

50000 Series 50 HP Rotary Vane Compressor

Select RPM

1760

Select S.G

0.65

Performance at 87 psig discharge Pressure - speed 1760

Intake Pressure (psig)	-0.5	0	1	2	3	4	5	6	7	8	9	10	S.G
Shaft Power (BPH)	29.4	29.6	30	30.4	30.9	31.1	31.8	32.2	32.6	33	33.4	33.7	
Flow (scfd)	147896	152470.2	161618	170766	181644	190940	203052	212200	221347	230496	239644	248791	0.65

Performance at 116 psig discharge Pressure - speed 1760

Intake Pressure (psig)	-0.5	0	1	2	3	4	5	6	7	8	9	10	S.G
Shaft Power (BPH)	32.35	32.6	33.1	33.5	34	34.3	35	35.5	35.9	36.3	36.8	37.2	
Flow (scfd)	144983	149466.5	158434	167401	178064	187178	199051	208019	216987	225954	234921	243889	0.65

Performance at 145 psig discharge Pressure - speed 1760

Intake Pressure (psig)	-0.5	0	1	2	3	4	5	6	7	8	9	10	S.G
Shaft Power (BPH)	35.8	36	36.4	36.9	37.5	37.8	38.6	39.1	39.6	40.1	40.5	41	
Flow (scfd)	142125	146520.9	155312	164103	174556	183489	195129	203920	212711	221502	230293	239083	0.65

Max rpm:2100, 0 psig = 13.7 psia @2500 ft

This curve is estimated and based on manufacturer curve generated for natural gas of sp. gravity 0.6. This curve is made as a guideline only. For vacuum pressure application there is the possibility of introducing open air oxygen to natural gas which may be potential source for explosion.