

MSR / ML SERIES ROOTS BLOWERS

TECHNICAL SELECTION CATALOG

MSR Standard Three-Lobe Series

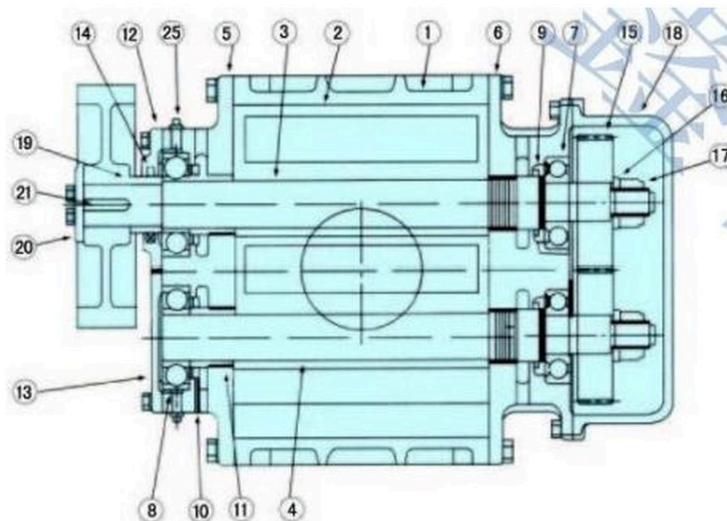
MSR-H High-Pressure Series

MSR-V Vacuum Roots Pump Series

ML Large Two-Lobe Roots Series

MSR-MJ Compact Package Units

Acoustic Silencing Enclosures



1. PERFORMANCE TABLE INSTRUCTIONS & SELECTION FORMULAS

The performance table indicates the relationship between blower model, bore size, speed, discharge pressure, airflow rate, and required motor power.

1. Standard Airflow Condition (Qs): Airflow in performance tables is under standard inlet condition (Temp: 20°C, Absolute Pressure: 101.3 kPa, RH: 65%).

2. Normal Airflow Condition (Qn): Airflow under normal condition (Temp: 0°C, Absolute Pressure: 101.3 kPa) is expressed in Nm³/min. Converted by:

$$Q_s = Q_n \times 1.0732$$

(where Qs: Standard Airflow in m³/min, Qn: Normal Airflow in Nm³/min)

3. Discharge State Airflow Conversion: To convert discharge state airflow (Q) to standard inlet airflow (Qs):

$$Q_s = Q \times [(1.0332 + P_d) / 1.0332] \times [(273 + t_1) / (273 + t_2)]$$

(where Q: Discharge airflow m³/min, Pd: Discharge pressure kgf/cm², t1: Inlet temp °C, t2: Discharge temp °C)

4. Model Selection: Determine model, bore size, speed and power from calculated airflow and discharge pressure.

5. Motor Power Color Legend: Different motor output powers are indicated by distinct background colors in performance tables.

6. Overlapping Selection Range: For economy, select smaller blowers; for lower noise and longer life, select larger blowers.

2. MSR SERIES ROOTS BLOWER FEATURES & ADVANTAGES

1. Low Noise & Low Vibration

Three-lobe rotor design combined with helical casing air-inlet/outlet structure significantly reduces pulsation, mechanical noise and vibration.

2. High Precision & Durability

CNC precision machining ensures micro-level rotor clearance, zero internal contact, and consistent aerodynamic performance.

3. High Efficiency & Low Power Consumption

Advanced composite rotor profile minimizes internal leakage and dramatically improves volumetric efficiency across wide pressure ranges.

4. Stable & Constant Air Delivery

Discharge volume varies minimally with discharge pressure fluctuations, ensuring stable continuous airflow for process systems.

5. Clean, 100% Oil-Free Air

Specialized labyrinth oil seal and isolation chamber prevent lubricating oil from entering the casing, delivering completely oil-free air.

6. Long Service Life

Equipped with heavy-duty precision bearings and alloy steel carburized timing gears for superior reliability and extended service intervals.

7. Comprehensive Range & Easy Selection

Extensive model range with dense parameter steps allows optimal sizing and minimizes initial and operating costs.

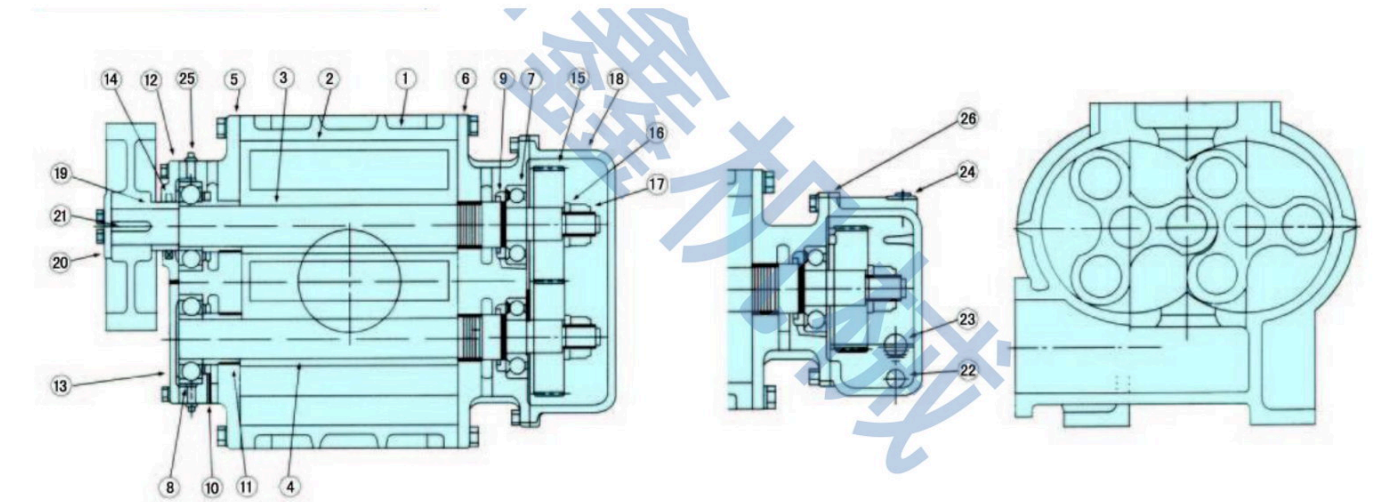
3. PRESSURE UNIT CONVERSION TABLE

Pressure Unit	Pa (N/m²)	kPa	bar	kgf/cm²	mmH2O (at 4°C)	mmHg (Torr)	atm
1 Pa	1	1 × 10 ⁻³	1 × 10 ⁻⁵	1.01972 × 10 ⁻⁵	0.101972	7.50062 × 10 ⁻³	9.86923 × 10 ⁻⁸
1 kPa	1 × 10³	1	0.01	0.0101972	101.972	7.50062	9.86923 × 10 ⁻³
1 bar	1 × 10⁵	100	1	1.01972	1.01972 × 10⁴	750.062	0.986923
1 kgf/cm²	9.80665 × 10⁴	98.0665	0.980665	1	1.00000 × 10⁴	735.559	0.967841
1 mmH2O	9.80665	9.80665 × 10 ⁻³	9.80665 × 10 ⁻⁵	1 × 10 ⁻⁴	1	0.073556	9.67841 × 10 ⁻⁵
1 mmHg	133.322	0.133322	1.33322 × 10 ⁻³	1.35951 × 10 ⁻³	13.5951	1	1.31579 × 10 ⁻³
1 atm	1.01325 × 10⁵	101.325	1.01325	1.03323	1.03323 × 10⁴	760.000	1

MSR Series Roots Blower Construction & Parts List

Structural Engineering Diagram

Cross-Sectional Construction Diagram



MSR SERIES STANDARD PARTS & MATERIAL SPECIFICATION LIST									
NO	Part Name	Material	Qty	NO	Part Name	Material	Qty		
01	Casing	HT250 / Cast Iron	1	11	Driven Timing Gear	20CrMnTi Alloy Steel (SCM415)	1		
02	Drive Rotor (Impeller)	HT250 / Cast Iron	1	12	Gear Oil Tank / Housing	HT250 / Cast Iron	1		
03	Driven Rotor (Impeller)	HT250 / Cast Iron	1	13	Oil Splash Ring / Slinger	45# Carbon Steel (S45C)	2		
04	Drive Shaft	45# Carbon Steel (S45C)	1	14	Oil Seal	NBR / Fluoroelastomer	4		
05	Driven Shaft	45# Carbon Steel (S45C)	1	15	Bearing Retainer / Cap	HT250 / Cast Iron	2		
06	Drive End Side Plate	HT250 / Cast Iron	1	16	Shaft End V-Ring Seal	NBR Rubber	1		
07	Gear End Side Plate	HT250 / Cast Iron	1	17	Oil Level Gauge / Sight Glass	Assembly	1		
08	Drive End Bearing	High Carbon Bearing Steel (SUJ2)	2	18	Oil Drain Plug	45# Carbon Steel (S45C)	2		
09	Gear End Bearing	High Carbon Bearing Steel (SUJ2)	2	19	Breather / Vent Plug	Assembly	1		
10	Drive Timing Gear	20CrMnTi Alloy Steel (SCM415)	1	20	Fastening Bolts & Studs	Grade 8.8 High Tensile Steel	Set		

MSR Series Standard Performance Table (Part 1)

Models: MSR-50 ~ MSR-100

QS: Inlet Condition Airflow Rate (m³/min) | La: Required Shaft Power (kW)

1.1kW

1.5kW

2.2kW

3.0kW

4.0kW

5.5kW

7.5kW

11kW

15kW

18.5kW

22kW

30kW

37kW

45kW

Type / Model			Bore (mm)	Speed (rpm)	Discharge		Pressure (kgf/cm²)		0.20		0.25		0.30		0.35		0.40		0.45		0.50		0.60	
					9.8 kPa		14.7 kPa		19.6 kPa		24.5 kPa		29.4 kPa		34.3 kPa		39.2 kPa		44.1 kPa		49.0 kPa		58.8 kPa	
					Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
MSR 40	★ 40A	1250	0.44	0.30	0.43	0.35	0.42	0.39	0.41	0.42	0.40	0.45	0.39	0.51	0.38	0.59	0.37	0.67	0.36	0.72	0.35	0.80	0.34	0.88
		1390	0.50	0.36	0.49	0.40	0.47	0.44	0.46	0.47	0.45	0.50	0.44	0.56	0.43	0.62	0.42	0.71	0.41	0.73	0.40	0.85	0.36	0.93
		1480	0.54	0.42	0.53	0.47	0.51	0.50	0.50	0.52	0.49	0.59	0.48	0.63	0.47	0.69	0.46	0.75	0.45	0.82	0.44	0.92	0.42	0.99
		1800	0.64	0.50	0.62	0.55	0.63	0.58	0.62	0.60	0.61	0.67	0.60	0.71	0.59	0.77	0.58	0.83	0.57	0.91	0.56	0.98	0.55	1.10
		2100	0.72	0.58	0.70	0.62	0.69	0.65	0.68	0.68	0.67	0.72	0.66	0.78	0.65	0.85	0.64	0.90	0.63	0.97	0.62	1.12	0.61	1.22
		2400	0.85	0.64	0.84	0.68	0.83	0.72	0.82	0.75	0.80	0.79	0.79	0.83	0.78	0.91	0.77	0.98	0.76	1.09	0.75	1.20	0.73	1.32
MSR 50	★ 50A	1100	1.22	0.30	1.14	0.14	1.11	0.50	1.03	0.67	0.98	0.79	0.92	0.91	0.89	1.05	0.83	1.16	0.75	1.34	0.70	1.54	0.65	1.77
		1230	1.40	0.39	1.30	0.50	1.26	0.61	1.18	0.79	1.12	0.95	1.07	1.05	1.03	1.23	0.98	1.37	0.92	1.47	0.88	1.65	0.83	1.83
		1350	1.53	0.44	1.45	0.61	1.41	0.75	1.32	0.85	1.29	1.05	1.25	1.17	1.17	1.35	1.15	1.53	1.06	1.63	1.03	1.80	0.99	2.01
		1430	1.66	0.50	1.55	0.64	1.50	0.84	1.43	0.96	1.38	1.14	1.34	1.30	1.22	1.43	1.21	1.63	1.17	1.76	1.12	1.91	1.09	2.11
		1530	1.74	0.55	1.66	0.75	1.61	0.91	1.53	1.07	1.50	1.35	1.45	1.41	1.39	1.68	1.33	1.74	1.32	2.05	1.28	2.12	1.25	2.35
		1640	1.89	0.64	1.79	0.81	1.74	1.02	1.71	1.15	1.65	1.46	1.61	1.54	1.56	1.82	1.52	1.88	1.48	2.23	1.43	2.28	1.40	2.60
		1730	2.00	0.72	1.91	0.95	1.86	1.14	1.82	1.25	1.78	1.55	1.73	1.68	1.68	1.97	1.64	2.03	1.60	2.35	1.57	2.47	1.53	2.73
		1840	2.13	0.80	2.11	1.03	2.05	1.23	1.99	1.39	1.93	1.68	1.87	1.79	1.82	2.10	1.78	2.25	1.75	2.56	1.72	2.65	1.68	2.94
		1950	2.20	0.89	2.27	1.14	2.21	1.35	2.15	1.51	2.10	1.83	2.04	1.94	1.96	2.27	1.93	2.41	1.90	2.71	1.86	2.81	1.82	3.15
		2120	2.58	1.06	2.52	1.28	2.46	1.50	2.39	1.73	2.32	2.05	2.26	2.17	2.20	2.53	2.18	2.68	2.15	3.05	2.11	3.15	2.07	3.54
		2300	2.75	1.13	2.71	1.38	2.67	1.63	2.62	1.87	2.58	2.31	2.53	2.35	2.48	2.85	2.43	2.90	2.40	3.33	2.38	3.41	2.35	3.83
MSR 65	★ 65A	1110	1.68	0.38	1.55	0.63	1.50	0.82	1.42	1.02	1.34	1.18	1.23	1.37	1.15	1.54	1.14	1.74	1.05	1.84	0.99	2.02	0.94	2.25
		1240	1.94	0.48	1.84	0.72	1.75	0.94	1.63	1.14	1.55	1.35	1.52	1.55	1.45	1.76	1.35	1.94	1.34	2.12	1.25	2.32	1.19	2.58
		1360	2.16	0.56	2.08	0.83	1.95	1.06	1.85	1.26	1.80	1.50	1.77	1.73	1.70	1.96	1.64	2.20	1.55	2.33	1.51	2.55	1.45	2.80
		1440	2.31	0.63	2.24	0.85	2.16	1.14	2.05	1.36	2.02	1.62	1.95	1.83	1.88	2.12	1.82	2.34	1.76	2.56	1.70	2.75	1.65	3.02
		1530	2.44	0.70	2.35	0.98	2.28	1.22	2.23	1.47	2.15	1.70	2.09	1.95	2.04	2.27	1.97	2.52	1.92	2.74	1.86	2.95	1.80	3.22
		1640	2.66	0.80	2.59	1.05	2.51	1.35	2.44	1.62	2.38	1.85	2.32	2.15	2.62	2.48	2.20	2.75	2.14	2.93	2.08	3.24	2.03	3.44
		1740	2.88	0.89	2.78	1.20	2.71	1.45	2.64	1.76	2.58	2.02	2.53	2.32	2.48	2.66	2.41	2.96	2.34	3.18	2.28	3.47	2.23	3.72
		1820	3.00	0.96	3.01	1.25	2.92	1.54	2.83	1.88	2.75	2.15	2.68	2.44	2.62	2.75	2.56	3.12	2.50	3.35	2.44	3.65	2.38	3.93
		1940	3.23	1.11	3.15	1.42	3.07	1.73	3.04	2.05	2.98	2.33	2.92	2.68	2.85	3.04	2.79	3.38	2.74	3.57	2.68	3.92	2.63	4.22
		2130	3.66	1.33	3.57	1.63	3.48	1.93	3.42	2.32	3.35	2.67	3.30	3.03	3.25	3.38	3.17	3.74	3.11	4.02	3.06	4.32	3.02	4.64
		2300	3.8	1.42	3.72	1.78	3.64	2.14	3.57	2.52	3.50	2.92	3.43	3.31	3.35	3.85	3.30	4.23	3.25	4.45	3.20	4.92	3.15	5.35
MSR 80	★ 80A	1140	3.09	1.04	3.02	1.34	2.92	1.62	2.82	1.95	2.75	2.12	2.68	2.45	2.59	2.67	2.52	3.02	2.45	3.25	2.38	3.45	2.34	3.76
		1230	3.37	1.14	3.25	1.44	3.15	1.75	3.08	2.04	3.04	2.33	2.95	2.63	2.88	2.96	2.80	3.25	2.74	3.55	2.65	3.83	2.60	4.13
		1300	3.59	1.22	3.52	1.55	3.42	1.86	3.35	2.23	3.28	2.53	3.22	2.85	3.14	3.16	3.05	3.47	2.98	3.75	2.92	4.07	2.86	4.43
		1360	3.77	1.29	3.65	1.65	3.55	1.97	3.50	2.35	3.44	2.62	3.35	2.97	3.30	3.33	3.20	3.65	3.14	3.95	3.07	4.32	3.01	4.67
		1440	4.06	1.40	3.90	1.80	3.82	2.12	3.71	2.53	3.58	3.11	3.50	3.22	3.42	3.80	3.34	3.91	3.27	4.09	3.20	4.65	3.14	5.35
		1560	4.38	1.52	4.19	1.95	4.11	2.34	4.03	2.76	3.95	3.38	3.88	3.46	3.81	4.15	3.73	4.41	3.65	4.97	3.58	5.25	3.52	5.77
		1650	4.66	1.62	4.55	2.13	4.45	2.52	4.43	2.94	4.25	3.53	4.19	3.75	4.14	4.46	4.04	4.74	3.91	5.32	3.89	5.62	3.84	6.13
		1730	4.90	1.77	4.80	2.25	4.75	2.66	4.69	3.05	4.53	3.74	4.45	3.94	4.37	4.65	4.29	4.82	4.22	5.55	4.15	5.72	4.07	6.45
		1820	5.22	1.88	5.12	2.35	5.02	2.82	4.96	3.25	4.82	3.95	4.74	4.13	4.66	4.95	4.58	5.06	4.51	5.85	4.43	6.04	4.35	6.84
		1900	5.51	2.11	5.38	2.52	5.25	2.93	5.17	3.46	5.13	4.14	5.04	4.33	4.93	5.15	4.87	5.35	4.77	6.14	4.70	6.35	4.63	7.42
		2100	6.13	2.35	6.04	2.80	5.95	3.25	5.86	3.80	5.78	4.65	5.71	4.79	5.63	5.87	5.54	5.91	5.46	7.12	5.39	7.01	5.33	7.95
		2300	6.21	2.55	6.12	3.08	6.03	3.61	5.94	4.54	5.85	4.85	5.79	5.24	5.74	6.17	5.69	6.70	5.64	7.53	5.59	7.68	5.55	8.15

MSR Series Standard Performance Table (Part 2)

Models: MSR-100 ~ MSR-150

QS: Inlet Condition Airflow Rate (m³/min) | La: Required Shaft Power (kW)

15kW	18.5kW	22kW	30kW	37kW	45kW	55kW	75kW	90kW	110kW	132kW	160kW	200kW	220kW	250kW
------	--------	------	------	------	------	------	------	------	-------	-------	-------	-------	-------	-------

Type / Model			Bore (mm)	Speed (rpm)	Discharge Pressure (kgf/cm²) 0.20		0.25		0.30		0.35		0.40		0.45		0.50		0.60					
					9.8 kPa		14.7 kPa		19.6 kPa		24.5 kPa		29.4 kPa		34.3 kPa		39.2 kPa		44.1 kPa		49.0 kPa		58.8 kPa	
					Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
MSR 100	100A	1060	4.57	1.35	4.42	1.83	4.26	2.25	4.07	2.72	3.93	3.12	3.84	3.55	3.72	4.02	3.57	4.46	3.46	4.97	3.35	5.42	3.25	5.85
		1140	4.98	1.53	4.82	2.03	4.67	2.44	4.52	2.94	4.38	3.43	4.25	3.93	4.14	4.35	4.03	4.86	3.92	5.35	3.83	5.85	3.73	6.35
		1220	5.36	1.69	5.15	2.22	5.01	2.72	4.87	3.23	4.75	3.73	4.63	4.22	4.55	4.74	4.44	5.27	4.35	5.78	4.25	6.35	4.15	6.92
		1310	5.75	1.88	5.60	2.43	5.46	2.94	5.34	3.52	5.15	4.03	5.05	4.63	4.93	5.16	4.86	5.77	4.73	6.33	4.66	6.95	4.53	7.45
		1460	6.52	2.18	6.35	2.75	6.27	3.42	6.13	3.95	6.02	4.64	5.87	5.22	5.75	5.85	5.66	6.54	5.56	7.13	5.45	7.76	5.36	8.43
		1540	6.91	2.40	6.79	3.04	6.63	3.66	6.55	4.32	6.42	4.95	6.30	5.65	6.17	6.32	6.07	6.97	5.97	7.64	5.89	8.35	5.78	9.02
		1680	7.63	2.78	7.47	3.45	7.39	4.15	7.26	4.92	7.15	5.64	7.04	6.33	6.90	7.10	6.84	7.85	6.71	8.53	6.65	9.32	6.53	10.05
		1780	8.02	3.08	7.94	3.83	7.86	4.58	7.75	5.35	7.64	6.13	7.54	6.84	7.44	7.65	7.34	8.45	7.25	9.13	7.16	9.95	7.04	10.73
		1880	8.51	3.35	8.43	4.15	8.35	4.95	8.23	5.77	8.13	6.57	8.03	7.35	7.93	8.16	7.88	9.03	7.75	9.83	7.65	10.64	7.62	11.45
		1980	9.01	3.54	8.94	4.44	8.87	5.34	8.73	6.15	8.67	7.03	8.52	7.92	8.44	8.73	8.39	9.65	8.26	10.42	8.22	11.32	8.15	12.15
		2100	9.62	4.89	9.53	5.50	9.44	6.11	9.35	6.79	9.25	7.55	9.16	8.40	9.07	9.35	8.98	10.23	8.88	11.12	8.79	12.00	8.73	12.95
		2200	10.22	5.47	10.13	5.86	10.04	6.25	9.94	7.24	9.83	8.05	9.74	8.94	9.64	9.94	9.55	10.71	9.45	11.75	9.35	12.57	9.25	13.60
MSR 125	125A	980	6.50	1.65	6.32	2.25	6.13	2.83	6.03	3.42	5.93	4.12	5.80	4.73	5.73	5.42	5.62	6.13	5.58	6.72	5.45	7.22	5.35	8.03
		1050	6.95	1.90	6.75	2.53	6.65	3.13	6.52	3.83	6.45	4.55	6.32	5.22	6.20	5.93	6.13	6.63	6.05	7.32	5.93	7.93	5.83	8.73
		1200	8.00	2.50	7.82	3.22	7.67	3.95	7.53	4.72	7.43	5.52	7.32	6.25	7.23	7.13	7.12	7.92	7.02	8.63	6.95	9.43	6.85	10.23
		1310	8.75	2.90	8.53	3.63	8.42	4.53	8.25	5.33	8.17	6.23	8.07	7.03	8.02	7.92	7.93	8.83	7.84	9.62	7.76	10.03	7.66	11.42
		1390	9.30	3.20	9.12	4.02	8.93	4.92	8.85	5.82	8.72	6.72	8.65	7.62	8.52	8.52	8.42	9.42	8.35	10.33	8.25	11.27	8.22	12.23
		1460	9.72	3.45	9.48	4.23	9.33	5.22	9.23	6.13	9.13	7.13	9.03	8.03	8.93	9.02	8.82	9.93	8.75	10.92	8.73	11.82	8.63	12.83
		1530	10.27	3.80	10.09	4.72	9.92	5.63	9.82	6.63	9.72	7.62	9.62	8.62	9.52	9.62	9.43	10.62	9.35	11.63	9.23	12.63	9.13	13.62
		1630	10.96	4.30	10.73	5.23	10.55	6.23	10.45	7.23	10.35	8.33	10.25	9.33	10.15	10.33	10.05	11.33	10.03	12.43	9.95	13.53	9.83	14.62
		1750	11.69	4.71	11.52	5.82	11.35	6.93	11.27	7.93	11.15	9.15	11.07	10.22	10.97	11.24	10.93	12.35	10.85	13.35	10.73	14.72	10.64	15.82
		1850	12.39	5.19	12.23	6.36	12.07	7.53	11.95	8.55	11.85	9.85	11.72	10.92	11.63	12.04	11.55	13.15	11.52	14.22	11.45	15.62	11.33	16.83
		2000	13.39	7.17	13.22	8.07	13.05	8.97	12.91	9.96	12.83	11.07	12.71	12.26	12.64	13.62	12.58	14.96	12.53	16.23	12.44	17.42	12.35	18.74
		MSR 150	150A	810	12.00	3.84	11.74	5.03	11.52	6.23	11.33	7.32	11.13	8.52	11.02	9.62	10.84	10.82	10.74	11.97	10.06	13.22	10.54	14.42
860	12.80			4.40	12.64	5.63	12.43	6.88	12.23	8.03	12.05	9.32	11.84	10.47	11.73	11.73	11.63	13.03	11.56	14.23	11.42	15.53	11.25	16.82
970	14.70			5.58	14.52	7.02	14.32	8.33	14.13	9.63	13.93	11.07	13.72	12.43	13.82	13.82	13.62	15.23	13.52	16.62	13.33	18.03	13.25	19.43
1110	17.08			7.00	16.92	8.62	16.73	10.17	16.54	11.72	16.35	13.12	16.23	14.82	16.17	16.53	16.07	18.03	15.97	19.63	15.82	21.23	15.72	22.82
1180	18.25			7.80	18.13	9.43	17.94	11.12	17.75	12.73	17.57	14.43	17.45	16.03	17.35	17.83	17.25	19.4	17.15	21.13	17.05	22.82	16.95	24.43
1240	19.27			8.45	19.12	10.21	18.93	11.92	18.75	13.62	18.65	15.42	18.55	17.05	18.45	18.93	18.35	20.7	18.25	22.43	18.15	24.23	18.05	25.83
1400	22.00			10.20	21.85	12.12	21.72	14.03	21.53	15.93	21.42	17.92	21.32	19.92	21.23	21.92	21.17	23.83	21.07	25.83	20.95	27.93	20.85	29.72
1470	23.93			11.65	23.04	13.38	22.87	15.41	22.77	17.43	22.65	19.51	22.56	21.59	22.48	23.82	23.39	25.84	22.30	27.97	22.15	30.20	22.09	32.33
1620	25.42			13.40	25.32	15.62	25.13	18.02	25.02	20.42	24.84	22.62	24.74	25.03	24.66	27.43	24.55	29.63	24.45	32.07	24.32	34.42	24.25	36.93
1730	27.15			15.04	26.94	17.63	26.73	20.22	26.63	22.92	26.48	25.32	26.33	27.92	26.29	30.42	26.15	33.03	26.05	35.53	25.95	38.02	25.85	40.82
1900	29.61			20.57	29.48	22.53	29.35	24.49	29.24	26.62	29.15	28.94	29.03	31.76	28.96	34.54	28.84	37.48	28.73	40.32	28.63	42.66	28.54	45.14
MSR 175	150A			970	21.87	7.20	22.20	10.19	22.13	11.25	21.63	13.35	21.05	15.46	20.85	17.57	20.53	19.65	20.21	21.75	20.12	23.87	19.83	26.03
		1110	25.43	8.91	26.54	11.94	26.33	13.14	25.83	15.53	26.04	17.93	25.24	20.33	24.83	22.73	24.55	25.10	24.23	27.53	24.07	29.93	23.95	32.33
		1180	27.20	9.87	28.50	12.54	28.35	13.84	27.96	16.35	27.55	18.95	27.17	21.47	26.83	24.07	26.57	26.63	26.34	29.15	26.15	31.74	25.95	34.26
		1240	28.73	10.65	30.10	13.43	29.94	14.75	29.53	17.47	29.15	20.16	28.85	22.85	28.55	25.54	28.27	28.24	28.05	30.93	27.84	33.56	27.63	36.26
		1400	32.81	12.75	33.93	16.70	33.65	18.54	33.35	21.65	33.26	25.54	32.83	27.57	32.55	30.64	32.33	33.63	32.03	36.65	31.82	39.71	31.62	42.76
		1460	35.76	14.47	35.24	17.25	35.04	19.09	34.69	22.25	34.50	25.39	34.09	28.55	33.86	31.74	33.64	34.85	33.34	38.01	33.18	41.68	32.94	44.36
		1520	36.65	15.96	36.54	17.80	36.43	19.64	36.03	22.94	35.73	26.23	35.35	29.52	35.17	32.83	34.95	36.07	34.65	39.37	34.56	43.65	34.25	45.95
		1620	38.68	19.39	38.52	21.13	38.36	22.87	38.03	26.43	37.84	29.94	37.43	33.42	37.15	36.96	36.96	40.43	36.65	43.95	36.55	47.45	36.35	50.97

Notes: 1. Motors are standard 4-pole electric motors. 2. Models marked with □ can also be direct-coupled.

MSR Series Standard Performance Table (Part 3)

Models: MSR-200 ~ MSR-350

QS: Inlet Condition Airflow Rate (m³/min) | La: Required Shaft Power (kW)

37kW

45kW

55kW

75kW

90kW

110kW

132kW

160kW

185kW

200kW

220kW

250kW

280kW

315kW

Type / Model			Bore (mm)	Speed (rpm)	Discharge		Pressure (kgf/cm²)		0.20		0.25		0.30		0.35		0.40		0.45		0.50		0.60	
					9.8 kPa		14.7 kPa		19.6 kPa		24.5 kPa		29.4 kPa		34.3 kPa		39.2 kPa		44.1 kPa		49.0 kPa		58.8 kPa	
					Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
MSR 200D	200A	730	22.73	10.15	22.42	10.70	22.13	11.25	21.59	13.35	21.05	15.46	20.69	17.85	20.53	19.65	20.30	21.97	20.12	23.87	19.86	26.17	19.65	28.14
		850	26.70	10.78	26.5	11.92	26.33	13.14	25.90	15.52	25.64	17.93	25.20	19.89	24.83	22.73	24.51	25.12	24.23	27.53	24.06	29.92	23.95	32.33
		900	28.68	11.02	28.5	12.25	28.35	13.84	27.85	16.24	27.55	18.95	27.12	22.35	26.83	24.07	26.56	27.89	26.34	29.15	26.10	32.08	25.95	34.26
		970	30.92	12.29	30.43	13.52	29.94	14.75	29.45	18.25	29.13	20.16	28.80	23.10	28.55	25.54	28.20	28.73	28.05	30.93	27.80	33.91	27.63	36.26
		1070	34.18	17.16	33.90	17.85	33.65	18.54	33.40	22.10	33.26	24.54	32.88	28.75	32.55	30.64	32.28	34.01	32.03	36.65	31.79	39.85	31.62	42.76
		1170	39.60	10.30	39.10	13.50	38.30	18.00	37.80	19.60	37.30	25.20	36.90	28.50	36.50	33.00	36.10	35.20	35.60	40.30	35.30	42.80	35.00	47.40
		1250	42.50	11.30	41.80	14.20	41.30	19.10	40.80	20.60	40.30	27.30	39.80	28.90	39.40	35.00	39.00	36.90	38.60	42.70	38.30	44.20	38.00	51.00
		1350	46.40	12.40	45.80	14.80	45.10	20.60	44.60	27.10	44.10	29.40	43.70	34.90	43.30	37.60	42.90	44.60	42.40	46.40	42.10	49.00	41.80	54.60
		1480	51.20	13.40	50.80	15.80	49.80	22.40	49.20	26.30	48.60	31.30	48.00	36.50	47.70	40.20	47.30	45.20	46.90	49.10	46.30	55.20	46.10	58.10
MSR 200	200A	810	31.77	8.05	31.17	11.26	30.54	14.63	29.95	17.62	29.52	20.66	29.23	23.85	28.87	26.96	28.55	29.97	28.24	33.14	27.93	36.07	27.65	39.07
		900	35.68	9.95	35.01	13.41	34.41	17.12	34.01	20.42	33.62	24.22	33.34	27.55	33.03	30.95	32.5	34.42	32.36	37.85	32.05	41.04	31.73	44.35
		980	39.15	11.58	38.52	15.52	38.87	19.31	37.62	22.91	37.31	27.15	37.07	30.76	36.75	34.53	36.44	38.25	36.05	42.04	35.6	45.55	35.35	49.35
		1070	43.03	13.46	42.53	17.81	42.03	21.22	41.63	25.82	41.43	30.12	41.11	34.45	40.95	38.66	40.58	42.63	40.17	46.84	39.75	50.73	39.45	54.97
		1150	46.05	15.18	46.01	19.92	45.51	23.71	45.31	28.12	45.01	32.74	44.82	37.24	44.62	42.04	44.23	46.64	43.75	50.97	43.44	55.07	43.18	59.76
		1230	49.60	17.07	49.13	21.91	48.72	26.42	48.42	31.23	48.23	36.22	48.11	41.23	47.71	46.02	47.41	50.72	47.01	55.52	46.82	59.81	46.62	64.81
		1310	52.67	19.65	52.21	24.32	51.81	29.23	51.51	34.21	51.32	39.62	51.13	44.81	50.92	50.11	50.62	55.02	50.42	59.91	50.13	64.52	49.81	69.72
		1390	55.77	21.31	54.33	26.61	54.93	31.82	54.73	37.41	54.41	42.92	54.31	48.53	54.12	54.22	53.93	59.21	53.6	64.42	53.42	69.11	53.22	74.62
		1480	59.20	23.80	58.81	28.92	58.41	34.32	58.21	40.41	58.03	46.52	57.82	52.33	57.71	58.11	57.51	63.62	57.36	68.92	57.22	74.22	57.14	80.12
MSR 250D	250A	1100	57.74	19.97	57.26	26.94	56.90	32.37	56.65	37.84	56.42	43.89	56.22	49.65	55.99	55.52	55.65	60.95	55.42	66.39	55.13	71.5	54.77	77.25
		1160	60.89	22.96	60.39	28.41	60.01	34.14	59.74	39.91	59.51	46.29	59.30	52.36	59.05	58.55	58.69	64.28	58.46	70.02	58.14	75.4	57.76	81.47
		1210	63.52	23.95	63.00	29.64	62.60	35.62	62.32	41.64	62.08	48.29	61.86	54.62	61.60	61.08	61.23	67.06	60.99	73.04	60.65	78.65	60.25	84.99
		1260	66.15	24.94	65.61	30.87	65.19	37.10	64.90	43.37	64.65	50.29	64.42	56.88	64.15	63.61	63.77	69.84	63.52	76.06	63.16	81.90	62.75	88.51
		1310	68.78	25.93	68.22	32.10	67.78	38.58	67.48	45.15	67.22	52.29	66.98	59.14	66.70	66.14	66.31	72.62	66.05	79.08				
		1390	72.83	28.12	72.35	34.98	71.85	42.00	71.61	49.38	71.38	56.65	71.13	64.05	70.98	71.57	70.74	78.15	70.57	85.03				
		1480	77.55	31.41	77.04	38.17	76.51	45.30	76.25	53.34	76.01	61.40	75.74	69.07	75.60	76.70	75.33	83.97	75.14	90.97				
MSR 250	250A	990	63.5	19.2	63.3	28.5	63.1	30.8	62.9	35.8	62.7	41.8	62.5	48.6	62.2	55.3	62.0	62.1	61.8	66.7	61.6	73.3	61.4	76.7
		1170	74.7	22.5	74.5	29.2	74.3	35.9	74	42.2	73.6	49.1	73.1	56.9	72.7	64.6	72.3	72.5	72	77.8	71.7	85.3	71.3	89.2
		1250	80.2	28.1	79.9	34.2	79.6	40.3	79.2	45.2	78.8	52.6	78.5	61.1	78.2	69.5	77.9	78.1	77.4	83.6	77.1	91.7	76.8	96.0
		1360	89.5	35.9	89.1	38.2	88.7	40.5	88.5	50.4	88.3	58.9	88.1	68.5	87.8	78.1	87.5	87.6	87.2	94.2	86.9	103.4	86.6	108.3
		1480	97.52	37.1	97.01	40.6	96.5	44.1	96.2	54.8	96.1	64.1	95.8	74.5	95.5	84.9	95.3	95.8	95	102.6	94.5	112.5	94.1	117.3
MSR 300	300A	990	89.3	26.4	89.1	29.2	88.9	32.0	88.7	46.1	88.5	55.3	88.3	64.3	88.1	73.4	87.9	73.2	87.6	77.1	87.4	94.3	87.1	108.8
		1170	108	27.3	106.5	35.5	105	43.7	104.7	54.4	104	65	104.1	75.9	103.8	86.4	103.5	90.6	103.2	101.1	102.9	110.1	102.7	128.4
		1250	114.8	28.1	113.5	37.4	112.2	46.7	112	58.2	111.8	69.8	111.6	81.3	111.4	92.8	111.2	97.8	111.0	108.8	110.8	119.6	110.6	138.2
		1360	127	34	126	43.0	125	52.1	124.8	64.5	124.6	77.5	124.4	90.7	124.2	103.4	124.0	109.1	123.8	121.3	123.6	133.5	123.4	154.2
		1480	138.1	35	137	45.5	135.9	56.2	135.8	70.6	135.6	84.3	135.3	98.6	135.1	112.5	134.9	118.7	134.7	132.1	134.5	145.3	134.3	167.8
MSR 350	350A	650	120.7	29	118.6	40	116.6	51	115	62	113.4	73	111.9	85	110.5	96	109.2	107	107.9	118	106.7	129	105.5	140
		730	137.2	32	135.1	45	133.1	57	131.5	70	129.9	82	128.4	95	127	107	125.7	120	124.4	132	123.2	145	122	157
		800	151.6	35	149.5	49	147.5	63	145.5	77	144.3	90	142.5	104	141.4	118	140.1	132	138.8	145	137.6	158	136.4	172
		880	168.1	39	166	54	164	69	162.4	84	160.8	99	159	114	157.9	129	156.6	144	155.3	159	154.1	175	152.9	190
		980	188.7	43	186.6	60	184.6	76	183	93	181.4	110	179.5	127	178.5	144	177.2	161	175.9	178	174.5	195	173.5	211

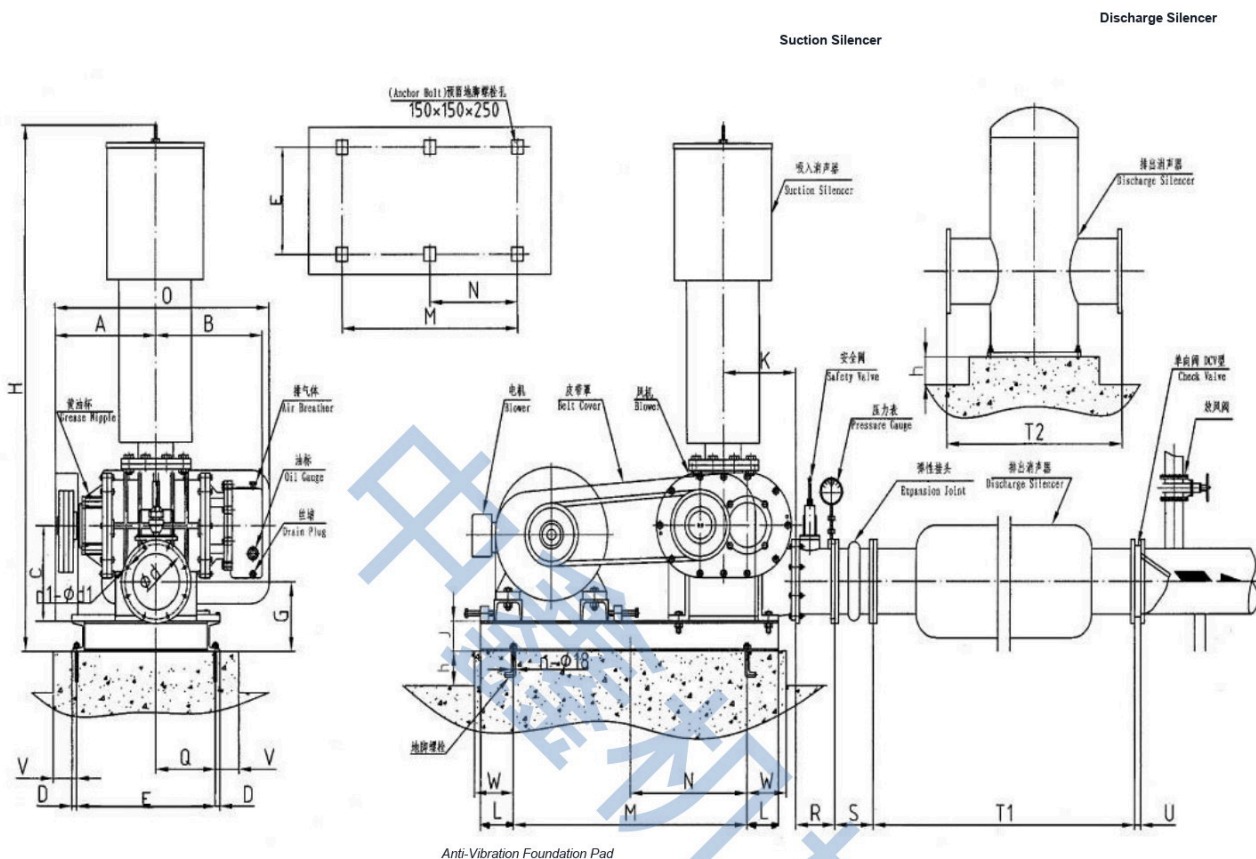
Notes: 1. Motors are standard 4-pole electric motors. 2. Models marked with □ can also be direct-coupled.

MSR Series V-Belt Drive Outline & Dimensions

Belt-Driven Units (MSR-50 ~ MSR-300)

MSR Series V-Belt Drive Outline & Dimensions Drawing

(Anchor Bolt Hole) 150×150×250



Model	Bore	A	B	C	D	E	G	J	H	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	WT(kg)	Silencer	
MSR-40	40A	180	168	100	15	220	90	50	450	100	40	400	–	380	135	100	90	500	250	16	100	150	80	4	110	4–Φ18	50
MSR-50	50A	185	179	128	15	270	125	80	895	135	100	410	–	450	160	120	105	600	300	19	100	150	100	4	125	4–Φ18	70
MSR-65	65A	205	202	135	15	310	135	80	970	135	100	450	–	500	170	125	115	700	350	19	100	150	100	4	145	4–Φ18	81
MSR-80	80A	220	225	180	15	330	150	80	1130	175	100	500	–	530	210	150	135	900	400	19	100	200	100	4	160	8–Φ18	123
MSR-100	100A	260	265	187	15	440	160	80	1255	175	100	580	–	600	280	150	150	1200	450	19	100	200	100	4	180	8–Φ18	157
MSR-125	125A	295	294	217	15	440	190	100	1515	215	80	700	–	710	255	160	165	1400	500	21	100	200	100	4	210	8–Φ18	235
MSR-150	150A	375	377	261	20	550	210	100	1730	260	155	750	–	860	295	155	180	1600	600	24	120	255	100	4	240	8–Φ22	394
MSR-175	150A	375	600	261	22	656	210	100	1730	260	175	800	–	920	320	170	180	1600	600	24	120	275	100	4	240	8–Φ22	695
MSR-200B	200A	445	412	325	24	602	230	100	2077	330	250	750	–	950	356	200	190	1800	650	29	150	350	100	4	295	8–Φ22	755
MSR-200	200A	525	550	345	25	705	250	120	2210	321	200	1000	500	1080	400	200	190	1800	650	29	150	300	100	6	295	8–Φ22	900
MSR-250B	250A	645	589	380	25	800	330	120	2195	340	200	1000	500	1250	384	250	230	2000	702	30	150	300	100	6	350	12–Φ22	1198
MSR-250	250A	668	590	420	30	890	370	160	2785	460	205	1490	745	1258	550	250	230	2000	700	30	200	305	100	6	350	12–Φ22	1758
MSR-300	300A	756	677	510	30	890	400	160	2975	460	205	1490	745	1433	500	260	245	2000	1120	40	200	305	100	6	400	12–Φ22	2256
MSR-350	350A	950	920	630	32	1376	435	180	3200	560	350	1500	750	1870	688	300	255	2000	1200	45	200	450	100	8	460	16–Φ22	3450

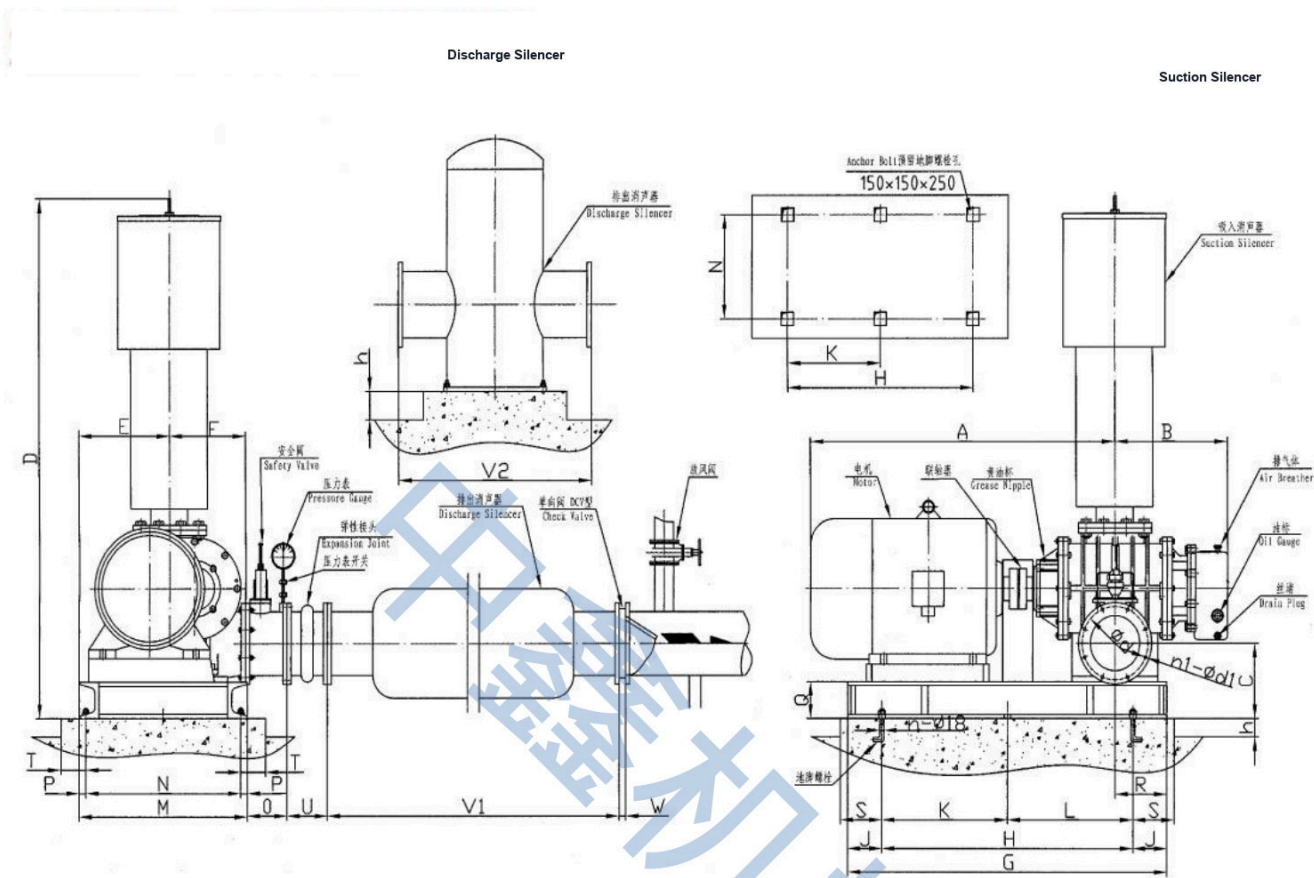
Notes: 1. Weight does not include motor and silencers. 2. Base dimensions for large models depend on motor size. 3. Outlet silencer T1 or T2 can be selected.

MSR Series Direct-Coupled Drive Outline & Dimensions

Direct-Coupled Units (MSR-50 ~ MSR-350)

MSR Series Direct-Coupled Drive Outline & Dimensions Drawing

(Anchor Bolt Hole) 150×150×250



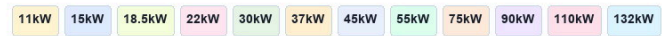
Model	Bore	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	WT(kg)	Silencer
MSR-40	40A	480	168	90	450	122	100	480	380	50	-	-	190	160	100	50	42	150	100	90	500	250	16	80	4	4-Φ18	50
MSR-50	50A	570	179	125	895	152	135	540	420	60	-	-	260	220	120	80	60	150	100	105	600	300	19	100	4	4-Φ18	70
MSR-65	65A	610	202	135	970	192	135	600	440	80	-	-	300	260	125	80	80	150	100	115	700	350	19	100	4	4-Φ18	81
MSR-80	80A	700	225	150	1130	217	175	650	500	75	-	-	370	330	150	80	75	150	100	135	900	400	19	100	4	8-Φ18	123
MSR-100	100A	900	265	160	1255	234	175	850	630	110	-	-	400	360	150	80	110	150	100	150	1200	450	19	100	4	8-Φ18	157
MSR-125	125A	945	294	190	1515	260	215	920	710	105	355	355	430	390	160	100	105	150	100	165	1400	500	21	100	6	8-Φ18	235
MSR-150	150A	1155	377	210	1730	305	260	1150	950	100	475	475	500	455	155	100	165	200	120	180	1600	600	24	100	6	8-Φ22	394
MSR-175	150A	1250	600	210	1730	305	260	1400	1100	150	550	550	540	495	170	100	240	200	120	180	1600	600	24	100	6	8-Φ22	695
MSR-200B	200A	1200	412	230	2077	435	330	1400	1200	100	600	600	650	600	200	100	190	200	150	190	1800	650	29	100	6	8-Φ22	755
MSR-200	200A	1570	550	250	2163	405	321	1600	1300	150	650	650	650	605	200	120	240	200	150	190	1800	650	29	100	6	8-Φ22	900
MSR-250B	250A	1635	589	330	2195	405	355	1700	1300	200	650	650	650	605	250	120	315	300	150	230	2000	700	30	100	6	12-Φ22	1198
MSR-250	250A	1847	590	370	2785	520	460	2100	1800	150	900	900	1020	950	250	160	250	250	200	230	2000	700	30	100	6	12-Φ22	1758
MSR-300	300A	2167	677	400	2975	520	460	2200	2000	100	1000	1000	1020	950	260	160	270	250	200	245	2000	1120	40	100	6	12-Φ22	2256
MSR-350	350A	2630	920	435	3200	601	560	2800	2100	350	700	700	1240	1176	300	180	405	450	200	255	2000	1200	45	100	8	16-Φ22	3450

Notes: 1. Weight does not include motor and silencers. 2. Base dimensions for large models depend on motor size. 3. Outlet silencer V1 or V2 can be selected.

MSR-H High-Pressure Performance Table (Part 1)

Models: MSR-50H ~ MSR-150H (63.7 ~ 98.0 kPa)

QS: Inlet Condition Airflow Rate (m³/min) | La: Required Shaft Power (kW)



Type / Model		Bore (mm)	Speed (rpm)	Discharge Pressure (kgf/cm²)				0.70				0.80				0.90				1.00			
				63.7 kPa				68.6 kPa				78.4 kPa				88.2 kPa				98.0 kPa			
				QS		La		QS		La		QS		La		QS		La		QS		La	
MSR-50H	50A	★	1100	0.61	2.01	0.56	2.39	0.52	2.75	0.49	3.12	0.46	3.03	0.41	3.35	0.38	3.98	0.35	4.31	0.32	4.94	0.29	5.27
			1230	0.78	2.05	0.73	2.24	0.69	2.49	0.65	2.76	0.61	3.37	0.56	3.95	0.50	4.17	0.45	4.65	0.40	5.15	0.35	5.63
			1350	0.95	2.23	0.90	2.48	0.86	2.76	0.81	3.06	0.78	3.40	0.69	4.01	0.65	4.32	0.61	4.65	0.57	5.31	0.53	5.63
			1430	1.06	2.35	1.01	2.61	0.97	2.90	0.93	3.23	0.90	3.68	0.87	4.05	0.81	4.48	0.72	4.81	0.68	5.48	0.64	5.80
			1530	1.22	2.55	1.19	2.83	1.16	3.18	1.13	3.57	1.08	3.88	0.96	4.20	0.90	4.61	0.85	5.10	0.81	5.70	0.77	6.02
			1640	1.38	2.75	1.35	3.16	1.32	3.32	1.29	3.89	1.24	4.27	1.18	4.43	1.13	4.80	1.06	5.20	1.02	5.80	0.98	6.12
			1730	1.50	2.93	1.46	3.25	1.42	3.54	1.39	3.91	1.31	4.38	1.26	4.70	1.22	5.12	1.14	5.50	1.10	6.10	0.96	6.42
			1840	1.65	3.15	1.60	3.35	1.56	3.64	1.51	3.96	1.46	4.43	1.40	4.92	1.35	5.30	1.28	5.70	1.24	6.30	1.20	6.62
			1950	1.78	3.42	1.75	3.65	1.71	3.97	1.68	4.31	1.62	4.60	1.57	5.10	1.50	5.53	1.45	5.92	1.41	6.52	1.37	6.84
			2120	2.02	3.77	1.98	3.97	1.95	4.21	1.91	4.53	1.83	4.80	1.75	5.30	1.70	5.75	1.63	6.12	1.59	6.72	1.55	7.04
			2300	2.31	4.43	2.24	4.35	2.20	4.57	2.17	4.81	2.12	5.20	2.07	5.50	2.03	6.01	1.98	6.32	1.94	6.92	1.90	7.24
MSR-65H	65A	★	1110	0.89	2.52	0.85	2.86	0.80	3.22	0.76	3.58	0.71	3.94	0.66	4.30	0.62	4.66	0.57	5.02	0.53	5.62	0.49	5.94
			1240	1.13	2.89	1.08	3.17	1.03	3.49	0.98	3.84	0.93	4.20	0.88	4.56	0.83	4.92	0.78	5.28	0.74	5.88	0.70	6.20
			1360	1.39	3.08	1.34	3.42	1.28	3.76	1.23	4.13	1.17	4.40	1.12	4.75	1.06	5.11	1.01	5.47	0.97	6.07	0.93	6.39
			1440	1.60	3.35	1.55	3.68	1.51	4.05	1.46	4.45	1.41	4.85	1.35	5.20	1.29	5.56	1.23	5.92	1.19	6.52	1.15	6.84
			1530	1.74	3.50	1.69	3.80	1.64	4.14	1.59	4.49	1.53	5.10	1.48	5.40	1.42	5.71	1.37	6.05	1.33	6.65	1.29	6.97
			1640	1.98	3.74	1.92	4.06	1.86	4.42	1.81	4.80	1.75	5.25	1.70	5.40	1.65	5.78	1.60	6.10	1.56	6.70	1.52	7.02
			1740	2.18	4.13	2.12	4.59	2.06	5.05	2.01	5.55	1.92	5.80	1.84	6.10	1.75	6.35	1.70	6.50	1.65	7.10	1.61	7.42
			1820	2.34	4.36	2.27	4.75	2.20	5.15	2.13	5.74	2.10	6.10	2.08	6.40	2.03	6.63	2.00	6.90	1.96	7.30	1.92	7.62
			1940	2.57	4.71	2.52	5.03	2.47	5.59	2.42	6.21	2.38	6.43	2.31	6.60	2.27	7.00	2.24	7.30	2.20	7.50	2.16	7.82
			2130	2.96	5.22	2.89	5.54	2.84	5.86	2.78	6.30	2.70	6.62	2.65	6.91	2.60	7.20	2.53	7.55	2.49	7.95	2.45	8.27
			2300	3.09	5.72	3.06	6.14	3.01	6.58	2.95	6.89	2.88	7.10	2.83	7.33	2.77	7.51	2.70	7.82	2.66	8.22	2.62	8.54
MSR-80H	80A	★	1140	2.27	4.09	2.20	4.44	2.14	4.83	2.07	5.25	2.01	5.61	1.96	5.97	1.89	6.33	1.82	6.69	1.76	7.05	1.70	7.37
			1230	2.52	4.49	2.45	4.88	2.37	5.30	2.30	5.76	2.25	6.10	2.19	6.45	2.12	6.81	2.06	7.17	2.00	7.53	1.94	7.85
			1300	2.77	4.82	2.69	5.23	2.61	5.69	2.53	6.18	2.48	6.40	2.40	6.71	2.34	7.07	2.28	7.43	2.22	7.79	2.16	8.11
			1360	2.95	5.08	2.86	5.52	2.77	5.99	2.69	6.52	2.62	6.80	2.57	7.21	2.49	7.53	2.42	7.89	2.36	8.25	2.30	8.57
			1440	3.07	5.67	3.00	6.06	2.92	6.44	2.84	6.89	2.78	7.03	2.65	7.38	2.60	7.90	2.55	8.10	2.50	8.46	2.45	8.78
			1560	3.44	6.17	3.37	6.57	3.30	6.97	3.21	7.21	3.18	7.40	3.15	7.70	3.10	8.12	3.07	8.35	3.02	8.71	2.97	9.03
			1650	3.73	6.55	3.65	7.02	3.59	7.45	3.48	7.73	3.40	8.00	3.32	8.20	3.27	8.40	3.21	8.70	3.16	9.06	3.11	9.38
			1730	4.01	6.94	3.93	7.35	3.85	7.84	3.79	8.25	3.70	8.40	3.65	8.71	3.61	8.98	3.52	9.10	3.47	9.46	3.42	9.78
			1820	4.29	7.27	4.22	7.74	4.15	8.25	4.08	8.72	4.00	9.01	3.95	9.15	3.89	9.28	3.80	9.55	3.75	9.91	3.70	10.23
			1900	4.55	7.65	4.49	8.14	4.42	8.63	4.35	9.13	4.27	9.31	4.20	9.58	4.13	9.88	4.07	10.1	4.01	10.47	3.96	10.79
			2100	5.26	8.45	5.18	9.04	5.12	9.54	5.05	9.90	5.00	10.20	4.91	10.51	4.87	10.90	4.80	11.2	4.74	11.59	4.69	11.91
			2300	5.52	8.73	5.50	9.35	5.47	9.97	5.41	11.04	5.35	11.66	5.28	12.28	5.21	12.90	5.14	13.52	5.08	13.91	5.02	14.23
MSR-100H	100A	★	1060	3.17	6.36	3.09	6.91	3.01	7.51	2.94	8.17	2.87	8.53	2.79	8.89	2.72	9.25	2.65	9.61	2.59	10.00	2.53	10.32
			1140	3.65	6.90	3.58	7.51	3.65	8.15	3.72	8.66	3.65	8.90	3.60	9.10	3.54	9.50	3.48	9.86	3.42	10.26	3.36	10.58
			1220	4.06	7.52	3.98	8.18	3.90	8.88	3.83	9.65	3.75	10.10	3.68	10.40	3.61	10.76	3.54	11.11	3.48	11.47	3.42	11.79
			1310	4.43	8.15	4.35	8.75	4.26	9.62	4.18	10.56	4.10	10.82	4.03	11.50	3.90	11.71	3.82	12.10	3.76	12.41	3.70	12.73
			1460	5.28	9.23	5.19	9.85	5.10	10.44	4.99	10.91	4.78	11.32	4.61	11.85	4.48	12.30	4.30	12.75	4.24	13.06	4.18	13.38
			1540	5.70	9.75	5.64	10.46	5.55	11.12	5.43	10.96	5.21	11.98	5.00	12.21	4.83	12.80	4.68	13.20	4.62	13.51	4.56	13.83
			1680	6.44	10.77	6.35	11.53	6.25	12.21	6.16	12.63	6.00	12.90	5.85	13.20	5.71	13.67	5.49	14.10	5.43	14.41	5.37	14.73
			1780	6.95	11.52	6.87	12.34	6.83	13.07	6.75	13.44	6.55	13.92	6.38	14.10	6.10	14.52	5.91	14.88	5.85	15.19	5.79	15.51
			1880	7.55	12.25	7.45	13.05	7.33	13.86	7.24	14.26	7.09	14.58	6.90	14.93	6.73	15.20	6.51	15.69	6.45	16.00	6.39	16.32
			1980	8.06	13.05	7.92	13.87	7.85	14.72	7.75	15.27	7.58	15.61	7.40	16.02	7.21	16.60	7.03	17.20	6.97	17.51	6.91	17.83
			2100	8.65	13.85	8.55	14.70	8.49	15.62	8.40	16.02	8.25	16.62	8.07	17.13	7.93	17.66	7.71	18.20	7.65	18.51	7.59	18.83
			2200	9.17	14.57	9.14	15.46	9.04	16.42	8.92	16.95	8.72	17.40	8.61	17.98	8.47	18.33	8.21	18.98	8.15	19.29	8.09	19.61

MSR-H High-Pressure Performance Table (Part 2)

Models: MSR-175H ~ MSR-300H (63.7 ~ 98.0 kPa)

QS: Inlet Condition Airflow Rate (m³/min) | La: Required Shaft Power (kW)

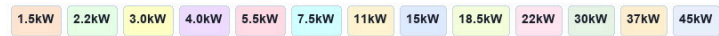
37kW	45kW	55kW	75kW	90kW	110kW	132kW	160kW	185kW	200kW	225kW	250kW	315kW
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Type / Model		Bore (mm)	Speed (rpm)	Discharge Pressure (kgf/cm²)				0.70				0.80				0.90				1.00			
				63.7 kPa				68.6 kPa				78.4 kPa				88.2 kPa				98.0 kPa			
				Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La	Qs	La
MSR-125H	125A	980	5.24	8.92	5.14	9.81	5.04	10.89	4.93	12.10	4.86	13.2	4.78	14.1	4.71	15.3	4.64	16.4	4.57	17.5	4.50	18.6	4.43
		1050	5.54	9.71	5.43	10.78	5.32	11.98	5.21	13.01	5.11	14.08	5.01	15.11	4.92	16.01	4.80	17.10	4.73	18.10	4.66	19.10	4.59
		1200	6.83	11.05	6.74	11.82	6.66	12.55	6.54	13.33	6.43	14.61	6.32	15.58	6.23	16.57	6.15	17.90	6.07	18.80	5.99	19.70	5.91
		1310	7.55	12.22	7.45	13.13	7.39	13.92	7.34	14.83	7.25	15.85	7.17	16.86	7.09	17.87	6.99	18.80	6.91	19.70	6.83	20.60	6.75
		1390	8.14	13.14	8.06	14.04	7.92	14.91	7.85	15.82	7.61	16.20	7.52	17.21	7.43	18.23	7.34	19.25	7.25	20.25	7.16	21.25	7.08
		1460	8.50	13.73	8.45	14.67	8.33	15.62	8.24	16.55	8.08	17.10	7.90	17.72	7.73	18.20	7.53	19.8	7.53	20.10	7.43	21.60	7.33
		1530	9.05	14.63	8.95	15.62	8.87	16.63	8.82	17.62	8.61	18.01	8.48	18.71	8.21	19.40	8.00	20.10	7.90	21.60	7.80	22.60	7.70
		1630	9.75	15.65	9.65	16.73	9.55	17.82	9.45	18.95	9.31	19.60	9.15	20.30	8.93	20.98	8.80	21.60	8.70	22.60	8.60	23.60	8.50
		1750	10.55	16.94	10.45	18.06	10.35	19.14	10.25	20.25	10.05	21.0	9.87	21.80	9.80	22.35	9.62	23.10	9.52	24.10	9.42	25.10	9.32
		1850	11.23	18.05	11.13	19.24	11.04	20.37	10.94	21.45	10.78	22.10	10.61	22.98	10.45	23.70	10.27	24.20	10.17	25.20	10.10	26.20	10.00
		2000	12.23	20.02	12.12	21.31	12.05	22.63	11.93	23.92	11.71	24.50	11.58	25.10	11.37	25.90	11.10	26.80	11.00	27.80	10.90	28.80	10.80
MSR-150H	150A	810	10.26	17.16	10.16	18.86	10.06	20.73	9.96	22.78	9.86	24.38	9.75	25.98	9.64	27.28	9.53	28.58	9.43	29.57	9.33	30.57	9.23
		860	11.16	17.77	11.03	18.97	10.85	20.87	10.73	24.37	10.62	25.67	10.51	26.97	10.40	28.27	10.29	29.57	10.19	30.57	10.09	31.57	9.99
		970	13.12	21.45	12.95	22.93	12.86	24.34	12.73	25.82	12.51	26.50	12.39	29.01	12.25	30.36	12.12	31.71	12.00	32.71	11.90	33.71	11.80
		1110	15.55	25.07	15.46	26.74	15.33	28.45	15.15	30.07	15.00	32.60	14.78	35.00	14.65	37.21	14.5	39.35	14.35	41.50	14.20	43.65	14.05
		1180	16.86	26.34	16.73	28.22	16.55	30.15	16.43	31.84	16.27	33.20	16.10	36.30	15.89	40.10	15.71	42.25	15.55	44.40	15.40	46.55	15.25
		1240	17.92	27.73	17.75	29.55	17.66	31.43	17.53	33.17	17.21	36.21	17.10	39.38	16.8	44.45	16.63	47.78	16.45	50.18	16.30	52.58	16.15
		1400	20.76	33.34	20.63	35.85	20.45	37.97	20.33	40.13	20.11	43.0	19.87	46.10	19.63	49.80	19.48	52.0	19.30	54.20	19.10	56.40	18.90
		1470	21.92	34.57	21.82	36.92	21.69	39.12	21.52	41.33	21.30	44.8	21.11	47.10	20.90	50.9	20.71	54.0	20.52	56.20	20.33	58.40	20.15
		1620	24.12	40.07	24.04	43.32	23.85	45.83	23.73	48.25	23.50	51.10	23.31	54.0	23.13	57.8	22.90	60.1	22.72	62.20	22.53	64.30	22.35
		1730	25.76	44.85	25.64	47.63	25.45	50.27	25.32	52.95	25.14	55.95	25.00	58.10	24.80	61.0	24.61	65.0	24.42	67.10	24.23	69.20	24.05
		1900	28.35	47.83	28.15	50.54	27.97	53.35	27.92	56.43	27.71	59.23	27.58	62.01	27.39	65.30	27.11	69.01	26.92	71.10	26.73	73.20	26.55
MSR-200H	200A	810	27.26	47.34	26.93	45.35	26.62	48.52	26.33	51.73	26.12	55.0	25.90	58.2	25.59	61.4	25.28	64.61	25.00	67.81	24.71	71.01	24.43
		900	31.45	47.64	31.14	51.23	30.85	54.52	30.54	57.85	30.21	60.8	29.90	64.01	28.89	67.21	28.58	70.41	28.30	73.61	28.01	76.81	27.73
		980	35.05	53.03	34.72	56.75	34.38	60.55	34.05	64.23	33.80	66.80	33.62	69.10	33.27	72.3	32.92	75.51	32.63	78.71	32.35	81.91	32.07
		1070	39.35	58.83	39.13	63.73	38.92	67.37	38.75	71.44	38.58	74.01	38.37	77.20	38.11	80.50	37.90	84.20	37.63	87.40	37.35	90.60	37.07
		1150	43.03	64.33	42.74	68.63	42.45	73.34	42.25	77.66	42.03	80.10	41.81	84.20	41.63	87.5	41.45	90.7	41.27	93.9	41.09	97.1	40.91
		1230	46.41	69.32	46.21	74.22	46.02	78.81	45.83	83.52	45.60	86.10	45.42	89.10	45.20	92.3	45.0	96.0	44.82	99.2	44.64	102.4	44.46
		1310	49.72	74.81	49.53	79.71	49.32	84.72	49.11	89.76	48.90	92.10	48.68	95.3	48.41	99.2	48.25	105.1	48.09	109.2	47.93	113.3	47.77
		1390	53.03	79.65	52.82	84.91	52.71	90.24	52.52	95.55	52.35	98.7	52.10	103.2	51.90	107.2	51.72	112.0	51.54	116.0	51.36	120.0	51.18
		1480	56.92	85.61	56.82	91.32	56.71	96.72	56.53	102.4	56.21	106.3	56.10	110.0	55.75	115.0	55.4	120.0	55.12	124.0	54.84	128.0	54.56
		1570	61.2	83.2	61.0	88.9	59.9	93.6	59.8	99.7	59.2	112.1	58.8	120.0	58.3	129.6	58.0	137.0	57.6	146.0	57.3	154.0	56.9
		1660	66.1	96.1	65.9	101.5	69.4	108.5	69.0	115.1	68.6	126.0	68.2	134.4	67.7	140.1	67.1	152.0	66.6	160.0	66.2	168.0	65.8
MSR-250H	250A	1250	76.4	103.5	76.0	110.8	75.6	118.2	75.1	125.2	74.5	142.0	74.1	149.0	73.4	155.0	73.0	165.0	72.6	175.0	72.2	185.0	71.8
		1360	86.3	112.5	86.0	125.5	85.7	133.9	85.4	142.4	85.1	154.0	84.7	165.0	84.3	177.0	84.0	183.0	83.6	195.0	83.2	207.0	82.8
		1480	93.7	126.9	93.4	136.2	93.2	145.6	92.6	154.3	92.2	170.1	91.8	184.0	91.5	192.0	91.2	205.0	90.8	219.0	90.5	233.0	90.2
		1590	101.5	135.3	101.2	145.3	101.0	150.1	100.8	159.8	100.5	170.5	100.1	182.1	100.8	200.1	100.5	227.0	100.2	244.0	100.0	261.0	99.8
		1700	110.4	145.7	110.2	155.8	110.0	161.7	109.8	172.4	109.3	187.1	108.9	203.1	108.6	220.1	108.3	234.0	108.0	250.0	107.7	266.0	107.4
MSR-300H	300A	1360	123.2	162.6	123.0	176.6	122.7	180.4	122.5	192.3	122.2	206.1	122.0	217.5	121.7	232.0	121.5	256.0	121.3	279.0	121.1	302.0	120.9
		1480	134.1	177.8	134.0	190.6	133.8	196.7	133.7	209.9	133.5	213.0	133.2	235.1	132.8	250.1	132.5	270.1	132.2	290.1	132.0	310.1	131.8
		1590	144.1	187.8	144.0	201.6	143.8	207.7	143.7	220.9	143.5	224.0	143.2	246.1	142.8	261.1	142.5	281.1	142.2	301.1	142.0	321.1	141.8
		1700	155.1	200.2	155.0	214.2	154.8	221.3	154.6	234.5	154.4	238.0	154.2	260.1	153.8	275.1	153.5	295.1	153.2	315.1	153.0	335.1	152.8
MSR-350H	350A	650	104.4	151	103.4	162	102.4	174	101.5	185	100.6	197	99.7	209	98.8	221	97.9	233	97.0	245	96.1	257	95.2
		730	120.9	170	119.9	182	118.9	195	118	207	117.1	220	116.2	233	115.3	246	114.4	259	113.5	271	112.6	283	111.7
		800	135.3	186	134.3	200	133.3	214	132.4	227	131.5	240	130.6	253	129.7	266	128.8	279	127.9	291	127.0	303	126.1
		880	151.8	205	150.8	220	149.8	235	148.9	250	148	265	147.1	280	146.2	295	145.3	310	144.4	325	143.5	340	142.6
		980	172.4	228	171.4	245	170.4	262	169.5	278	168.6	294	167.7	310	166.8	326	165.9	342	165.0	358	164.1	374	163.2

MSR-V Vacuum Roots Blower Performance Table (Part 1)

Models: MSR-50V ~ MSR-150V (-13.3 ~ -44.0 kPa)

QS: Airflow Rate at Specified Vacuum (m³/min) | La: Required Shaft Power (kW)

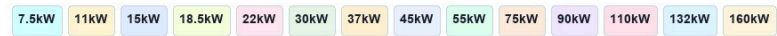


Type / Model		Bore (mm)	Speed (rpm)	Vacuum Degree (mmHg / kPa)			-200			-250		-300			-330	
				-13.3 kPa			-26.7 kPa			-33.3 kPa		-40.0 kPa			-44.0 kPa	
				Qs	La		Qs	La		Qs	La	Qs	La		Qs	La
MSR—50V	吸入口径 5K—40A 吐出口径 1.0MPa— 50A	1100	1.12	0.36	1.03	0.55	0.94	0.74	0.86	0.93					1100	
		1230	1.29	0.47	1.20	0.67	1.10	0.88	1.02	1.08					1230	
		1350	1.45	0.58	1.36	0.80	1.26	1.02	1.16	1.24					1350	
		1470	1.62	0.74	1.54	0.96	1.45	1.18	1.35	1.40	1.25	1.62	1.21	1.75	1470	
		1560	1.76	0.86	1.69	1.09	1.60	1.31	1.50	1.54	1.37	1.76	1.31	1.89	1560	
		1660	1.88	0.93	1.81	1.17	1.71	1.41	1.61	1.66	1.48	1.90	1.42	2.04	1660	
		1750	1.99	0.99	1.92	1.27	1.82	1.50	1.71	1.76	1.58	2.02	1.52	2.17	1750	
		1850	2.12	1.13	2.05	1.39	1.95	1.65	1.84	1.91	1.71	2.17	1.64	2.32	1850	
		1960	2.27	1.28	2.20	1.55	2.10	1.81	1.99	2.08	1.90	2.34	1.85	2.50	1960	
		2120	2.46	1.56	2.38	1.84	2.27	2.21	2.15	2.40	2.02	2.67	1.95	2.83	2120	
2300	2.67	1.79	2.59	2.10	2.48	2.50	2.37	2.70	2.27	3.05	2.23	3.21	2300			
MSR—65V	吸入口径 5K—50A 吐出口径 1.0MPa— 65A	1100	1.57	0.75	1.43	0.98	1.30	1.21	1.16	1.45					1100	
		1240	1.83	0.84	1.69	1.09	1.54	1.35	1.40	1.61					1240	
		1360	2.08	0.95	1.93	1.24	1.78	1.52	1.64	1.81					1360	
		1460	2.27	1.05	2.13	1.35	1.99	1.65	1.84	1.96	1.70	2.26	1.61	2.44	1460	
		1550	2.47	1.13	2.32	1.45	2.17	1.77	2.03	2.09	1.88	2.41	1.80	2.60	1550	
		1670	2.70	1.24	2.56	1.58	2.42	1.93	2.27	2.28	2.13	2.62	2.05	2.83	1670	
		1770	2.90	1.32	2.76	1.69	2.62	2.06	2.49	2.43	2.35	2.79	2.27	3.03	1770	
		1860	3.08	1.44	2.94	1.82	2.80	2.20	2.65	2.59	2.51	2.98	2.44	3.20	1860	
		1980	3.33	1.60	3.18	2.00	3.03	2.41	2.89	2.81	2.74	3.23	2.72	3.47	1980	
		2150	3.57	1.84	3.43	2.28	3.30	2.72	3.16	3.16	3.02	3.60	2.92	3.86	2150	
2300	3.80	2.10	3.65	2.54	3.49	3.05	3.34	3.51	3.18	3.95	3.09	4.21	2300			
MSR—80V	吸入口径 5K—65A 吐出口径 1.0MPa— 80A	1130	2.92	1.01	2.79	1.46	2.65	1.90	2.50	2.35					1130	
		1240	3.29	1.17	3.15	1.66	3.00	2.14	2.85	2.63	2.69	3.11	2.62	3.40	1240	
		1300	3.49	1.30	3.35	1.80	3.20	2.30	3.05	2.80	2.89	3.30	2.82	3.60	1300	
		1370	3.73	1.44	3.59	1.96	3.44	2.49	3.29	3.01	3.13	3.53	3.06	3.84	1370	
		1470	4.03	1.60	3.89	2.16	3.74	2.73	3.59	3.30	3.43	3.86	3.35	4.20	1470	
		1570	4.35	1.82	4.21	2.40	4.07	2.99	3.92	3.57	3.77	4.16	3.66	4.51	1570	
		1660	4.64	2.01	4.51	2.62	4.37	3.24	4.22	3.85	4.06	4.46	3.96	4.82	1660	
		1750	4.95	2.23	4.81	2.85	4.67	3.48	4.53	4.11	4.38	4.73	4.27	5.10	1750	
		1840	5.23	2.42	5.10	3.09	4.96	3.75	4.81	4.42	4.65	5.09	4.55	5.48	1840	
		1930	5.53	2.64	5.40	3.33	5.26	4.02	5.11	4.72	4.95	5.41	4.85	5.82	1930	
2100	6.09	2.88	5.96	3.65	5.82	4.42	5.65	5.19	5.49	5.96	5.41	6.42	2100			
2300	6.75	3.27	6.62	4.12	6.48	4.96	6.31	5.80	6.15	6.65	6.07	7.14	2300			
MSR—100V	吸入口径 5K—80A 吐出口径 1.0MPa— 100A	1070	4.35	1.56	4.06	2.24	3.80	2.92	3.57	3.60					1070	
		1160	4.83	1.80	4.56	2.53	4.29	3.27	4.03	4.01	3.78	4.72	3.63	5.15	1160	
		1240	5.27	1.97	4.99	2.74	4.72	3.52	4.46	4.29	4.20	5.07	4.07	5.52	1240	
		1320	5.80	2.09	5.54	2.94	5.27	3.79	5.01	4.64	4.74	5.49	4.58	6.00	1320	
		1480	6.51	2.27	6.28	3.19	6.05	4.14	5.82	5.05	5.60	5.97	5.47	6.51	1480	
		1580	6.99	2.45	6.77	3.43	6.55	4.44	6.33	5.44	6.10	6.40	5.96	6.98	1580	
		1700	7.57	2.66	7.37	3.72	7.16	4.79	6.95	5.68	6.73	6.92	6.60	7.56	1700	
		1790	8.00	2.87	7.81	3.95	7.60	5.07	7.38	6.19	7.15	7.27	7.01	7.93	1790	
		1890	8.47	3.03	8.29	4.21	8.09	5.39	7.88	6.56	7.66	7.74	7.53	8.45	1890	
		2010	9.08	3.23	8.92	4.48	8.75	5.74	8.57	7.00	8.38	8.26	8.27	9.03	2010	
2200	10.07	3.56	9.91	5.00	9.63	6.37	9.33	7.79	9.06	9.13	8.89	9.95	2200			

MSR-V Vacuum Roots Blower Performance Table (Part 2)

Models: MSR-175V ~ MSR-300V (-13.3 ~ -44.0 kPa)

QS: Airflow Rate at Specified Vacuum (m³/min) | La: Required Shaft Power (kW)



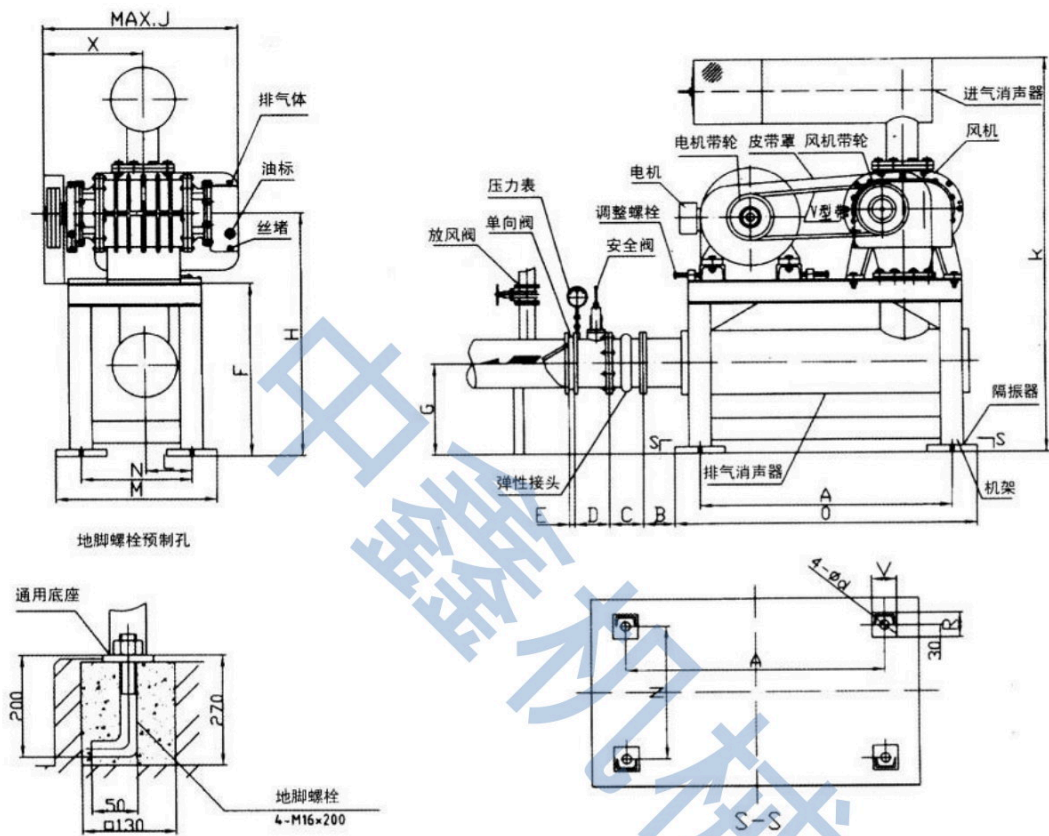
Type / Model		Bore (mm)	Speed (rpm)	Vacuum Degree (mmHg / -kPa)			-200			-250		-300			-330	
				-13.3 kPa			-26.7 kPa			-33.3 kPa		-40.0 kPa			-44.0 kPa	
				Qs	La		Qs	La		Qs	La		Qs	La		Qs
MSR-125V	吸入口径 5K-100A 吐出口径 1.0MPa-125A	980	6.24	2.27	5.97	3.17	5.70	4.07	5.42	4.97	5.14	5.86	5.01	6.40	980	
		1050	6.75	2.60	6.48	3.53	6.21	4.47	5.94	5.41	5.66	6.35	5.61	6.89	1050	
		1200	7.77	3.26	7.51	4.31	7.25	5.37	6.98	6.42	6.69	7.47	6.58	8.08	1200	
		1310	8.57	3.71	8.36	4.87	8.13	6.02	7.88	7.18	7.61	8.33	7.44	9.00	1310	
		1410	9.27	4.05	9.05	5.29	8.82	6.53	8.57	7.77	8.30	9.00	8.15	9.73	1410	
		1470	9.70	4.37	9.48	5.66	9.25	6.95	9.02	8.23	8.78	9.50	8.50	10.28	1470	
		1550	10.37	4.62	10.10	5.98	9.82	7.34	9.85	8.70	9.33	10.10	9.13	10.92	1550	
		1650	11.00	5.18	10.70	6.64	10.50	8.11	10.30	9.58	10.10	11.10	9.64	11.93	1650	
		1770	11.80	5.70	11.50	7.23	11.30	8.75	11.10	10.30	10.90	11.80	10.38	12.71	1770	
		1880	12.50	6.25	12.30	7.86	12.00	9.46	11.80	11.10	11.60	12.70	11.16	13.66	1880	
		2000	13.37	6.84	13.17	8.55	12.85	10.27	12.51	11.97	12.21	13.69	12.04	14.72	2000	
MSR-150V	吸入口径 5K-125A 吐出口径 1.0MPa-150A	810	12.60	3.51	12.20	4.83	11.80	6.72	11.40	8.61	11.00	10.50	10.75	11.61	810	
		870	13.80	4.12	13.30	6.00	12.80	7.80	12.30	9.77	11.80	11.70	11.50	12.74	870	
		990	15.60	4.46	15.10	6.58	14.60	8.70	14.20	10.80	13.80	12.90	13.60	14.17	990	
		1120	17.70	6.61	17.30	8.94	16.80	11.30	16.30	13.60	15.80	15.90	15.55	17.30	1120	
		1200	19.20	7.57	18.70	9.93	18.20	12.30	17.80	14.70	17.30	17.00	16.93	18.48	1200	
		1270	20.30	8.40	19.90	10.80	19.50	13.20	19.10	15.60	18.70	18.00	18.09	19.42	1270	
		1410	22.50	10.50	22.10	13.20	21.70	15.90	21.30	18.60	20.90	21.30	20.69	22.90	1410	
		1540	24.70	12.50	24.20	15.40	23.70	18.30	23.20	21.20	22.70	24.00	22.25	25.70	1540	
		1670	26.50	14.30	26.00	17.40	25.50	20.50	25.00	23.50	24.50	26.60	24.22	28.41	1670	
		1780	27.80	15.90	27.30	19.20	26.80	22.50	26.30	25.80	25.70	29.10	25.51	31.07	1780	
		1900	29.25	17.77	28.81	21.09	27.91	24.83	27.34	28.45	26.72	32.26	26.47	33.93	1900	
MSR-175V	吸入口径 5K-150A 吐出口径 1.0MPa-200A	970	21.19	8.09	20.43	11.19	19.57	13.69	18.86	15.85	18.01	18.15	17.21	19.71	970	
		1110	24.84	10.07	23.90	13.81	23.10	16.65	22.55	19.14	21.51	21.70	19.98	23.10	1110	
		1180	26.63	11.46	25.75	14.56	24.86	17.75	24.28	20.53	23.42	23.42	21.90	25.62	1180	
		1240	28.18	11.96	27.24	15.70	26.55	19.01	25.88	21.74	24.96	25.15	22.50	28.91	1240	
		1400	32.18	14.20	31.32	18.48	30.57	22.64	29.95	25.53	29.08	29.27	27.80	34.21	1400	
		1520	35.15	16.11	34.25	20.99	33.65	24.85	32.91	28.58	32.03	32.33	30.61	37.38	1520	
		1620	37.48	18.02	36.62	23.57	35.79	27.67	35.13	31.53	34.23	35.84	32.13	40.17	1620	
		1730	40.00	20.22	39.12	26.00	38.32	30.85	37.66	35.35	36.67	39.61	34.17	45.01	1730	
MSR-200V	吸入口径 5K-150A 吐出口径 1.0MPa-200A	810	31.07	10.38	29.92	14.89	29.01	18.96	28.16	23.20	27.08	27.43	25.72	29.85	810	
		900	34.92	12.49	33.98	17.37	23.17	22.01	32.28	26.82	31.16	31.49	29.76	34.30	900	
		980	38.39	14.40	37.24	19.66	36.85	24.80	35.97	30.06	35.10	35.14	34.60	38.19	980	
		1070	42.37	16.59	41.02	21.61	40.91	27.72	40.09	33.57	38.86	39.32	36.37	42.81	1070	
		1150	45.90	18.61	45.25	24.06	44.65	30.15	43.72	36.35	42.50	42.76	40.96	46.16	1150	
		1230	49.01	20.58	48.38	26.74	47.79	33.47	47.02	40.25	45.87	46.83	43.78	50.74	1230	
		1310	52.26	23.03	51.61	29.61	50.95	36.65	50.33	43.84	49.24	50.97	46.60	55.13	1310	
		1390	55.22	25.15	54.65	32.33	54.11	39.86	53.61	47.40	52.64	55.03	49.44	59.57	1390	
MSR-250V	吸入口径 5K-200A 吐出口径 1.0MPa-250A	1480	58.65	27.52	58.17	34.85	57.64	43.13	57.05	51.20	56.46	59.06	52.61	63.76	1480	
		990	63.3	28.5	63.1	30.8	62.9	35.8	62.7	41.8	62.2	55.3	62.0	62.1	990	
		1170	74.5	29.2	74.3	35.9	74	42.2	73.6	49.1	72.7	64.6	72.3	72.5	1170	
		1250	79.9	36.2	79.6	38.3	79.2	45.2	78.8	52.6	78.2	69.5	77.9	78.1	1250	
		1360	89.1	37.2	88.7	40.5	88.5	50.4	88.3	58.9	87.8	78.1	87.5	87.6	1360	
MSR-300V	吸入口径 5K-250A 吐出口径 1.0MPa-300A	1480	97.01	38.2	96.5	44.1	96.2	54.8	96.1	64.1	95.5	84.9	95.2	95.8	1480	
		990	89.6	29.2	88.9	32	88.7	46.1	88.5	55.3	88.1	73.4	87.9	73.2	990	
		1170	106.5	35.5	105	43.7	104.7	54.4	104	65	103.8	86.4	103.5	90.6	1170	
		1250	113.5	37.4	112.2	46.7	112	58.2	111.8	69.8	111.4	92.8	111.2	97.8	1250	
		1360	126	43.0	125	52.1	124.8	64.5	124.6	77.5	124.2	103.4	124.0	109.1	1360	
		1480	137	45.5	135.9	56.2	135.8	70.6	135.6	84.3	135.1	112.5	134.9	118.7	1480	

MSR-MJ Series Compact Package Unit Dimensions

Integrated Compact Design (MSR-50MJ ~ MSR-150MJ)

MSR-MJ Series Compact Package Unit Outline & Dimensions

Anchor Bolt Preformed Holes



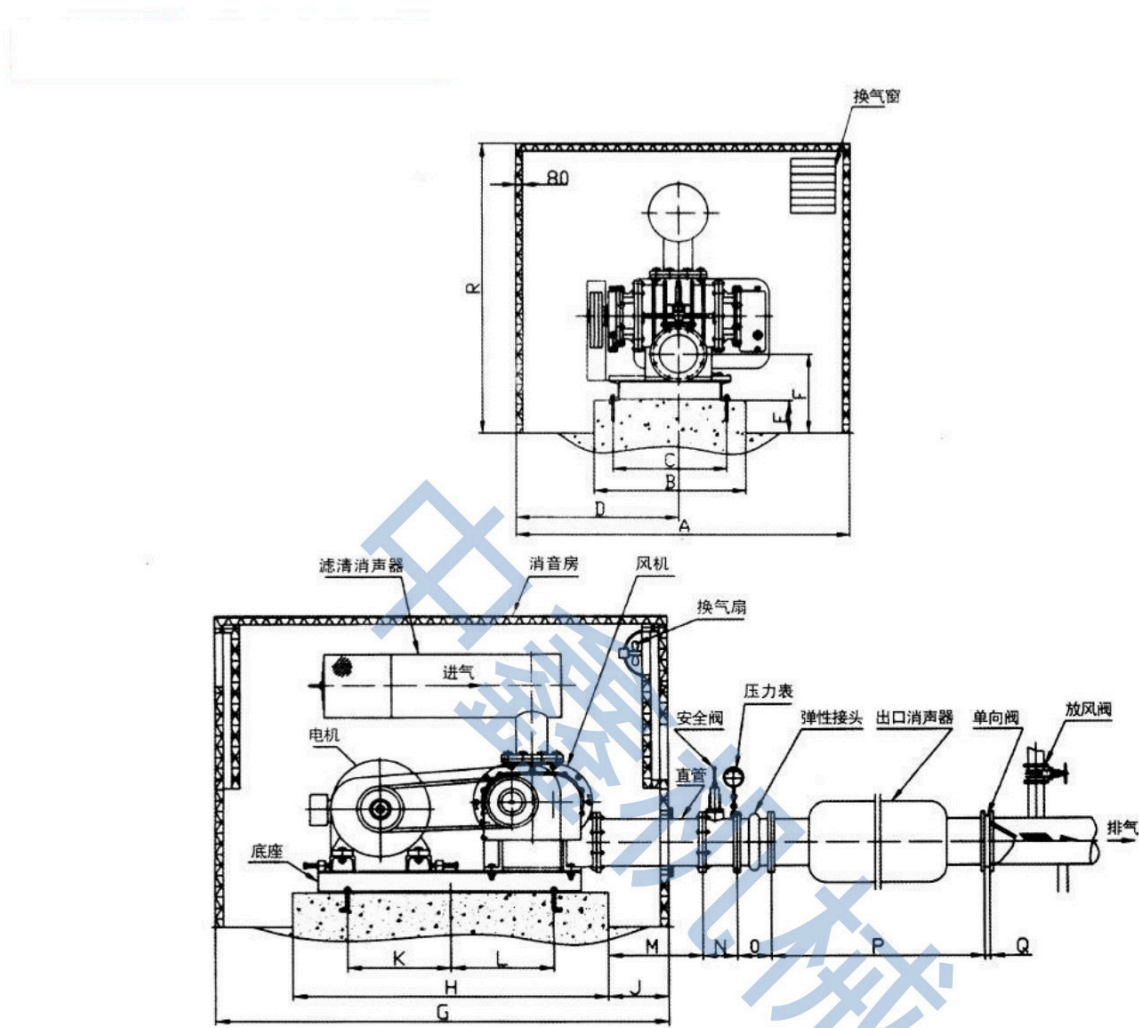
Model	Bore	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	WT(kg)
MSR-50	50A	380	90	105	120	19	450	240	578	450	970	125	320	200	560	185	90	100	18	100	
MSR-65	65A	450	100	115	130	19	480	240	615	500	1050	140	360	240	650	205	90	100	18	110	
MSR-80	80A	500	110	135	140	19	500	250	680	530	1150	150	380	260	700	220	90	100	18	150	
MSR-100	100A	540	110	150	140	19	520	265	707	600	1200	200	490	370	780	260	90	100	18	180	
MSR-125	125A	600	120	165	150	21	560	280	777	710	1380	215	490	370	860	295	90	120	18	280	
MSR-150	150A	760	130	180	150	24	620	340	881	860	1565	250	610	470	1060	375	100	120	18	430	
MSR-175	150A	850	130	180	150	24	620	340	881	950	1565	320	720	580	1150	470	100	120	18	680	
MSR-200B	200A	950	150	190	160	29	750	380	1095	980	1870	325	670	530	1250	425	100	120	18	740	
MSR-200	200A	1050	150	190	160	29	750	380	1095	1080	1920	304	775	640	1400	525	100	140	18	980	
MSR-250B	250A	1050	160	230	250	30	900	400	1280	1300	2250	357	870	750	1400	641	100	140	18	1350	
MSR-250	250A	1340	160	230	250	30	900	400	1320	1258	2300	460	970	800	1900	608	140	180	26	1858	
MSR-300	300A	1340	160	245	250	40	950	420	1460	1433	2480	375	970	800	1900	756	140	180	26	2356	

Notes: 1. Weight does not include motor. 2. Space-saving integrated design with belt-tensioning mechanism and silencer base. 3. Outlet silencer T1 or T2 optional.

MSR Series Acoustic Silencing Enclosure

Noise Reduction Soundproof Enclosure

MSR Series Acoustic Silencing Enclosure Outline & Dimensions



Model	Bore	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	WT(kg)
MSR-50	50A	1200	470	270	500	100	225	1300	660	200	-	-	300	120	105	610	19	1300
MSR-65	65A	1200	510	310	500	100	235	1400	750	200	-	-	300	130	115	710	19	1300
MSR-80	80A	1400	530	330	600	100	250	1600	800	300	-	-	400	140	135	910	19	1600
MSR-100	100A	1400	640	440	600	100	260	1700	880	300	-	-	400	140	150	1200	19	1600
MSR-125	125A	1400	640	440	600	100	290	1800	960	300	-	-	400	150	165	1410	21	1600
MSR-150	150A	1600	750	550	700	100	310	2100	1160	350	-	-	450	150	180	1610	24	2000
MSR-175	150A	1600	856	656	700	100	360	2200	1250	350	-	-	450	150	180	1610	24	2000
MSR-200B	200A	1800	802	602	800	100	350	2350	1350	400	-	-	500	160	190	1810	29	2000
MSR-200	200A	1800	905	705	800	100	350	2600	1500	400	500	500	500	160	190	1810	29	2000
MSR-250B	250A	2200	1050	800	1000	100	430	2600	1600	300	500	500	500	250	230	2000	30	2000
MSR-250	250A	2400	1100	890	1100	100	470	3000	2000	400	745	745	500	250	230	2000	30	2200
MSR-300	300A	2400	1100	890	1100	100	470	3000	2000	400	745	745	500	260	245	2000	40	2200
MSR-350	350A	3000	1840	1376	1400	100	530	4000	2600	550	700	700	700	300	245	2000	45	2800

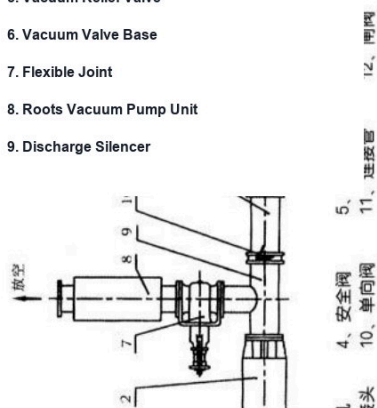
Notes: 1. Reduces noise by 15~20 dB(A). 2. Equipped with forced ventilation cooling fan and inspection access doors.

Roots Blower & Vacuum Pump Piping Layout Diagrams

System Installation & Component Layout

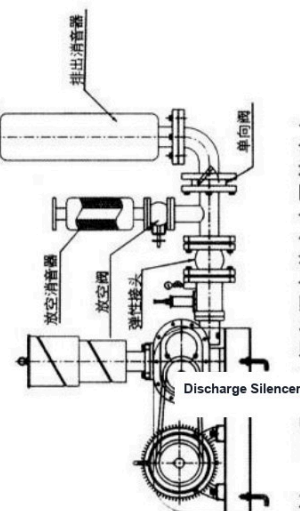
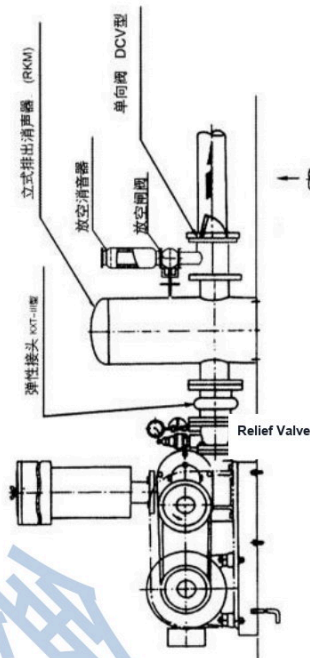
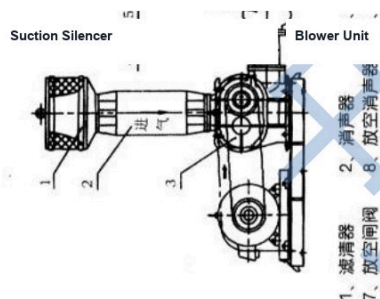
● Roots Vacuum Pump Piping Layout Diagram

1. Pipeline Air Filter
2. Elbow Pipe
3. Inlet Silencer
4. Shockproof Vacuum Gauge
5. Vacuum Relief Valve
6. Vacuum Valve Base
7. Flexible Joint
8. Roots Vacuum Pump Unit
9. Discharge Silencer



● Direct-Coupled Blower Piping Layout Diagram

● 罗茨鼓风机配管布置简图



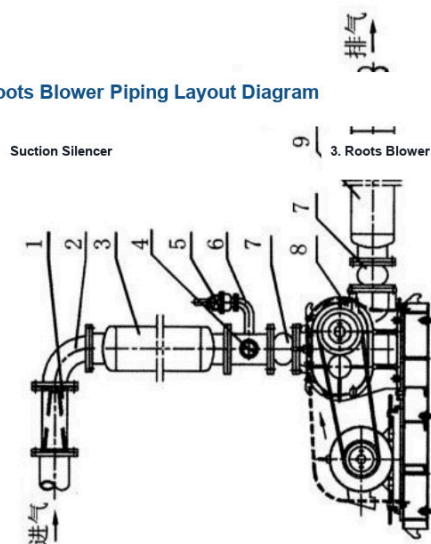
(注): DCV型
标准配置不包
引阀必须安装在水平管路上
空三通、放空消声器、阀门及管道部分

Main Pipeline / Flexible Joint / Check Valve

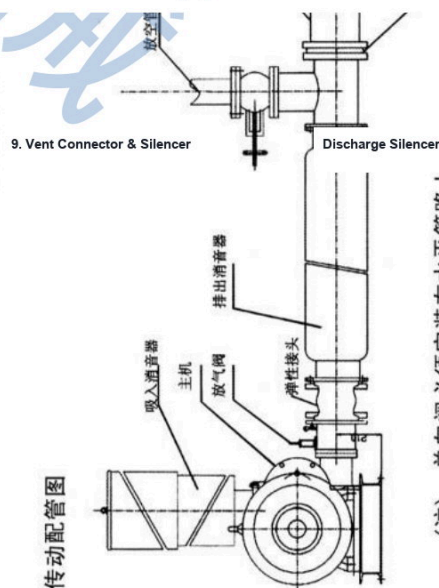
(Note): Check valve must be installed on horizontal piping.

● Standard Roots Blower Piping Layout Diagram

● 罗茨真空泵配管布置简图



1. 进口消声器
2. 前真空表
3. 罗茨真空泵
4. 真空阀座
5. 真空阀
6. 弹性接头
7. 罗茨真空泵
8. 出口消声器
9. 放空消声器



(注): 单向阀必须安装在水平管路上
标准配置不包括放空三通、放空消声器、
及管道部分

DCV Check Valve / Flexible Joint / Main Line

(Note): DCV check valve must be installed on horizontal piping.

Notes: 1. Check valve (DCV) must be installed on horizontal piping. 2. Standard scope excludes vent tee, vent silencer, and external valves.

ML Series Two-Lobe Performance Parameters (Part 1)

Heavy-Duty Two-Lobe Series (ML52LD ~ ML74WD)

QS: Inlet Condition Airflow Rate (m³/min) | La: Required Shaft Power (kW)

Model	Speed	Pressure (rpm) (kPa)		Airflow	Power Q (m³/min) (kW)			Motor Type	Weight (kg)	Rated Power (kW)							
L82WD	580	39.2	81.8	75.5	Y355M1-10	90	4900	L84WD	730	39.2	181	151	Y355L1-8	185	6030		
					JS126-10	95							JS136-8	180			
		49.0	78.4	94.3	Y255M2-10	110	4900			49.0	176	189	Y4003-8*	220	6030		
					JS127-10	115							JS137-8	210			
		730	9.8	123	23.8	Y250M-8	30			4900	980	9.8	270	51.5	Y315S-6	75	6030
						JS115-8	60								JS115-6		
	19.6		118	47.8	Y315S-8	55	4900		19.6	264		102	Y315L1-6	110	6030		
					JS117-8	80							JS117-6	115			
	29.4		114	71.7	Y315L1-8	90	4900		29.4	258		152	Y355M1-6	160	6030		
					JS117-8	80							JS126-6	155			
	980	39.2	109	94.8	Y315L2-8	110	4900		39.2	254	203	Y355L1-6	220	6030			
					JS126-8							JS128-6	215				
		49.0	107	119	Y355M1-8	132	4900		49.0	250	254	Y4003-6*	280	6030			
					JS127-8	130						JS137-6					
		9.8	168	31.9	Y250M-6	37	4900		9.8	259	49.8	Y315M-10	55	10250			
					JS115-6	75						JS116-10					
		580	19.6	164	63.8	Y315S-6	75		4900	580	19.6	251	99.5	Y355M2-10	110	10250	
						JS115-6								JS127-10	115		
			29.4	160	95.4	Y315L1-6	110		4900		29.4	244	149	Y3137-10	155	10250	
						JS117-6	115							JS138-10	180		
			39.2	156	128	Y355M1-6	160		4900		34.3	241	174	Y3137-10	155	10250	
						JS126-6	155							Y4501-10*	220		
		L83WD	580	9.8	122	24.2	Y315S-10		45	4900	730	9.8	332	62.8	Y315M-8	75	10250
							JS115-10		55						JS116-8	70	
19.6				117	47.9	Y315M-10	55	5530	19.6	324		126	Y355M2-8	160	10250		
						JS116-10	90						JS128-8	155			
29.4				111	78.1	Y355M1-10	90	5530	29.4	317		188	Y355L2-8	200	10250		
						JS125-10	80						JS137-8	210			
730	39.2		107	95.3	Y355M2-10	110	5530	34.3	314	219	Y4004-8*	250	10250				
					JS127-10	115					JS138-8	245					
	49.0		104	121	Y355L1-10	132	5530	39.2	311	250	Y4005-8*	280	10250				
					JS128-10	130					JS1410-8*	320					
	9.8		157	30.4	Y280S-8	37	5530	49.0	306	312	Y4502-8*	355	10250				
					Y315M-8	75					JS157-8*	320					
980	19.6		151	60.4	Y315M-8	75	5530	9.8	294	57	Y315L2-10	75	11850				
					JS116-8	70					JS117-10	65					
	29.4		147	90.5	Y315L2-8	110	5530	19.6	285	113	Y315L1-10	132	11850				
					JS126-8	130					JS128-10	130					
	39.2		141	120	Y355M1-8	132	5530	29.4	278	169	Y3138-10	180	11850				
					JS127-8	130					Y4501-10*	220					
	580	9.8	216	40.5	Y280S-6	45	5530	34.3	275	197	Y4501-10*	220	11850				
					Y315M-6	90					JS1410-10*	200					
		19.6	210	80.9	Y315M-6	95	5530	39.2	272	225	Y4502-10*	250	11850				
					JS116-6	95					Y3157-10*	260					
		29.4	205	122	Y315L2-6	132	5530	49.0	266	281	Y4504-10*	315	11850				
					JS125-6	130					JS158-10*	310					
L84WD	580	39.2	201	163	Y355M2-6	185	5530	730	9.8	376	70.8	Y315M-8	75	11850			
					JS127-6							JS117-8	80				
		49.0	197	203	Y355L1-6	220	5530		19.6	368	142	Y355M2-8	160	11850			
					JS128-6	215						JS128-8	155				
		9.8	154	31	Y315S-10	45	5530		29.4	360	213	Y4004-8*	250	11850			
					JS115-10							JS138-8	245				
	730	19.6	146	61	Y315L2-10	75	6030	34.3	357	248	Y4005-8*	280	11850				
					JS117-10	65					JS1410-8*	315					
		29.4	141	91	Y355M2-10	110	6030	39.2	354	283	Y4501-8*	315	11850				
					JS126-10	95					JS157-8*	320					
		39.2	137	121	Y355L1-10	132	6030	49.0	349	354	Y4503-8*	400	11850				
					JS128-10	130					JS158-8*	380					
	980	49.0	132	150	JS137-10	155	6030										
					Y280M-8	45											
		9.8	198	38.4	Y315L1-8	90	6030										
					JS125-8	95											
		19.6	191	75.8	Y315L1-8	90	6030										
					JS125-8	95											
29.4	185	185	Y355M1-8	132	6030												
			JS127-8	130													

Notes: Motor protection grade IP44/IP55, Voltage 380V. * Indicates 6000V high-voltage motor.

ML Series Two-Lobe Performance Parameters (Part 2)

Heavy-Duty Two-Lobe Series (ML82WD ~ ML94WD)

QS: Inlet Condition Airflow Rate (m³/min) | La: Required Shaft Power (kW)

Speed Model (rpm)	Airflow Pressure (kPa) (m³/min)	Shaft Power (kW) Motor Type & Rated Power (kW) Weight (kg)
L52LD	980	9.8 22.8 4.50 Y132M2-6 5.5 1240
		19.6 21.2 8.98 Y160L-6 11 1240
		29.4 20.2 13.6 Y180L-6 15 1240
		39.2 18.8 17.7 Y200L2-6 22 1240
		49.0 18.3 22.1 Y225M-6 30 1240
	1450	9.8 35.2 6.60 Y132M-4 7.5 1240
		19.6 33.5 13.1 Y160L-4 15 1240
		29.4 32.2 19.7 Y180L-4 22 1240
		39.2 31.2 26.7 Y200L-4 30 1240
		49.0 30.0 33.5 Y225S-4 37 1240
L53LD	980	9.8 28.8 5.69 Y160M-6 7.5 1310
		19.6 26.8 11.8 Y180L-6 15 1310
		29.4 25.8 17.4 Y200L2-6 22 1310
		39.2 24.6 22.9 Y225M-6 30 1310
		49.0 23.5 28.6 Y250M-6 37 1310
	1450	9.8 44.3 8.6 Y160M-4 11 1310
		19.6 42.8 17.0 Y180M-4 18.5 1310
		29.4 41.2 25.6 Y200L-4 30 1310
		39.2 39.8 33.8 Y225S-4 37 1310
		49.0 38.8 42.3 Y250M-4 55 1310
L62LD	730	9.8 31.8 6.42 Y160L-8 7.5 1960
		19.6 29.2 13.1 Y200L-8 15 1960
		29.4 27.6 19.5 Y225M-8 22 1960
		39.2 25.8 25.9 Y250M-8 30 1960
		49.0 24.3 32.6 Y280M-8 45 1960
	980	9.8 43.9 8.60 Y160L-6 11 1960
		19.6 41.8 17.5 Y200L2-6 22 1960
		29.4 40.5 26.0 Y225M-6 30 1960
		39.2 38.4 34.6 Y280S-6 45 1960
		49.0 36.9 43.3 Y280M-6 55 1960
	1450	9.8 67.4 13.0 Y160L-4 15 1960
		19.6 65.2 25.8 Y200L-4 30 1960
		29.4 63.4 38.4 Y225M-4 45 1960
		39.2 61.8 51.2 Y250M-4 55 1960
		49.0 60.3 63.8 Y280S-4 75 1960
		59.0 58.8 76.6 Y280M-4 90 1960
L63LD	730	9.8 39.6 8.05 Y180L-8 11 2300
		19.6 37.3 16.3 Y225S-8 18.5 2300
		29.4 35.1 24.3 Y250M-8 30 2300
		39.2 33.4 32.3 Y280S-8 37 2300
		49.0 31.7 40.3 Y280M-8 45 2300
	980	9.8 55.2 11.2 Y180L-6 15 2300
		19.6 52.7 21.8 Y225M-6 30 2300
		29.4 50.7 32.5 Y250M-6 37 2300
		39.2 49.2 43.3 Y280M-6 55 2300
		49.0 47.2 54.0 Y315S-6 75 2300
	1450	9.8 84.6 16.2 Y180M-4 18.5 2300
		19.6 82.1 32.1 Y225S-4 37 2300
		29.4 80.1 48.0 Y250M-4 55 2300
		39.2 78.3 63.9 Y280S-4 75 2300
		49.0 76.6 79.8 Y280M-4 90 2300
		59.0 74.9 96.6 Y280M-4 110 2300
L72WD	730	9.8 64.6 12.9 Y200L-8 15 3300
		19.6 60.9 25.8 Y250M-8 30 3300
		29.4 58.2 38.8 Y280M-8 45 3300
		39.2 56.2 51.2 Y315S-8 55 3300
		49.0 53.4 63.3 Y315M-8 75 3300
	980	9.8 89.2 17.6 Y200L2-6 22 3300
		19.6 85.8 34.5 Y250M-6 37 3300
		29.4 82.9 51.6 Y280M-6 55 3300
		39.2 80.8 68.6 Y315S-6 75 3300
		49.0 78.7 85.7 Y315M-6 90 3300
L73WD	730	9.8 76.9 15.3 Y225S-8 18.5 3470
		19.6 73.7 30.7 Y280S-8 37 3470
		29.4 70.7 45.8 Y315S-8 55 3470
		39.2 67.8 60.7 Y315M-8 75 3470
		49.0 65.8 75.8 JS116-8 90 3470
	980	9.8 107 20.8 Y200L2-6 22 3470
		19.6 104 40.8 Y280S-6 45 3470
		29.4 99.9 60.9 Y315S-6 75 3470
		39.2 97.6 81.4 Y315M-6 90 3470
		49.0 94.9 101.6 Y315L1-6 110 3470
L74WD	730	9.8 92.2 18.5 Y225M-8 22 3680
		19.6 88.3 36.5 Y280M-8 45 3680
		29.4 85.2 54.3 Y315M-8 75 3680
		39.2 82.5 72.3 JS115-8 90 3680
		49.0 79.8 90.4 JS117-8 110 3680
	980	9.8 128 24.6 Y225M-6 30 3680
		19.6 124 48.6 Y280M-6 55 3680
		29.4 121 72.8 Y315M-6 90 3680
		39.2 118 96.9 JS116-6 95 3680
		49.0 115 122 Y315L1-6 110 3680
L81WD	580	9.8 74.3 15.2 Y315S-10 45 4150
		19.6 69.9 30.2 JS115-10 45 4150
		29.4 66.3 44.9 Y315M-10 55 4150
		39.2 62.7 59.9 Y315L2-10 75 4150
		49.0 60.1 74.9 JS117-10 65 4150
	730	9.8 95.8 18.9 Y225M-8 22 4150
		19.6 92.3 37.9 Y280M-8 45 4150
		29.4 88.1 56.5 Y315M-8 75 4150
		39.2 85.2 75.7 JS116-8 70 4150
		49.0 81.5 94.6 Y315L1-8 90 4150
L82WD	580	9.8 133 25.5 Y225M-6 30 4150
		19.6 129 50.8 Y280M-6 55 4150
		29.4 125 75.8 Y315M-6 90 4150
		39.2 122 102 JS116-6 95 4150
		49.0 119 127 Y315L1-6 110 4150
L82WD	580	9.8 94.8 18.9 Y315S-10 45 4900
		19.6 88.5 37.4 JS115-10 45 4900
		29.4 85.3 56.8 Y315M-10 55 4900
		39.2 82.5 75.8 Y315L2-10 75 4900
		49.0 80.1 96.6 JS117-10 65 4900

Notes: Motor protection grade IP44/IP55, Voltage 380V. * Indicates 6000V high-voltage motor.

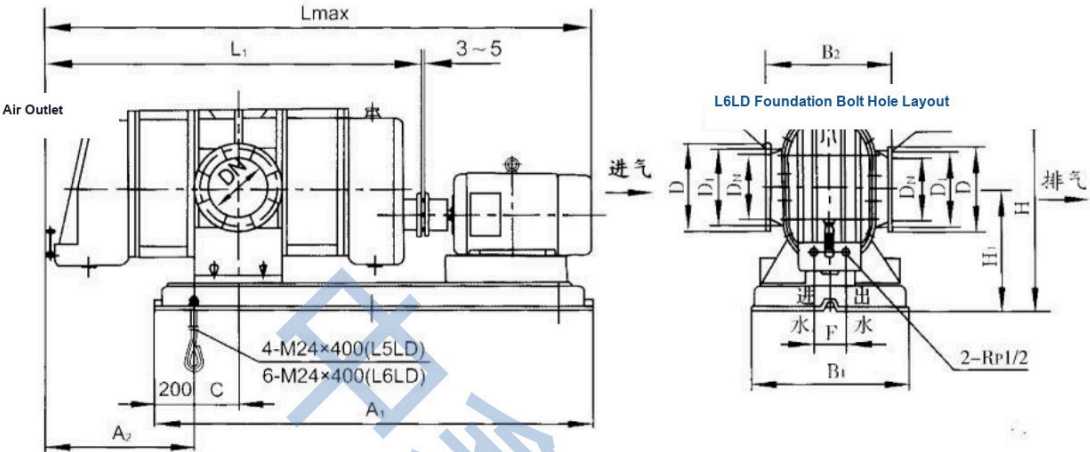
ML5-ML6LD Two-Lobe Roots Blower Outline & Dimensions

Belt Drive Models (ML52LD ~ ML64LD)

ML5-ML6LD Two-Lobe Roots Blower Installation Drawing

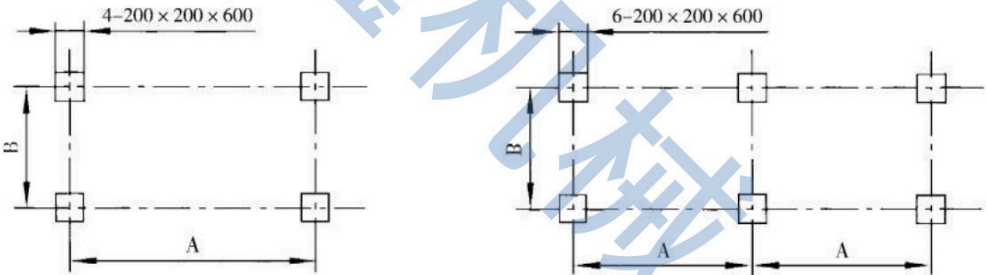
Air Inlet

L5LD Foundation Bolt Hole Layout



L5LD型地脚螺栓孔布置图

L6LD型地脚螺栓孔布置图



Model	A	A1	A2	B	C	D	E	F	G	H	K	L	M	N	P	Q	WT(kg)
风机型号	A	A1	A2	B	B1	B2	C	F	H	H1	L1	Lmax	DN	D1	D	n-d	配用电机型号
L52LD	1000	1400	692.5	610	660	600	0	140	830	520	1330	2047	200	280	320	8-φ17.5	Y132M,Y160L,Y180L
	1170	1570		610	660		0					2267					Y200L,Y225S,Y225M,Y250M
L53LD	1170	1570	657	610	660	600	83	140	830	520	1425	2207	250	335	375	12-φ17.5	Y160M,Y180M,Y180L,Y200L
	1440	1840		610	660		83					2482					Y225S,Y225M,Y250M
L62LD	672	1745	731.5	740	790	720	46	150	980	600	1518	2455	250	335	375	12-φ17.5	Y160L,Y200L,Y225M,Y250M
	845	2090		740	790		46					2797					Y280S,Y280M,Y315S,JS15-6
L63LD	745	1890	730.5	740	790	720	102	150	980	600	1628	2565	300	395	440	12.φ22	Y180L,Y180M,Y225SM,Y250M
	930	2260		740	790		102					2977					Y280S,Y280M,Y315S,Y315M JS114-4JS115-6,JS116-6,JS116-8

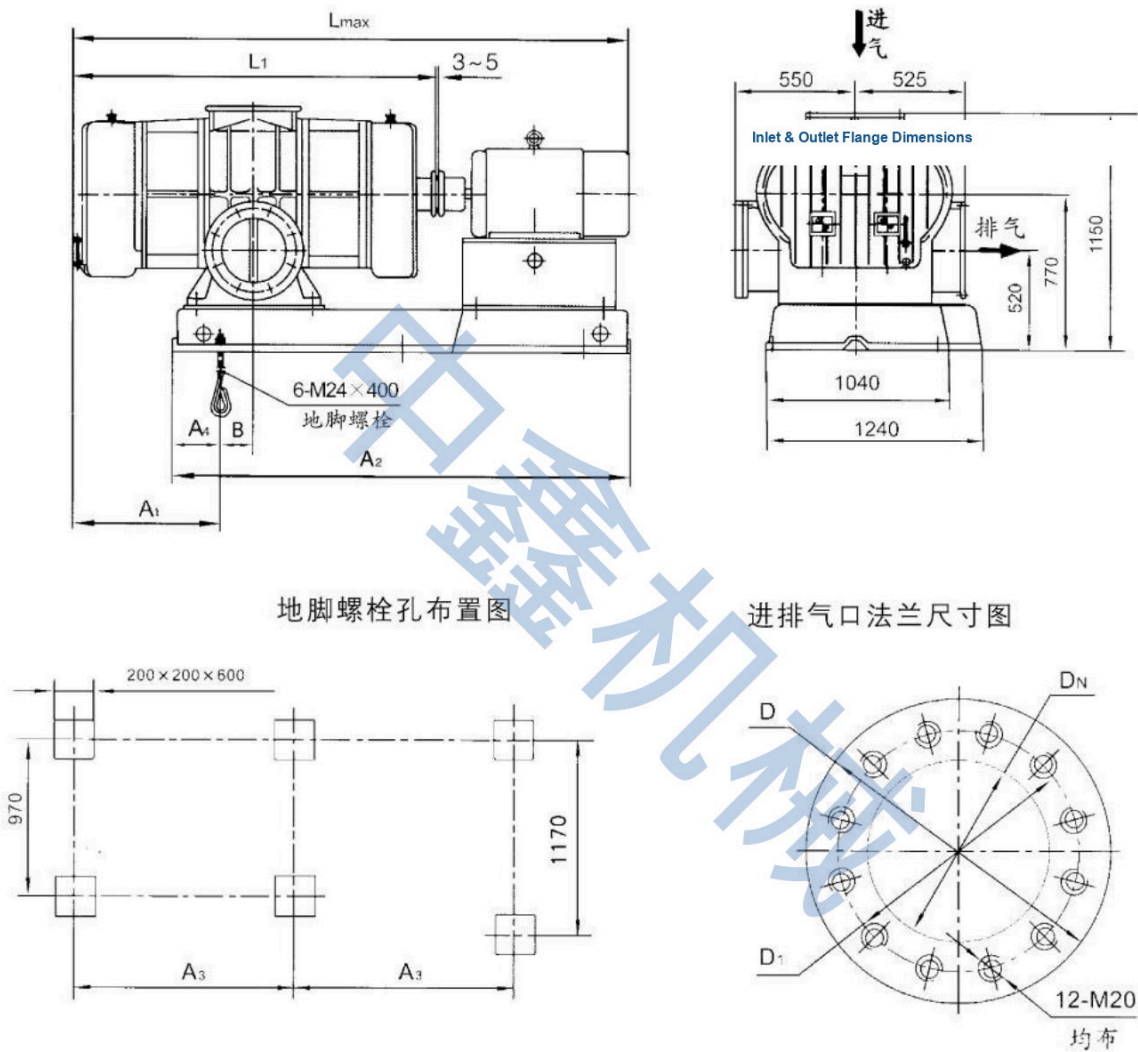
Notes: When differential pressure ΔP > 49 kPa, an auxiliary air cooler must be installed.

ML7WD Two-Lobe Roots Blower Outline & Dimensions

Direct-Coupled Models (ML72WD ~ ML74WD)

- ML7WD Two-Lobe Roots Blower Installation Drawing & Flange Dimensions

Foundation Bolt Hole Layout



地脚螺栓孔布置图 进排气口法兰尺寸图

Model	A1	A2	A3	B1	B2	C	D	E	F	G	H	J	K	L	M	N	WT(kg)
L72WD	772	2320	810	350	45	1686	3055	300	395	440							
L73WD	825	2600	850	450	45	1791	3140	350	445	490							
L74WD	882	2600	850	450	45	1916	3265	350	445	490							

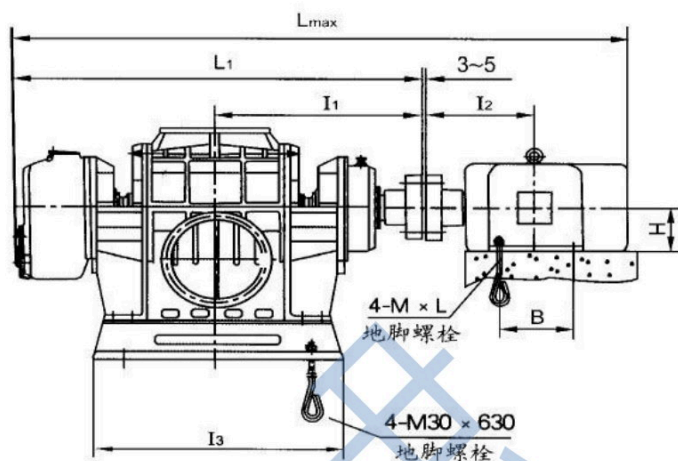
Notes: Flange standards conform to GB/T 9119 (PN 1.0 MPa). Equispaced bolt holes.

ML8WD & ML9WD Two-Lobe Roots Blower Outline & Dimensions

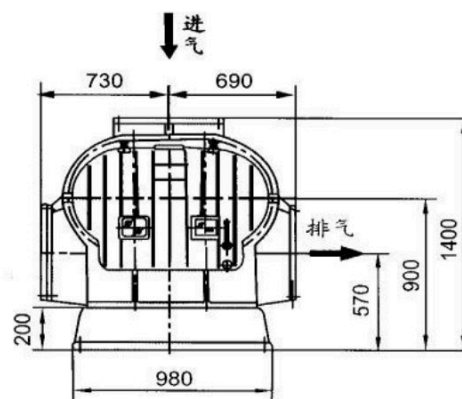
Large-Scale Industrial Models (ML82WD ~ ML94WD)

ML8WD Two-Lobe Roots Blower Installation Drawing & Dimensions

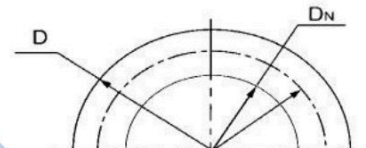
Foundation Bolt Layout & Flanges



地脚螺栓孔布置图



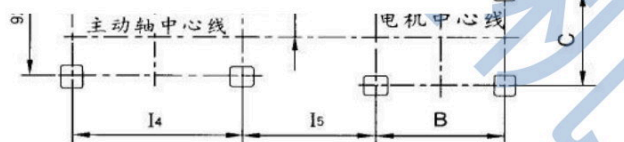
进、排气口法兰尺寸图



Foundation Bolt Layout & Flanges



ML9WD Two-Lobe Roots Blower Installation Drawing & Dimensions



Model	A1	A2	A3	B1	B2	C	D	E	F	G	H	J	K	L	M	N	WT(kg)
L81WD		970		1030		440		3623		1994		350		445		490	12-M20
L82WD		1035		1160		570		3823		2124		400		495		540	8-M20
L83WD		1120		1330		740		3997		2294		450		550		595	8-M20
L84WD		1220		1530		940		4418		2494		500		600		645	10-M20

配套电机尺寸表

电机 型号	Y225	Y250	Y280		Y315			Y355		JS				JS		JS	
	M	M	S	M	S	M	L	M	L	115-6	115-8.10	116-8.10 117-8.10	116-6 117-6	126 127	127 128	136-8 137-8.10	137-6
尺寸																	
C	356	406	457		508			610		620				710		790	
B	311	349	368	419	406	457	508	560	630	490		590		550	650	660	760
H	225	250	280		315			355		375				450		500	
M×L	M16×300	M20×300		M24×400			M24×400		M20×300				M24×400				
L2	446.5	484.5	516	541.5	594	619.5	645	709	744	710	660	710	760	770	820	840	890
L3	1046	1065	1087		1146			1184		1220	1170		1220	1250		1265	

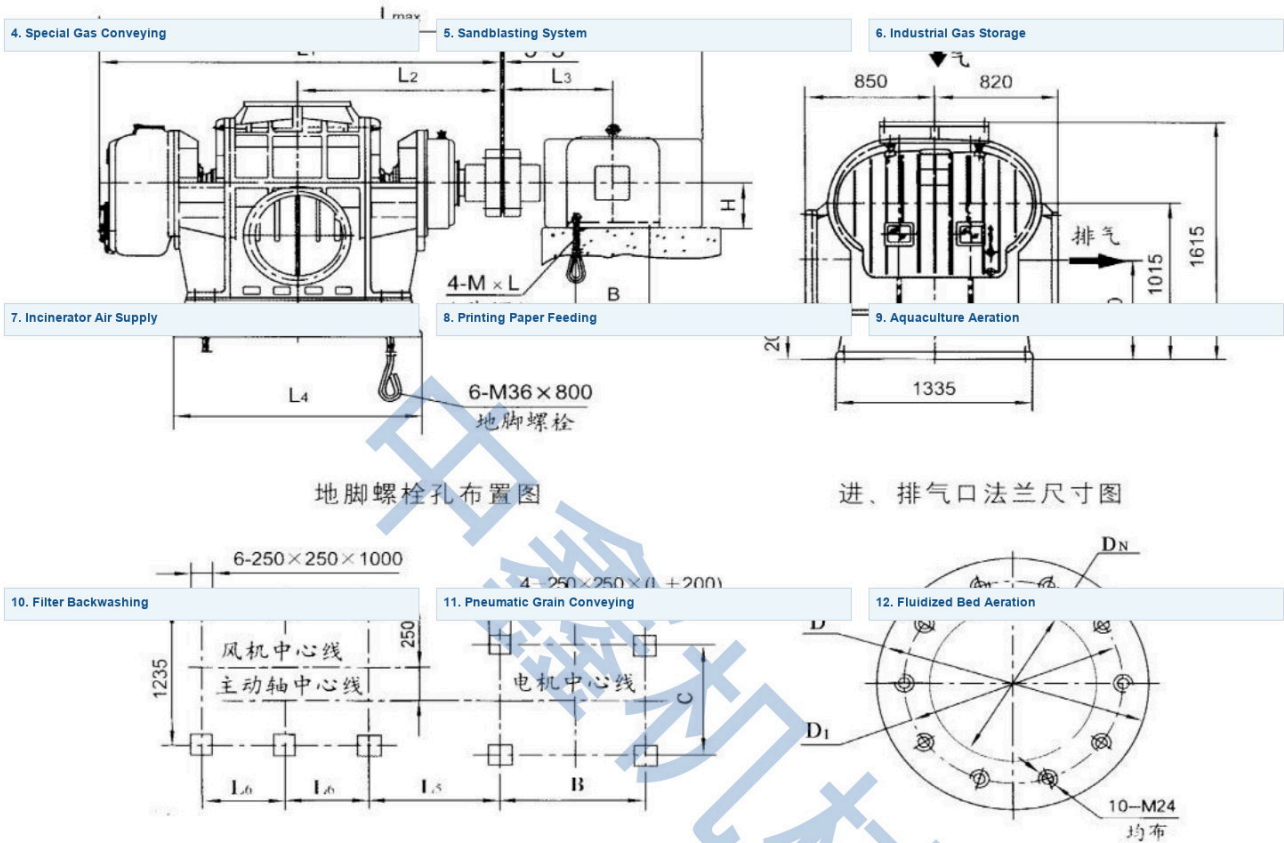
Notes: Motor dimensions correspond to standard Y-series and high-voltage 6000V motors.

Typical Industrial Applications & Noise Characteristics

Application Scenarios & Engineering Acoustic Data

Typical Industrial Applications (12 Core Scenarios)

1. Gas Combustion Support
2. Wastewater Treatment
3. Electroplating Tank Agitation



MSR Series Roots Blower Noise Level Curves & Acoustic Data

风机型号	Lmax	L1	L2	L4	L6	DN	D2	D2
L93WD	4915	2726	1335	1720	800	550	655	705
L94WD	5055	2866	1405	1860	870	600	705	755

配套电机尺寸表

电机 型号 尺寸	Y315		Y355		Y400	Y450	JS						
	M	L	M	L			116 117	127 128	137	138	1410-10	1410-8	157 158
C	508		610		710	800	610	710	790		940		1000
B	457	508	560	360	1000	1120		650	660	760	870	970	820
H	315		355		400	450	355	450	550		560		630
M×L	M24×400				M30×630			M24×400			M36×800		
L2	619.5	645	709	744	1050	1170		820	840	890	1005	1055	950
L3	931		969		1090	1150	969	1035	1050		1110		1080

Notes: 1. Noise measured at 1.0m distance with standard silencer attached. 2. Noise levels vary with piping length, bends, and ambient environment.