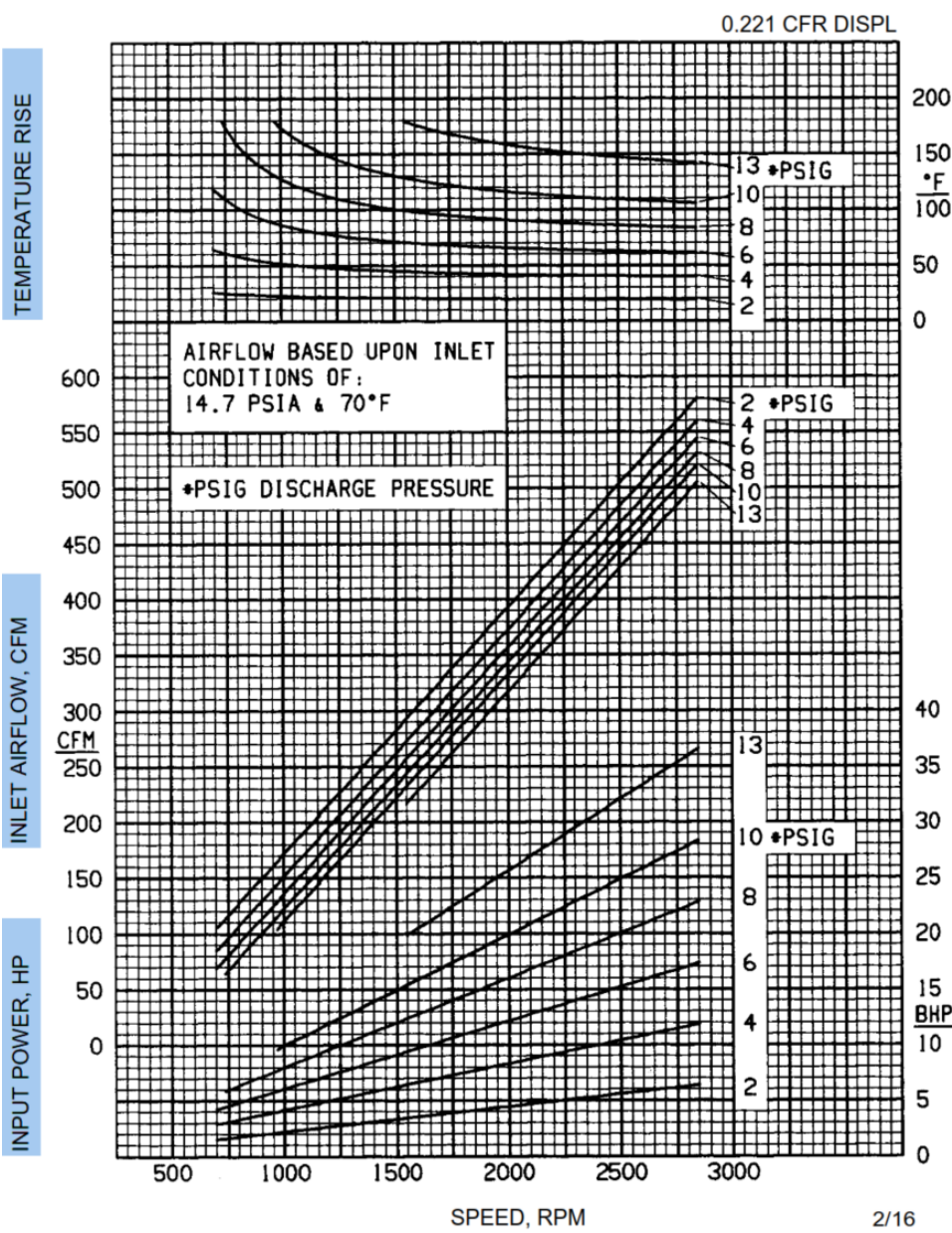
Roots 56 URAI

PRESSURE PERFORMANCE



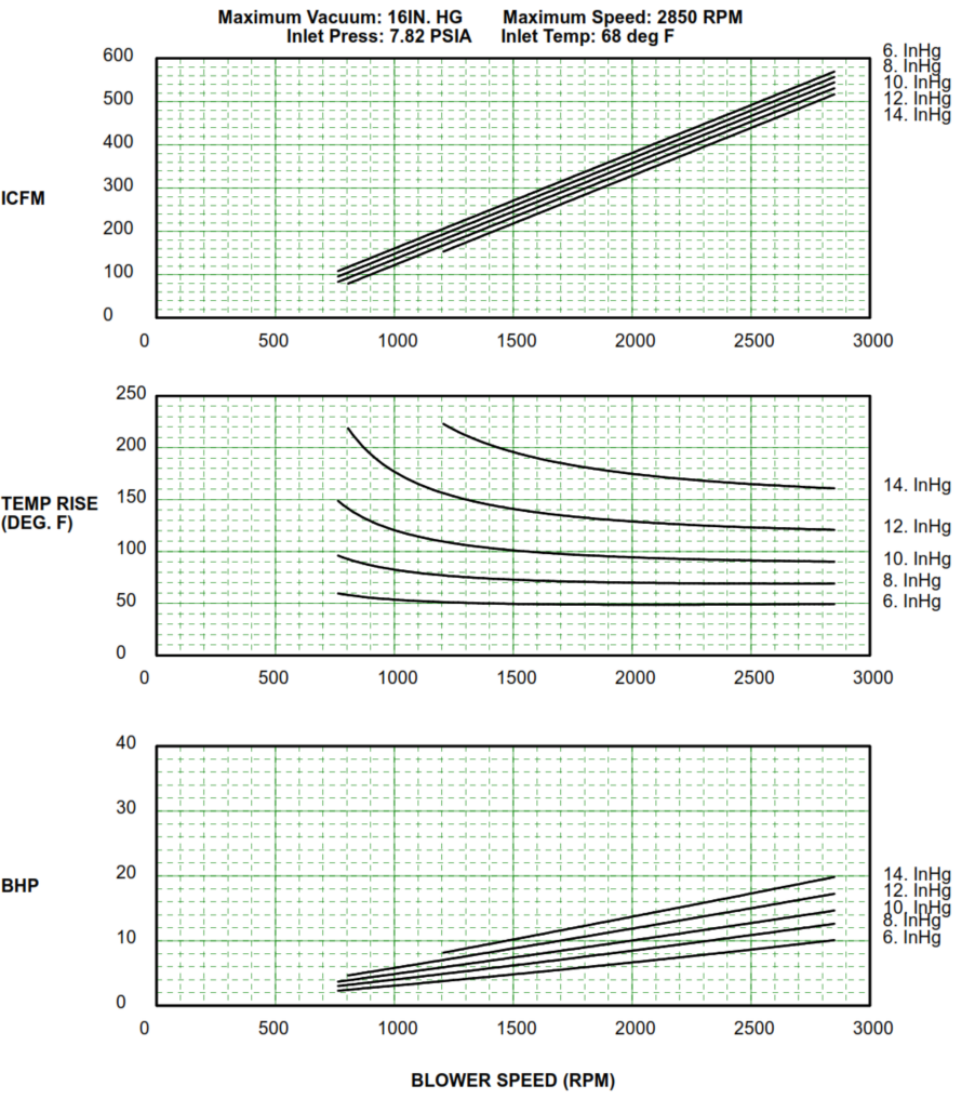
Tuthill 5006 CP, Dual Lobe

PRESSURE PERFORMANCE



Roots 56 URAI

VACUUM PERFORMANCE



Tuthill 5006 CP, Dual Lobe

VACUUM PERFORMANCE

