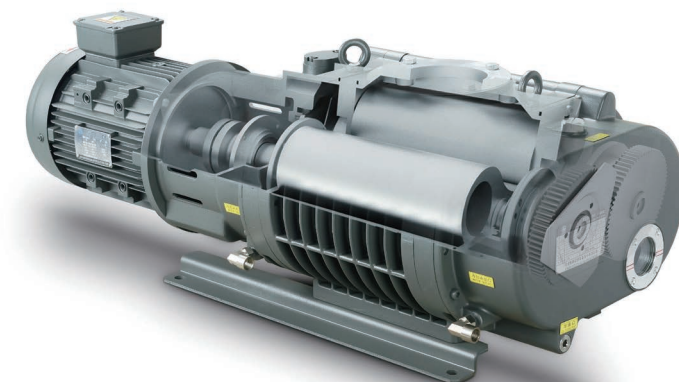


ROOTS VACUUM PUMP



FEATURES

- The use of oil-free intermediate seal, multiple sealed way to ensure the high clean vacuum environment in the rotor chamber.
- Advanced processing to ensure the good geometrical symmetry of the rotors, as well as low noise and long service life.
- Special shaft seal is used to achieve the long stable running without oil leakage.
- Compact structure, light weight, and small volume.

DIRECT DRIVE TECHNICAL PARAMETER

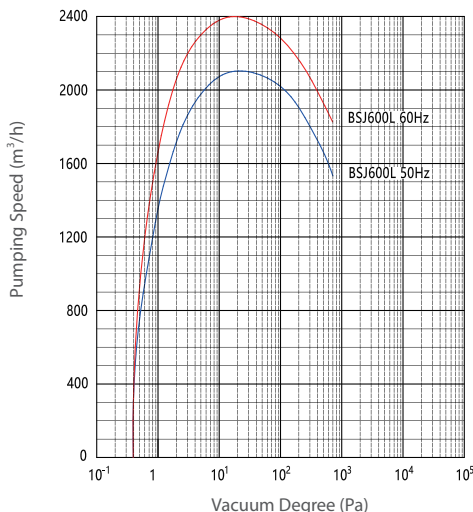
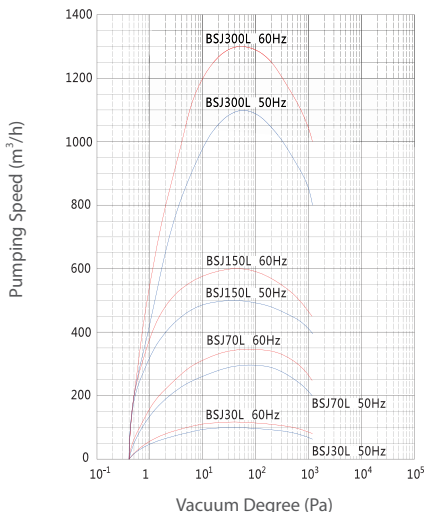
MODEL			BSJ30L	BSJ70L	BSJ150L	BSJ300L	BSJ600L
Pumping Rate	50Hz	m ³ /h (L/min)	100 (1667)	280 (4670)	500 (8330)	1000 (16667)	2000 (33330)
	60Hz	m ³ /h (L/min)	120 (2000)	330 (5500)	600 (10000)	1200 (20000)	2400 (40000)
Max Intake Pressure (continuous operation)	50Hz	Pa	1.2X10 ³		1.3X10 ³		8.0X10 ²
	60Hz	Pa	9.3X10 ²		1.1X10 ³		6.7X10 ²
Max allowed differential pessure	50Hz	Pa	4.0X10 ³		7.3X10 ³		5.6X10 ³
	60Hz	Pa	3.3X10 ³		6.0X10 ³		4.7X10 ³
Ultimate Pressure		Pa			4.0X10 ⁻²		
Motor Power (2P)	Three Phase	kW	0.4	0.75	2.2	3.7	7.5
Voltage		V			380,400		
Oil Filling		L	0.4	0.8	1.6	2.0	4.0
Flow Rate	Flow	L/min	-	2	2	3	3
	Differential Pressure	MPa	-			0.1	
	Water Temp.	°C	-			5~30	
Inlet		-	VG50	VG80	VG80	VG100	VG200
Outlet		-	VF50	VF80	VF80	VF80	VF200
Ambient Temp.		°C			5~40		
Weight		kg	30	51	80	115	227

- The value of 'ultimate pressure' in the sheet is measured by Pirani gauge when the Baosi special pump oil is used, and the value should be 4X10⁻³, if the Mcleod gauge is used.

DIRECT DRIVE PUMP RATE CURVE

Vacuum gauge: Pirani vacuum gauge

Vacuum pump oil: BAOSI vacuum special oil BSO-46



HYDRAULIC COUPLING TECHNICAL PARAMETER

MODEL	BSJ600LC		BSJ1200LC	
Pumping Rate	50Hz	m ³ /h	2590	4140
	60Hz	m ³ /h	3110	4985
Max Intake Pressure (continuous operation)	50Hz	Pa	1.0×10 ⁵	
	60Hz	Pa	1.0×10 ⁵	
Max allowed differential pressure	50Hz	Pa	8.0×10 ³	6.0×10 ³
	60Hz	Pa	6.7×10 ³	5.0×10 ³
Ultimate Pressure		Pa	0.4	
Motor Power (2P)	Three Phase	kW	11	
Lubricating oil specification		-	BSO-46	
Gear Cover		L	3.5	
Hydraulic Drive		L	6.5	
Shaft Seal Reservoir		L	1.5	
Flow Rate	Flow	L/min	6	
	Differential Pressure	MPa	0.2~0.6	
	Water Temp.	°C	5~35	
Weight		kg	350	420
Inlet		-	ISO160	ISO250
Outlet		-	ISO100	

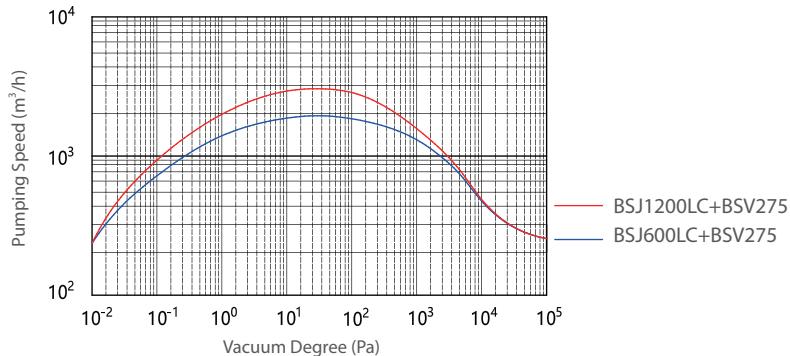
- Depending on the performance of the rough pump, the data in the table is the data used in combination with the standard rough pump.
- The ultimate pressure is a value measured with a Pirani vacuum gauge, and is 4 × 10⁻² Pa as measured by a Mcleod vacuum gauge.
- The cooling water inlet temperature must be 5 to 35 °C. When the cooling water temperature is too low, the pump should be used in an environment where condensation does not occur.

HYDRAULIC COUPLING PUMP RATE CURVE

Power: 380V-50Hz

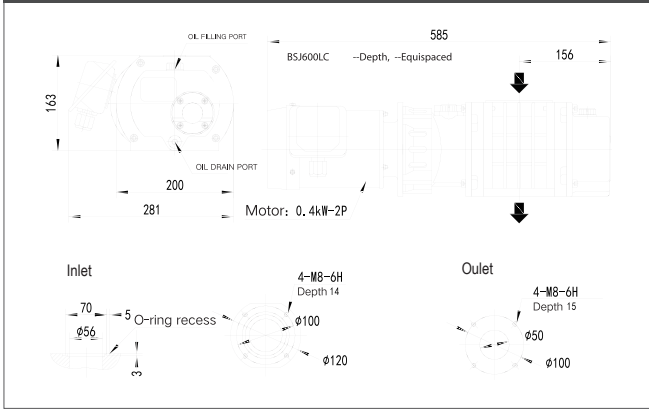
Vacuum gauge: Pirani vacuum gauge

Vacuum pump oil: special oil for BAOSI vacuum pump

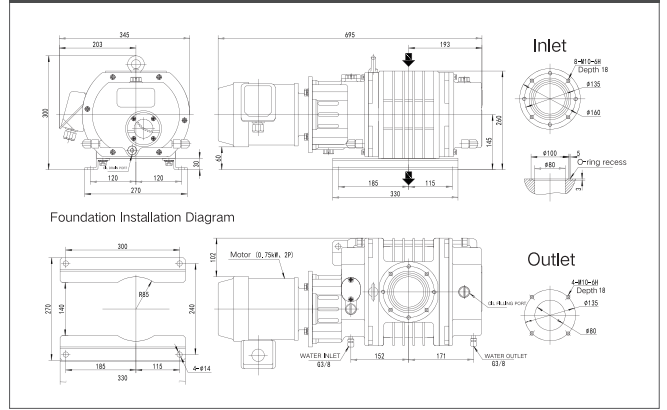


INSTALLATION DIAGRAM

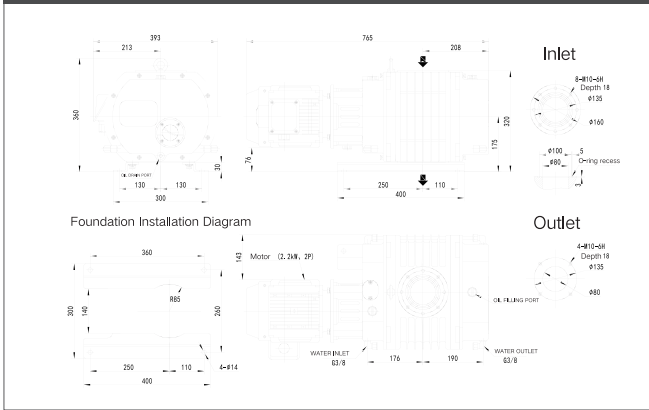
BSJ30L



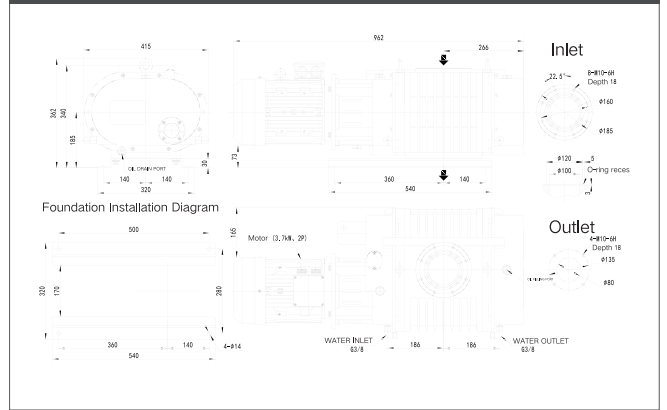
BSJ70L



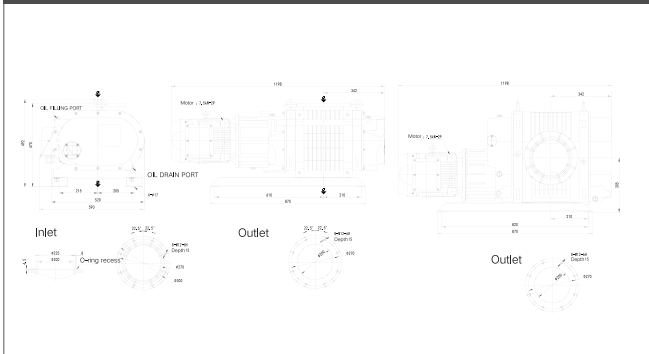
BSJ50L



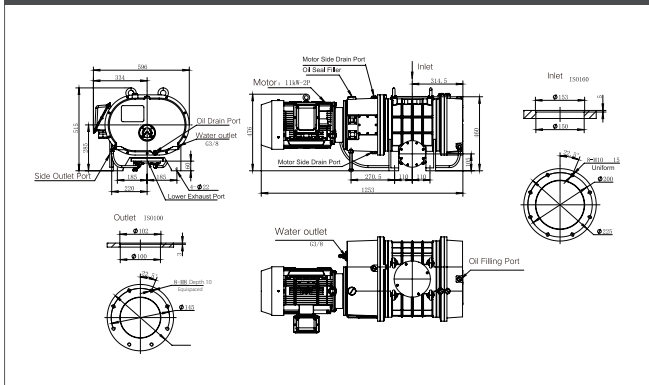
BSJ300L



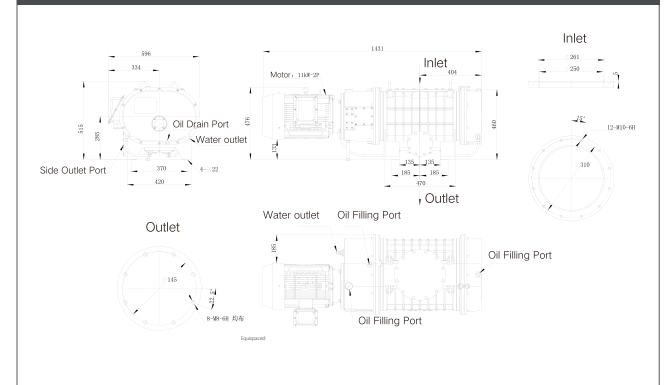
BSJ600L



BSJ600LC



BSJ1200LC



VACUUM PUMP SYSTEM



APPLICATIONS

- Evaporation coating, sputtering coating, ion plating, optical coating etc.
- Single crystal furnace, polycrystalline furnace, vacuum heat treatment furnace, sintering furnace, annealing furnace, hardening furnace etc.
- Vacuum drying, freeze drying, leaking detection equipment and system, gas recovery system, LC injection etc.
- Refrigerator, air conditioners, central air-conditioning, LED, Back light automatic pumping line, exhaust equipment etc.

TECHNICAL PARAMETER OF ROOTS PUMP SYSTEM

Parameter	MODEL	JZ70A	JZ150C	JZ300H
		JZ70B JZ70C JZ70D	JZ150D	
Ultimate Pressure	Pa		4X10 ⁻²	
System	Roots Pump	BSJ70L	BSJ150L	BSJ300L
	Oil Rotary	BSV30	BSV60	BSV275
		BSV40	BSV60	BSV275
		BSV60	BSV90	BSV275
Motor (kW)	Roots pump (2P)	0.75	2.2	3.7
	Oil Rotary Pump(4P)	1.1	2.2	7.5
		1.5	2.2	7.5
		2.2	3.7	7.5
Oil Filling (L)	Standard oil of Roots pump	0.8	1.6	2
	Standard oil of Oil Rotary pump	1.2~2.8	2.5~4.2	23~28
		2.5~4.2	2.5~4.2	23~28
Cooling Water	Cooling Way	Roots Pump - Oil Rotary -	Water Cooling - -	Water Cooling Water Cooling
	Water Pressure			≤ 0.3 MPa(Gauge Pressure)/0.1MPa
	In-Out Water Differential Pressure			
	Water Temp.(°C)		5~30	
Air Intake (OD)		2	4	6
Air Outlet (OD)		VG80	KF40	VG100
Options		1 Electric Cabinet; 2 Vacuum Gauge; 3 Suction Port Flange; 4 Filter; 5 Switch Of Cooling Water		