

ZJ, ZJP, ZJQ

Технические характеристики

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ZJ Roots Vacuum Pump

Description: ZJ Series Roots Vacuum Pump is a positive displacement pump, also known as mechanical booster pump, which is one of the main equipment to obtain the middle and high vacuum degree.

ZJ Series Roots Vacuum Pump is a positive displacement pump, also known as mechanical booster pump, which is one of the main equipment to obtain the middle and high vacuum degree. Its working principle is similar to roots blower, which use two figure 8 rotor synchronous rotation in the pump shell, so as to complete the suction and exhaust process.

Features:

The main advantage of ZJ series roots vacuum pump is a high pumping speed at the lower inlet pressure with high ultimate vacuum. Since the pump running parts have no contact, such as rotors and the end cover, so the pump performance is stable and long service time. low maintenance cost

Applications:

They're widely used in vacuum smelting, vacuum welding, vacuum casting, vacuum coating, vacuum drying, vacuum dynamic experiment and chemical pharmaceutical, electric vacuum device manufacturing industries.

In view of the chemical, pharmaceutical and other industries require huge vapor degassing capability. the sealing structure of ZJ roots vacuum pump chamber and the bearing chamber has improved, which greatly reducing the bearing cavity and gear cavity oil emulsification. Thus, ZJ roots vacuum pump is more suitable for pumping large quantities of water vapor and solvent with water ring vacuum pump.

Model		ZJ-150	ZJ-300	ZJ-600	ZJ-1200
Pumping speed (L/s)		150	300	600	1200
Ultimate pressure (Pa)	1stage piston pump as backing pump	5×10-2			
	2 stage piston pump as backing pump	1×10-1			
Max. allowable diff. pressure (Pa)		8×103		5×103	
Motor rotary speed (RPM)		3000			
Suitable motor power (kW)		2.2	4	7.5	11
Flange size	Inlet (mm)	100	150	200	250
	outlet (mm)	100	150	200	200
Cooling water consumption (L/h)		120		150	
Allowable temperature (°C)		100			
Vacuum pump oil		100#			
Weight(without motor) (kg)		195	250	760	860



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ZJP series roots vacuum system is non oil seal type. So, it can completely avoid oil returning , oil spills and soot pollution, etc.

odel		ZJP- 70	ZJP- 150	ZJP- 300	ZJP- 600	ZJP- 1200	ZJP- 2500
Pumping speed (L/s)		70	150	300	600	1200	2500
Ultimate pressure (Pa)		5×10-2					
Diff. pressure at overflow valve (Pa)		4×103			2. 7×103		
Motor rotary speed (RPM)		3000					
Suitable motor power (kW)		1.1	2.2	4	7.5	11	22
Flange size	inlet (mm)	80	100	150	200	250	320
	outlet (mm)	80	100	150	200	200	320
Cooling water consumption (L/h)		120			150		200
Allowable temperature (°C)		100					
Vacuum pump oil		100#					
Weight(without motor) (kg)		110	205	265	780	880	1350



ZJQ Series Air-cooled Roots Vacuum Pump

Description: Apart from high-speed and small-size, Air-cooled Roots Vacuum Pump will not become over - temperature after continuous work under high pressure

The pump and the unit can reach a variety of extreme vacuum and working pressure. In the following cases, can use air pump itself or its system.

- ① the load is particularly large;
- ② pumping time is short;
- ③ coarse vacuum to high vacuum are required large pumping speed;
- ④ need to avoid the ordinary pump working medium occasions.

The pump and system can be widely used in vacuum smelting, vacuum drying, vacuum impregnation, vacuum distillation, vacuum degassing, aeronautical simulation test, gas transportation, vacuum suction and power station vacuuming and other vacuum operations.

Model	Ultimate Pressure		Capacity (L/s)	Rotation Speed(RPM)	Inlet&Outlet Diam.(mm)	The cooling Gas Inlet Diam	Max.Compression At Zero Throughput	Motor Power (kw)
	With Backing Pump	Without Backing Pump						
ZJQ-450	5*10 ⁻²	2*10 ⁴	450	990	200	2*Φ100	30	5.5~45
ZJQ-600	5*10 ⁻²	1.3*10 ⁴	600	1490	200	2*Φ100	40	7.5~60
ZJQ-900	5*10 ⁻²	2.0*10 ⁴	900	990	250	2*Φ160	32	11~90
ZJQ-1200	5*10 ⁻²	1.3*10 ⁴	1200	1490	250	2*Φ160	43	11~132
ZJQ-2500	5*10 ⁻²	2.0*10 ⁴	2500	990	400	2*Φ160	35	18.5~250
ZJQ-3750	5*10 ⁻²	1.3*10 ⁴	3750	1490	400	2*Φ160	45	30~250

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