



Leading in Excellence and Innovativeness

From America Service World

USA Technology

M45

M60

M80 *series*

Tri-Lobes

Roots Blower

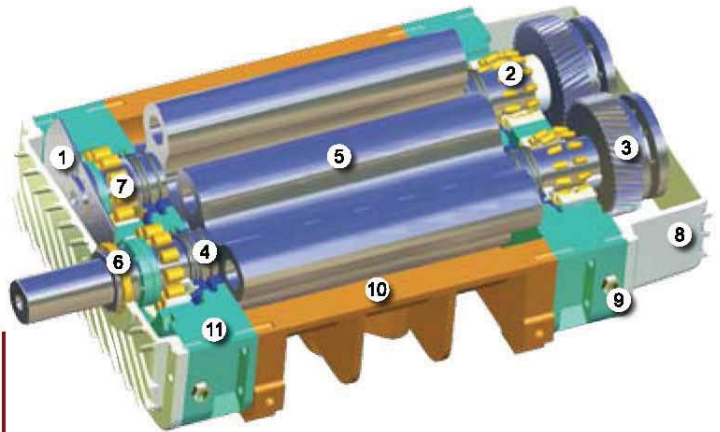
A decorative graphic at the bottom of the page showing a dynamic splash of blue water against a light blue background.

Greentech International (Zhangqiu) Co., Ltd.



Built For Long Life

- Heavy duty, oversized bearings designed for longer L10 life in industrial applications.
- Dual-splash aluminum tank design ensures gear and bearing longevity.
- One piece integrated ductile iron rotors and shafts, large shaft diameters, one piece high strength housing, and one piece end plates reduce torsion and vibration.
- Housings are designed for horizontal or vertical mounting configurations.
- Multi-piston ring air and oil seals minimize maintenance costs and ensure delivery without oil and air cross contamination.
- Viton lip oil seals with o-rings prevent oil leakage.
- Wearable shaft sleeves prevent oil leakage past drive shaft and extends shaft life.
- The innovative Tri-Lobe rotor profile and advanced housing design reduce noise and vibration.



1. Taper-lock Shaft Mounting



2. Oversized Bearings



3. Precision Helical Timing Gears



4. Multi-piston Ring Oil/Air Seals



5. Ductile Iron Rotor



6. Viton Oil Seals on Wearable Shaft Sleeves



7. Roller Drive Bearing



8. Aluminum Oil Covers



9. Oil Sight Glasses



10. Cast Iron Housing



11. High Strength End Plate

Pressure Performance (1)

Model	Bore	RPM	Inlet Flow Qs(m³/min), Shaft Power La(kW)and Motor Power Po (kW)																								Motor Pole								
			29.4kPa				39.2 kPa				49 kPa				58.8 kPa				68.6 kPa				78.4 kPa					88.2 kPa				98 kPa			
			Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po		Qs	La	Po					
		2000	5.6	3.3	4	5.4	4.4	5.5	5.2	5.5	7.5	5.1	6.6	7.5	4.9	7.7	11	4.8	8.8	11	4.7	9.8	11	4.5	10.9	15	4								
		2200	6.3	3.6	4	6.1	4.8	5.5	5.9	6.1	7.5	5.8	7.3	11	5.6	8.5	11	5.5	9.7	11	5.4	10.9	15	5.2	12.1	15	4								
		2400	7.0	4.0	5.5	6.8	5.3	7.5	6.6	6.7	7.5	6.4	8.0	11	6.3	9.3	11	6.2	10.7	15	6.0	12.0	15	5.9	13.3	15	2								
		2600	7.7	4.4	5.5	7.5	5.8	7.5	7.3	7.3	11	7.1	8.7	11	7.0	10.2	15	6.9	11.6	15	6.7	13.1	15	6.6	14.5	18.5	2								
		2800	8.4	4.7	5.5	8.2	6.3	7.5	8.0	7.9	11	7.8	9.5	11	7.7	11.1	15	7.5	12.6	15	7.4	14.2	18.5	7.3	15.8	18.5	2								
M4506	80	3000	9.0	5.1	7.5	8.8	6.8	7.5	8.7	8.5	11	8.5	10.2	15	8.4	11.9	15	8.2	13.7	18.5	8.1	15.4	18.5	8.0	17.1	22	2								
		3200	9.7	5.5	7.5	9.5	7.4	11	9.4	9.2	11	9.2	11.0	15	9.1	12.9	15	8.9	14.7	18.5	8.8	16.5	18.5	8.7	18.4	22	2								
		3400	10.4	5.9	7.5	10.2	7.9	11	10.0	9.9	11	9.9	11.8	15	9.7	13.8	18.5	9.6	15.8	18.5	9.5	17.8	22	9.4	19.7	22	2								
		3600	11.1	6.3	7.5	10.9	8.4	11	10.7	10.6	15	10.6	12.7	15	10.4	14.8	18.5	10.3	16.9	22	10.2	19.0	22	10.0	21.1	30	2								
		3800	11.8	6.8	7.5	11.6	9.0	11	11.4	11.3	15	11.3	13.5	15	11.1	15.8	18.5	11.0	18.0	22	10.9	20.3	30	10.7	22.5	30	2								
		4000	12.5	7.2	11	12.3	9.6	11	12.1	12.0	15	12.0	14.4	18.5	11.8	16.8	22	11.7	19.2	22	11.5	21.6	30	11.4	24.0	30	2								
		2000	8.5	5.0	7.5	8.2	6.6	7.5	8.0	8.3	11	7.7	9.9	11	7.5	11.6	15	7.3	13.2	15	7.1	14.9	18.5	7.0	16.5	18.5	4								
		2200	9.5	5.5	7.5	9.2	7.3	11	9.0	9.1	11	8.8	11.0	15	8.6	12.8	15	8.4	14.6	18.5	8.2	16.4	18.5	8.0	18.3	22	4								
		2400	10.6	6.0	7.5	10.3	8.0	11	10.0	10.0	11	9.8	12.0	15	9.6	14.1	18.5	9.4	16.1	18.5	9.2	18.1	22	9.0	20.1	30	2								
M4509	100	2600	11.6	6.6	7.5	11.3	8.8	11	11.1	11.0	15	10.8	13.2	15	10.6	15.3	18.5	10.4	17.5	22	10.2	19.7	22	10.1	21.9	30	2								
		2800	12.7	7.1	11	12.4	9.5	11	12.1	11.9	15	11.9	14.3	18.5	11.7	16.7	18.5	11.5	19.0	22	11.3	21.4	30	11.1	23.8	30	2								
		3000	13.7	7.7	11	13.4	10.3	15	13.1	12.9	15	12.9	15.4	18.5	12.7	18.0	22	12.5	20.6	30	12.3	23.2	30	12.1	25.7	30	2								
		3200	14.7	8.3	11	14.4	11.1	15	14.2	13.9	18.5	14.0	16.6	18.5	13.7	19.4	22	13.5	22.2	30	13.4	24.9	30	13.2	27.7	37	2								
		3400	15.8	8.9	11	15.5	11.9	15	15.2	14.9	18.5	15.0	17.8	22	14.8	20.8	30	14.6	23.8	30	14.4	26.8	30	14.2	29.7	37	2								
		3600	16.8	9.5	11	16.5	12.7	15	16.3	15.9	18.5	16.0	19.1	22	15.8	22.3	30	15.6	25.5	30	15.4	28.6	37	15.3	31.8	37	2								
		3800	17.8	10.2	15	17.6	13.6	18.5	17.3	17.0	22	17.1	20.4	30	16.9	23.8	30	16.7	27.2	30	16.5	30.6	37	16.3	34.0	45	2								
		4000	18.9	10.8	15	18.6	14.5	18.5	18.3	18.1	22	18.1	21.7	30	17.9	25.3	30	17.7	28.9	37	17.5	32.5	37	17.3	36.2	45	2								
		2000	11.4	6.6	7.5	11.0	8.8	11	10.7	11.0	15	10.4	13.2	15	10.1	15.4	18.5	9.9	17.6	22	9.6	19.8	22	9.4	22.0	30	4								
		2200	12.8	7.3	11	12.4	9.7	11	12.1	12.2	15	11.8	14.6	18.5	11.5	17.0	22	11.2	19.5	22	11.0	21.9	30	10.8	24.3	30	4								
		2400	14.2	8.0	11	13.8	10.7	15	13.4	13.4	15	13.2	16.0	18.5	12.9	18.7	22	12.6	21.4	30	12.4	24.1	30	12.2	26.7	30	2								
		2600	15.5	8.8	11	15.2	11.7	15	14.8	14.6	18.5	14.5	17.5	22	14.3	20.4	30	14.0	23.4	30	13.8	26.3	30	13.5	29.2	37	2								
		2800	16.9	9.5	11	16.5	12.7	15	16.2	15.9	18.5	15.9	19.0	22	15.6	22.2	30	15.4	25.4	30	15.1	28.5	37	14.9	31.7	37	2								
M4512	150	3000	18.3	10.3	15	17.9	13.7	18.5	17.6	17.1	22	17.3	20.6	30	17.0	24.0	30	16.8	27.4	37	16.5	30.8	37	16.3	34.3	45	2								
		3200	19.7	11.1	15	19.3	14.8	18.5	19.0	18.5	22	18.7	22.1	30	18.4	25.8	30	18.1	29.5	37	17.9	33.2	37	17.7	36.9	45	2								
		3400	21.1	11.9	15	20.7	15.8	18.5	20.4	19.8	22	20.1	23.8	30	19.8	27.7	37	19.5	31.7	37	19.3	35.6	45	19.1	39.6	45	2								
		3600	22.4	12.7	15	22.1	16.9	22	21.7	21.2	30	21.4	25.4	30	21.2	29.7	37	20.9	33.9	45	20.7	38.1	45	20.4	42.4	55	2								
		3800	23.8	13.6	15	23.5	18.1	22	23.1	22.6	30	22.8	27.1	30	22.5	31.7	37	22.3	36.2	45	22.1	40.7	45	21.8	45.2	55	2								
		4000	25.2	14.4	18.5	24.8	19.3	22	24.5	24.1	30	24.2	28.9	37	23.9	33.7	45	23.7	38.5	45	23.4	43.3	55	23.2	48.1	55	2								
		1500	12.6	8.1	11	12.0	10.8	15	11.4	13.5	15	11.0	16.2	18.5	10.5	18.9	22	10.1	21.6	30	9.8	24.3	30	9.4	27.0	30	4								
		1700	14.7	9.3	11	14.2	12.5	15	13.6	15.6	18.5	13.2	18.7	22	12.7	21.8	30	12.3	24.9	30	11.9	28.0	37	11.6	31.2	37	4								
		1900	16.9	10.7	15	16.3	14.2	18.5	15.8	17.8	22	15.3	21.3	30	14.9	24.9	30	14.5	28.4	37	14.1	32.0	37	13.8	35.5	45	4								
M6010	125	2100	19.1	12.0	15	18.5	16.1	18.5	18.0	20.1	30	17.5	24.1	30	17.1	28.1	37	16.7	32.1	37	16.3	36.1	45	15.9	40.1	45	4								
		2300	21.3	13.5	18.5	20.7	18.0	22	20.2	22.5	30	19.7	27.0	30	19.3	31.5	37	18.9	36.0	45	18.5	40.5	45	18.1	45.0	55	2								
		2500	23.5	15.1	18.5	22.9	20.1	30	22.4	25.1	30	21.9	30.1	37	21.5	35.1	45	21.1	40.1	45	20.7	45.2	55	20.3	50.2	75	2								
		2700	25.7	16.7	18.5	25.1	22.3	30	24.6	27.8	37	24.1	33.4	45	23.7	38.9	45	23.2	44.5	55	22.9	50.1	75	22.5	55.6	75	2								
		2900	27.9	18.4	22	27.3	24.6	30	26.7	30.7	37	26.3	36.9	45	25.8	43.0	55	25.4	49.2	55	25.1	55.3	75	24.7	61.4	75	2								
		3000	29.0	19.3	22	28.4	25.8	30	27.8	32.2	37	27.4	38.7	45	26.9	45.1	55	26.5	51.6	75	26.1	58.0	75	25.8	64.5	75	2								

Performance based on inlet air at standard conditions; Pressure of 101.325 kPa, Temperature of 20°C.

Pressure Performance (2)

Model	Bore	RPM	Inlet Flow Qs (m³/min), Shaft Power La (kW) and Motor Power Po (kW)																								Motor Pole							
			29.4kPa				39.2 kPa				49 kPa				58.8 kPa				68.6 kPa				78.4 kPa					88.2 kPa				98 kPa		
			Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po		
M6016	150	1500	19.5	12.3	15	18.6	16.4	18.5	17.9	20.5	30	17.2	24.6	30	16.6	28.7	37	16.0	32.8	37	15.4	37.0	45	14.9	41.1	55	4							
		1700	22.8	14.2	18.5	21.9	19.0	22	21.2	23.7	30	20.5	28.4	37	19.9	33.2	37	19.3	37.9	45	18.8	42.6	55	18.3	47.4	55	4							
		1900	26.1	16.2	18.5	25.3	21.6	30	24.5	27.0	30	23.8	32.4	37	23.2	37.8	45	22.6	43.2	55	22.1	48.6	55	21.6	54.0	75	4							
		2100	29.5	18.3	22	28.6	24.4	30	27.9	30.5	37	27.2	36.6	45	26.6	42.7	55	26.0	48.8	55	25.4	54.9	75	24.9	61.0	75	4							
		2300	32.8	20.5	30	31.9	27.4	37	31.2	34.2	45	30.5	41.0	55	29.9	47.9	55	29.3	54.7	75	28.8	61.6	75	28.2	68.4	90	2							
		2500	36.1	22.9	30	35.3	30.5	37	34.5	38.1	45	33.8	45.7	55	33.2	53.3	75	32.6	61.0	75	32.1	68.6	90	31.6	76.2	90	2							
		2700	39.4	25.3	30	38.6	33.8	45	37.8	42.2	55	37.2	50.7	75	36.5	59.1	75	36.0	67.6	75	35.4	76.0	90	34.9	84.5	110	2							
		2900	42.8	28.0	37	41.9	37.3	45	41.2	46.6	55	40.5	56.0	75	39.9	65.3	75	39.3	74.6	90	38.7	83.9	110	38.2	93.3	110	2							
		3000	44.4	29.4	37	43.6	39.1	45	42.8	48.9	55	42.2	58.7	75	41.5	68.5	90	41.0	78.3	90	40.4	88.1	110	39.9	97.9	110	2							
		M8021	200	1000	27.8	18.0	22	26.4	24.0	30	25.2	30.0	37	24.0	36.0	45	23.0	42.0	55	22.0	48.0	55	21.1	54.0	75	20.3	60.0	75	4					
				1100	31.5	20.0	30	30.1	26.7	30	28.9	33.3	37	27.7	40.0	45	26.7	46.7	55	25.7	53.3	75	24.8	60.0	75	24.0	66.7	75	4					
				1200	35.2	22.1	30	33.8	29.4	37	32.6	36.8	45	31.4	44.1	55	30.4	51.5	75	29.4	58.8	75	28.5	66.2	75	27.7	73.6	90	4					
1300	38.9			24.2	30	37.5	32.3	37	36.3	40.3	45	35.1	48.4	55	34.1	56.5	75	33.1	64.5	75	32.2	72.6	90	31.4	80.7	90	4							
1400	42.6			26.4	30	41.2	35.2	45	40.0	44.0	55	38.8	52.8	75	37.8	61.6	75	36.8	70.4	90	35.9	79.2	90	35.1	88.0	110	4							
1500	46.3			28.7	37	44.9	38.2	45	43.7	47.8	55	42.5	57.4	75	41.5	66.9	75	40.5	76.5	90	39.6	86.1	110	38.8	95.6	110	4							
1600	50.0			31.0	37	48.6	41.4	55	47.4	51.7	75	46.2	62.1	75	45.2	72.4	90	44.2	82.8	110	43.3	93.1	110	42.5	103.5	132	4							
1700	53.7			33.5	45	52.3	44.7	55	51.1	55.8	75	49.9	67.0	75	48.9	78.2	90	47.9	89.3	110	47.0	100.5	110	46.2	111.7	132	4							
1800	57.4			36.0	45	56.0	48.1	55	54.8	60.1	75	53.6	72.1	90	52.6	84.1	110	51.6	96.1	110	50.7	108.1	132	49.8	120.1	160	4							
1900	61.1			38.7	45	59.7	51.6	75	58.4	64.5	75	57.3	77.4	90	56.3	90.3	110	55.3	103.1	132	54.4	116.0	132	53.5	128.9	160	4							
2000	64.8			41.4	55	63.4	55.2	75	62.1	69.0	90	61.0	82.8	110	60.0	96.7	110	59.0	110.5	132	58.1	124.3	160	57.2	138.1	160	4							
M8026	250			1000	34.9	22.2	30	33.2	29.6	37	31.8	37.0	45	30.4	44.3	55	29.2	51.7	75	28.0	59.1	75	27.0	66.5	75	25.9	73.9	90	4					
		1100	39.5	24.6	30	37.8	32.8	37	36.3	41.0	55	35.0	49.2	55	33.8	57.5	75	32.6	65.7	75	31.5	73.9	90	30.5	82.1	110	4							
		1200	44.1	27.1	30	42.4	36.2	45	40.9	45.2	55	39.6	54.3	75	38.3	63.3	75	37.2	72.4	90	36.1	81.4	90	35.1	90.5	110	4							
		1300	48.7	29.7	37	47.0	39.6	45	45.5	49.6	55	44.2	59.5	75	42.9	69.4	90	41.8	79.3	90	40.7	89.2	110	39.7	99.1	110	4							
		1400	53.2	32.4	37	51.6	43.2	55	50.1	54.0	75	48.7	64.8	75	47.5	75.6	90	46.4	86.4	110	45.3	97.2	110	44.3	108.0	132	4							
		1500	57.8	35.2	45	56.1	46.9	55	54.7	58.6	75	53.3	70.3	90	52.1	82.1	110	50.9	93.8	110	49.9	105.5	132	48.8	117.2	132	4							
		1600	62.4	38.0	45	60.7	50.7	75	59.2	63.4	75	57.9	76.0	90	56.7	88.7	110	55.5	101.4	132	54.4	114.1	132	53.4	126.7	160	4							
		1700	67.0	41.0	55	65.3	54.6	75	63.8	68.3	90	62.5	81.9	90	61.2	95.6	110	60.1	109.2	132	59.0	122.9	160	58.0	136.6	160	4							
		1800	71.6	44.0	55	69.9	58.7	75	68.4	73.4	90	67.1	88.0	110	65.8	102.7	132	64.7	117.4	132	63.6	132.1	160	62.6	146.7	185	4							
		1900	76.1	47.2	55	74.5	62.9	75	73.0	78.6	90	71.6	94.4	110	70.4	110.1	132	69.3	125.8	160	68.2	141.5	160	67.2	157.3	185	4							
		2000	80.7	50.5	75	79.0	67.3	75	77.5	84.1	110	76.2	100.9	110	75.0	117.7	132	73.8	134.6	160	72.8	151.4	185	71.7	168.2	185	4							
		M8032	300	1000	43.5	27.2	30	41.6	36.2	45	39.8	45.3	55	38.2	54.3	75	36.8	63.4	75	35.4	72.4	90							4					
1100	49.2			30.1	37	47.2	40.2	45	45.5	50.2	75	43.9	60.3	75	42.4	70.3	90	41.1	80.4	90							4							
1200	54.8			33.2	37	52.8	44.3	55	51.1	55.3	75	49.5	66.4	75	48.1	77.4	90	46.7	88.5	110							4							
1300	60.5			36.3	45	58.5	48.4	55	56.7	60.5	75	55.2	72.6	90	53.7	84.8	110	52.4	96.9	110								4						
1400	66.1			39.5	45	64.1	52.7	75	62.4	65.9	75	60.8	79.1	90	59.3	92.3	110	58.0	105.5	132								4						
1500	71.7			42.9	55	69.7	57.1	75	68.0	71.4	90	66.4	85.7	110	65.0	100.0	110	63.6	114.3	132								4						
1600	77.4			46.3	55	75.4	61.7	75	73.6	77.1	90	72.1	92.6	110	70.6	108.0	132	69.3	123.4	160								4						
1700	83.0			49.8	55	81.0	66.4	75	79.3	83.0	110	77.7	99.6	110	76.2	116.2	132	74.9	132.8	160								4						
1800	88.6			53.5	75	86.6	71.3	90	84.9	89.1	110	83.3	106.9	132	81.9	124.7	160	80.5	142.5	160								4						
1900	94.3			57.2	75	92.3	76.3	90	90.5	95.4	110	89.0	114.4	132	87.5	133.5	160	86.2	152.6	185								4						
2000	99.9			61.1	75	97.9	81.5	90	96.2	101.9	132	94.6	122.2	160	93.1	142.6	160	91.8	163.0	185								4						

Performance based on inlet air at standard conditions: Pressure of 101.325 kPa, Temperature of 20°C.

Vacuum Performance (1)

Model	Bore	RPM	Inlet Flow Qs(m³/min), Shaft Power La(kW)and Motor Power Po (kW)															Motor Pole
			-9.8 kPa			-19.6 kPa			-29.4 kPa			-39.2 kPa			-49 kPa			
			Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	
M4506V	80	2000	6.1	1.1	1.5	5.7	2.3	3	5.4	3.4	4	5.0	4.5	5.5	4.6	5.7	7.5	4
		2200	6.8	1.3	1.5	6.4	2.5	3	6.1	3.8	5.5	5.7	5.0	5.5	5.3	6.3	7.5	4
		2400	7.5	1.4	2.2	7.1	2.8	4	6.7	4.1	5.5	6.4	5.5	7.5	6.0	6.9	11	2
		2600	8.2	1.5	2.2	7.8	3.0	4	7.4	4.5	5.5	7.1	6.0	7.5	6.6	7.5	11	2
		2800	8.9	1.6	2.2	8.5	3.3	4	8.1	4.9	5.5	7.7	6.5	7.5	7.3	8.2	11	2
		3000	9.5	1.8	2.2	9.2	3.5	4	8.8	5.3	7.5	8.4	7.1	11	8.0	8.8	11	2
		3200	10.2	1.9	2.2	9.8	3.8	5.5	9.5	5.7	7.5	9.1	7.6	11	8.7	9.5	11	2
		3400	10.9	2.0	2.2	10.5	4.1	5.5	10.2	6.1	7.5	9.8	8.2	11	9.4	10.2	15	2
		3600	11.6	2.2	3	11.2	4.4	5.5	10.9	6.6	7.5	10.5	8.7	11	10.1	10.9	15	2
		3800	12.3	2.3	3	11.9	4.7	5.5	11.6	7.0	11	11.2	9.3	11	10.8	11.7	15	2
		4000	13.0	2.5	3	12.6	5.0	5.5	12.2	7.5	11	11.9	9.9	11	11.5	12.4	15	2
M4509V	100	2000	9.2	1.7	2.2	8.7	3.4	4	8.2	5.1	7.5	7.6	6.8	7.5	7.0	8.5	11	4
		2200	10.3	1.9	2.2	9.7	3.8	5.5	9.2	5.7	7.5	8.7	7.6	11	8.0	9.5	11	4
		2400	11.3	2.1	3	10.7	4.2	5.5	10.2	6.2	7.5	9.7	8.3	11	9.1	10.4	15	2
		2600	12.4	2.3	3	11.8	4.5	5.5	11.3	6.8	7.5	10.7	9.1	11	10.1	11.4	15	2
		2800	13.4	2.5	3	12.8	4.9	5.5	12.3	7.4	11	11.8	9.9	11	11.2	12.3	15	2
		3000	14.4	2.7	3	13.9	5.3	7.5	13.3	8.0	11	12.8	10.7	15	12.2	13.3	15	2
		3200	15.5	2.9	4	14.9	5.7	7.5	14.4	8.6	11	13.8	11.5	15	13.2	14.4	18.5	2
		3400	16.5	3.1	4	15.9	6.2	7.5	15.4	9.2	11	14.9	12.3	15	14.3	15.4	18.5	2
		3600	17.5	3.3	4	17.0	6.6	7.5	16.5	9.9	11	15.9	13.2	15	15.3	16.5	18.5	2
		3800	18.6	3.5	4	18.0	7.0	11	17.5	10.6	15	17.0	14.1	18.5	16.3	17.6	22	2
		4000	19.6	3.7	5.5	19.0	7.5	11	18.5	11.2	15	18.0	15.0	18.5	17.4	18.7	22	2
M4512V	150	2000	12.3	2.3	3	11.6	4.6	5.5	10.9	6.8	7.5	10.2	9.1	11	9.5	11.4	15	4
		2200	13.7	2.5	3	13.0	5.0	7.5	12.3	7.6	11	11.6	10.1	15	10.8	12.6	15	4
		2400	15.1	2.8	4	14.4	5.5	7.5	13.7	8.3	11	13.0	11.1	15	12.2	13.9	18.5	2
		2600	16.5	3.0	4	15.8	6.0	7.5	15.1	9.1	11	14.4	12.1	15	13.6	15.1	18.5	2
		2800	17.9	3.3	4	17.1	6.6	7.5	16.5	9.9	11	15.8	13.1	15	15.0	16.4	18.5	2
		3000	19.3	3.6	4	18.5	7.1	11	17.8	10.7	15	17.1	14.2	18.5	16.4	17.8	22	2
		3200	20.6	3.8	5.5	19.9	7.6	11	19.2	11.5	15	18.5	15.3	18.5	17.8	19.1	22	2
		3400	22.0	4.1	5.5	21.3	8.2	11	20.6	12.3	15	19.9	16.4	18.5	19.1	20.5	30	2
		3600	23.4	4.4	5.5	22.7	8.8	11	22.0	13.2	15	21.3	17.6	22	20.5	22.0	30	2
		3800	24.8	4.7	5.5	24.0	9.4	11	23.4	14.1	18.5	22.7	18.7	22	21.9	23.4	30	2
		4000	26.2	5.0	7.5	25.4	10.0	15	24.8	15.0	18.5	24.1	20.0	22	23.3	24.9	30	2
M6010V	125	1500	14.1	2.8	4	12.9	5.6	7.5	11.8	8.4	11	10.7	11.2	15	9.5	14.0	18.5	4
		1700	16.3	3.2	4	15.1	6.5	7.5	14.0	9.7	11	12.9	12.9	15	11.7	16.1	18.5	4
		1900	18.4	3.7	5.5	17.3	7.4	11	16.2	11.0	15	15.1	14.7	18.5	13.9	18.4	22	4
		2100	20.6	4.2	5.5	19.5	8.3	11	18.4	12.5	15	17.3	16.6	18.5	16.1	20.8	30	4
		2300	22.8	4.7	5.5	21.7	9.3	11	20.6	14.0	18.5	19.5	18.7	22	18.3	23.3	30	2
		2500	25.0	5.2	7.5	23.8	10.4	15	22.8	15.6	18.5	21.7	20.8	30	20.4	26.0	30	2
		2700	27.2	5.8	7.5	26.0	11.5	15	25.0	17.3	22	23.9	23.1	30	22.6	28.8	37	2
		2900	29.4	6.4	7.5	28.2	12.7	15	27.1	19.1	22	26.0	25.5	30	24.8	31.8	37	2
		3000	30.5	6.7	7.5	29.3	13.4	15	28.2	20.0	22	27.1	26.7	30	25.9	33.4	37	2

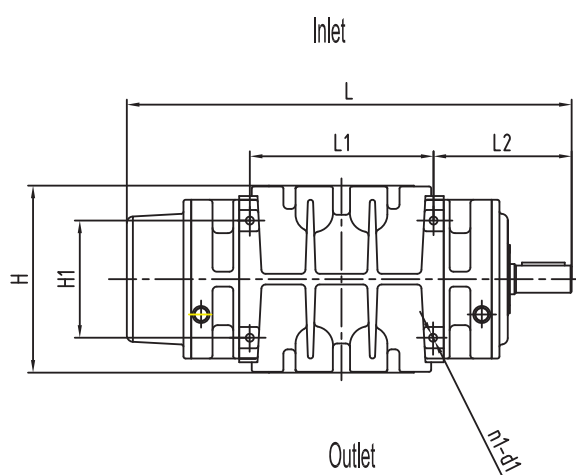
Performance based on air at standard conditions: Inlet temperature of 20°C, Outlet pressure of 101.325 kPa.

Vacuum Performance (2)

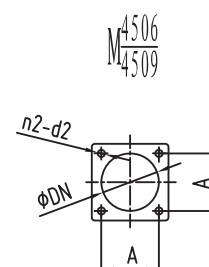
Model	Bore	RPM	Inlet Flow Qs(m³/min), Shaft Power La(kW)and Motor Power Po (kW)															Motor Pole
			-9.8 kPa			-19.6 kPa			-29.4 kPa			-39.2 kPa			-49 kPa			
			Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	
M6016V	150	1500	21.6	4.3	5.5	20.0	8.5	11	18.4	12.8	15	16.9	17.0	22	15.1	21.3	30	4
		1700	25.0	4.9	5.5	23.3	9.8	11	21.8	14.7	18.5	20.2	19.6	22	18.4	24.5	30	4
		1900	28.3	5.6	7.5	26.6	11.2	15	25.1	16.8	22	23.5	22.4	30	21.7	28.0	37	4
		2100	31.6	6.3	7.5	30.0	12.6	15	28.4	19.0	22	26.8	25.3	30	25.1	31.6	37	4
		2300	34.9	7.1	11	33.3	14.2	18.5	31.8	21.3	30	30.2	28.3	37	28.4	35.4	45	2
		2500	38.3	7.9	11	36.6	15.8	18.5	35.1	23.7	30	33.5	31.6	37	31.7	39.5	45	2
		2700	41.6	8.8	11	39.9	17.5	22	38.4	26.3	30	36.8	35.0	45	35.1	43.8	55	2
		2900	44.9	9.7	11	43.3	19.3	22	41.7	29.0	37	40.2	38.7	45	38.4	48.3	55	2
		3000	46.6	10.1	15	44.9	20.3	30	43.4	30.4	37	41.8	40.6	45	40.1	50.7	75	2
M8021V	200	1000	31.4	6.2	7.5	28.7	12.4	15	26.1	18.6	22	23.5	24.9	30	20.5	31.1	37	4
		1100	35.1	6.9	11	32.4	13.8	18.5	29.8	20.7	30	27.2	27.6	30	24.2	34.5	45	4
		1200	38.8	7.6	11	36.1	15.2	18.5	33.5	22.9	30	30.9	30.5	37	27.9	38.1	45	4
		1300	42.5	8.4	11	39.8	16.7	18.5	37.2	25.1	30	34.6	33.4	37	31.6	41.8	55	4
		1400	46.2	9.1	11	43.5	18.2	22	40.9	27.4	30	38.3	36.5	45	35.3	45.6	55	4
		1500	49.9	9.9	11	47.2	19.8	22	44.6	29.7	37	42.0	39.6	45	39.0	49.5	55	4
		1600	53.6	10.7	15	50.9	21.4	30	48.3	32.2	37	45.7	42.9	55	42.7	53.6	75	4
		1700	57.3	11.6	15	54.6	23.1	30	52.0	34.7	45	49.4	46.3	55	46.4	57.9	75	4
		1800	61.0	12.4	15	58.3	24.9	30	55.7	37.3	45	53.1	49.8	55	50.1	62.2	75	4
		1900	64.7	13.4	15	61.9	26.7	30	59.4	40.1	45	56.8	53.4	75	53.8	66.8	75	4
		2000	68.4	14.3	18.5	65.6	28.6	37	63.1	42.9	55	60.5	57.2	75	57.5	71.5	90	4
M8026V	250	1000	39.2	7.7	11	35.9	15.3	18.5	32.9	23.0	30	29.8	30.6	37	26.3	38.3	45	4
		1100	43.8	8.5	11	40.5	17.0	22	37.5	25.5	30	34.3	34.0	45	30.8	42.5	55	4
		1200	48.3	9.4	11	45.1	18.8	22	42.0	28.1	37	38.9	37.5	45	35.4	46.9	55	4
		1300	52.9	10.3	15	49.6	20.5	30	46.6	30.8	37	43.5	41.1	45	40.0	51.4	75	4
		1400	57.5	11.2	15	54.2	22.4	30	51.2	33.6	37	48.1	44.8	55	44.6	56.0	75	4
		1500	62.1	12.1	15	58.8	24.3	30	55.8	36.4	45	52.7	48.6	55	49.2	60.7	75	4
		1600	66.7	13.1	15	63.4	26.3	30	60.4	39.4	45	57.2	52.5	75	53.7	65.7	75	4
		1700	71.2	14.2	18.5	68.0	28.3	37	64.9	42.5	55	61.8	56.6	75	58.3	70.8	90	4
		1800	75.8	15.2	18.5	72.5	30.4	37	69.5	45.6	55	66.4	60.8	75	62.9	76.0	90	4
		1900	80.4	16.3	18.5	77.1	32.6	37	74.1	48.9	55	71.0	65.2	75	67.5	81.5	90	4
		2000	85.0	17.4	22	81.7	34.9	45	78.7	52.3	75	75.6	69.7	90	72.1	87.1	110	4
M8032V	300	1000	48.6	9.4	11	44.7	18.8	22	41.2	28.1	37	37.5	37.5	45	33.4	46.9	55	4
		1100	54.2	10.4	15	50.3	20.8	30	46.8	31.2	37	43.1	41.6	55	39.0	52.0	75	4
		1200	59.8	11.5	15	56.0	22.9	30	52.4	34.4	45	48.7	45.9	55	44.6	57.3	75	4
		1300	65.5	12.5	15	61.6	25.1	30	58.1	37.6	45	54.4	50.2	75	50.3	62.7	75	4
		1400	71.1	13.7	18.5	67.2	27.3	30	63.7	41.0	45	60.0	54.6	75	55.9	68.3	90	4
		1500	76.7	14.8	18.5	72.9	29.6	37	69.3	44.4	55	65.7	59.2	75	61.5	74.0	90	4
		1600	82.4	16.0	18.5	78.5	32.0	37	75.0	48.0	55	71.3	63.9	75	67.2	79.9	90	4
		1700	88.0	17.2	22	84.2	34.4	45	80.6	51.6	75	76.9	68.8	75	72.8	86.0	110	4
		1800	93.6	18.5	22	89.8	36.9	45	86.2	55.4	75	82.6	73.9	90	78.4	92.3	110	4
		1900	99.3	19.8	22	95.4	39.5	45	91.9	59.3	75	88.2	79.1	90	84.1	98.8	110	4
		2000	104.9	21.1	30	101.1	42.2	55	97.5	63.3	75	93.8	84.4	110	89.7	105.5	132	4

Performance based on air at standard conditions: Inlet temperature of 20°C, Outlet pressure of 101.325 kPa.

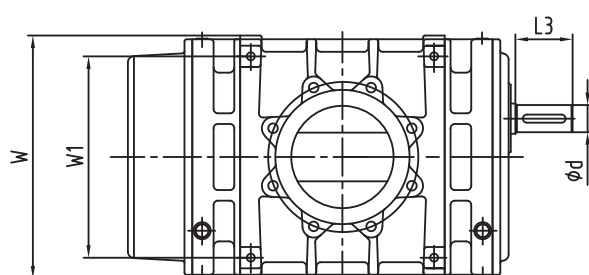
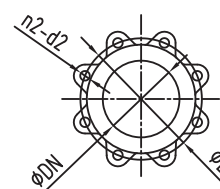
Outline Drawing



Inlet & Outlet Flange Size

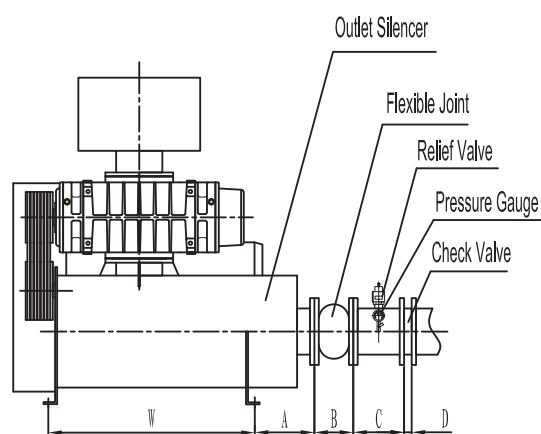
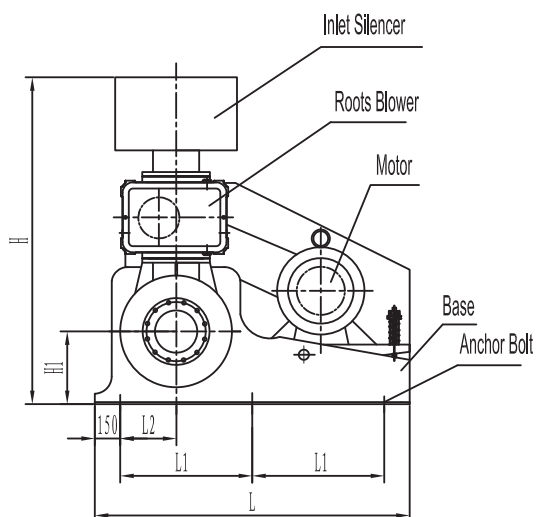


M4506 / M4509
M4512 / M6010 / M6016 / M8021 / M8026 / M8032

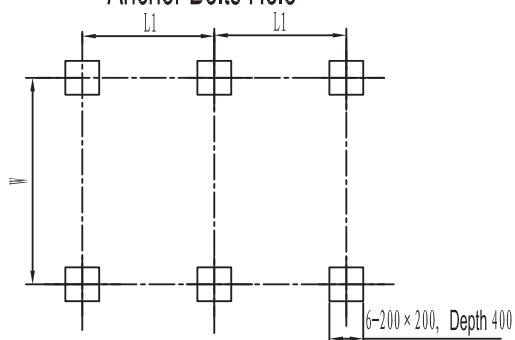


Model	L	L1	L2	L3	H	H1	W	W1	d	n1	d1	n2	d2	A	B	D _N	Weight
M4506	510	120	206	92	247	175	362	300	42	16	M12	4	M12	114		80	117kg
M4509	586	197												130		100	137kg
M4512	662	273			279						273	121	371	232	482	400	58
M6010	743	225	M16	8	M16	210	125	305kg									
M6016	883	370				M20	240	150	360kg								
M8021	1155	490	359	165	489		305	632	524								
M8026	1283	620									350	250	790kg				
M8032	1435	772				400					300	900kg					

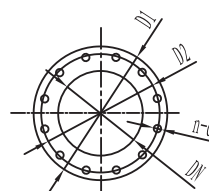
Dimension Drawing of Blower Complete Unit



Arrangement Drawing of
Anchor Bolts Hole

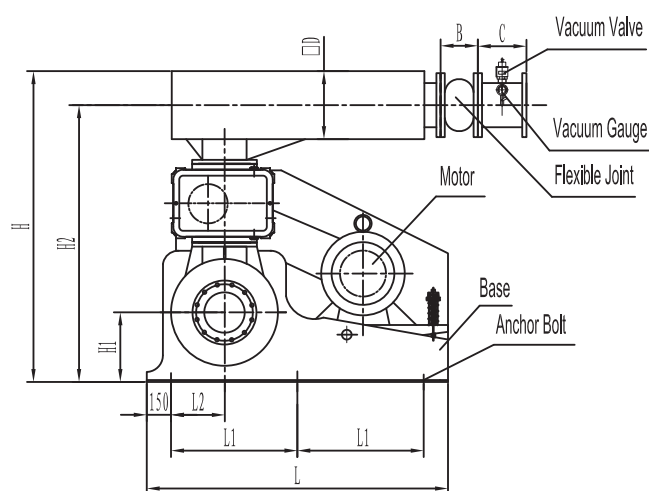


Outlet Flange Size

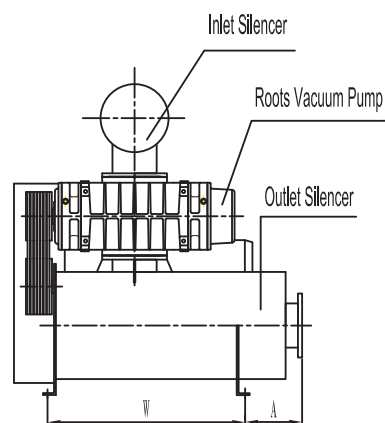
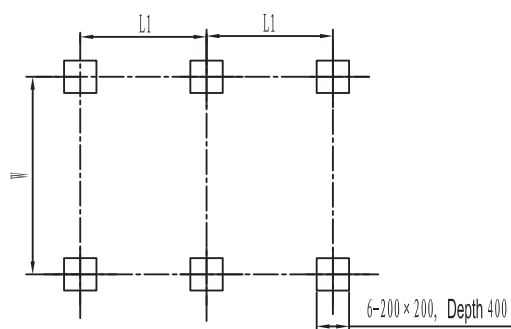


Model	H	H1	L	L1	L2	W	A	B	C	D	D1	D2	DN	n	d	Max. Wt.
M4506	1205	300	1200	450	200	610	210	135	210	19	200	160	80	8	18	660kg
M4509	1265	330	1300	500	230	690	230	150	240	19	220	180	100			710kg
M4512	1362	350	1400	550	250	770	250	180	270	24	285	240	150		22	800kg
M6010	1593	350	1500	600	250	840	265	165	240	21	250	210	125		18	1270kg
M6016	1692	380	1600	650	280	1010	305	180	270	24	285	240	150		22	1700kg
M8021	1875	400	1760	730	300	1200	340	190	300	29	340	295	200			2400kg
M8026	1935	430	1860	780	330	1220	350	230	300	30	395	350	250			2600kg
M8032	1975	450	1960	830	350	1240	360	245	300	40	445	400	300	12		3000kg

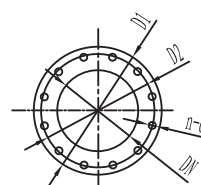
Dimension Drawing of Vacuum Pump Complete Unit



Arrangement Drawing of
Anchor Bolts Hole

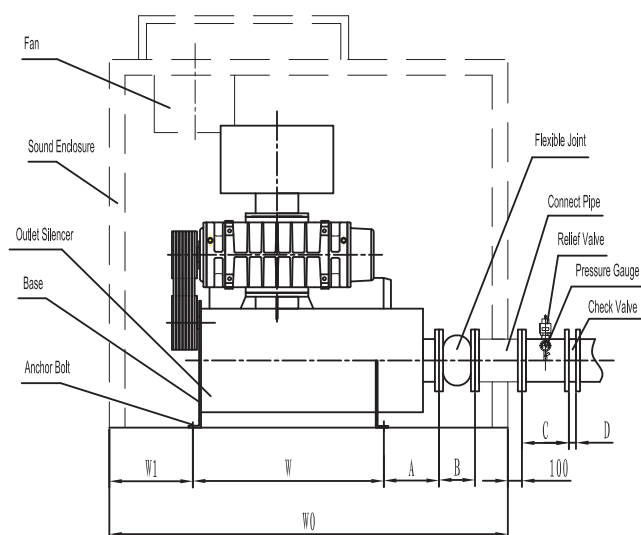
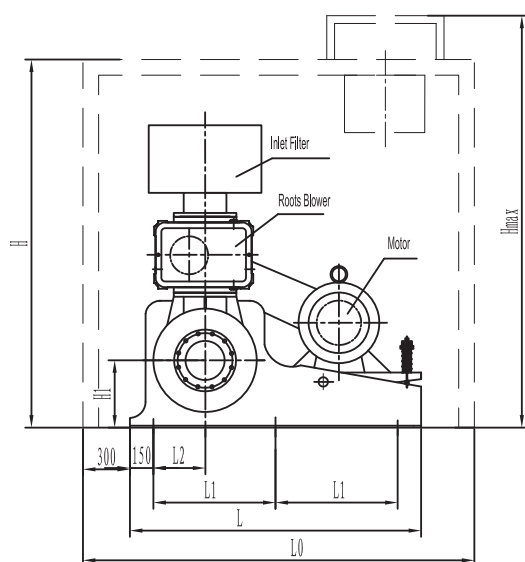


Inlet & Outlet Flange Size

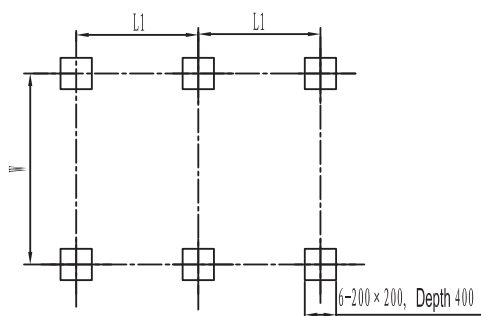


Model	H	H1	H2	L	L1	L2	W	A	B	C	D	D1	D2	DN	n	d	Max. Wt.
M4506	1171	300	1061	1200	450	200	610	210	135	210	220	200	160	80	8	18	660kg
M4509	1251	330	1131	1300	500	230	690	230	150	240	240	220	180	100			710kg
M4512	1408	350	1258	1400	550	250	770	250	180	270	300	285	240	150		22	800kg
M6010	1480	350	1340	1500	600	250	840	265	165	240	280	250	210	125		18	1270kg
M6016	1560	380	1410	1600	650	280	1010	305	180	270	300	285	240	150		22	1700kg
M8021	1783	400	1613	1760	730	300	1200	340	190	300	340	340	295	200			2400kg
M8026	1923	430	1713	1860	780	330	1220	350	230	300	420	395	350	250	12		2600kg
M8032	1983	450	1763	1960	830	350	1240	360	245	300	440	445	400	300			3000kg

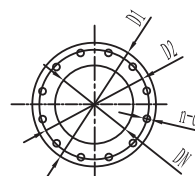
Dimension Drawing of Blower Complete Unit With Sound Enclosure



Arrangement Drawing of
Anchor Bolts Hole



Outlet Flange Size



Model	H	Hmax	H1	L0	L	L1	L2	W0	W	W1	A	B	C	D	D1	D2	DN	n	d	Max. Wt. (kg)	Sound Encl. Wt. (kg)
M4506	1405	1515	300	1800	1200	450	200	1455	610	300	210	135	210	19	200	160	80	8	18	660	500
M4509	1665	1815	330	1900	1300	500	230	1570	690		230	150	240	19	220	180	100			710	600
M4512	1762	2012	350	2000	1400	550	250	1700	770		250	180	270	24	285	240	150		22	800	700
M6010	1993	2243	350	2100	1500	600	250	1870	840	400	265	165	240	21	250	210	125	8	18	1270	800
M6016	2092	2342	380	2200	1600	650	280	2095	1010		305	180	270	24	285	240	150		22	1700	900
M8021	2275	2625	400	2360	1760	730	300	2430	1200	500	340	190	300	29	340	295	200			2400	1000
M8026	2335	2685	430	2460	1860	780	330	2500	1220		350	230	300	30	395	350	250	12	22	2600	1100
M8032	2375	2725	450	2560	1960	830	350	2545	1240		360	245	300	40	445	400	300			3000	1200



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