



ZJP/ZJ Series Roots Vacuum Pump



Introduction:

ZJP 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.

Advantages:

- 1. Stable operation, less vibration, low noise
- 2.Less power consumption, good energy saving.
- 3. Rapid start and get the ultimate pressure in short time.
- 4.Pump cavity does not need lubricating oil, avoid oil vapor to pollute vacuum system, is not sensitive to tiny dust.
- 5.ZJP series roots vacuum pump is with overflow valve, automatically anti-overloading.

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 ZJP roots vacuum pump chamber and the bearing chamber has improved, which greatly reducing the bearing cavity and gear cavity oil emulsification. Thus, ZJP roots vacuum pump is more suitable for pumping large quantities of water vapor and solvent with water ring vacuum pump.

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







Technical Specification:

Technical Specification: Model			ZJ-150	ZJ-300) Z	J-600	ZJ-1200	
Pumping speed (L/s)			150	300		600	1200	
Ultimate pressure (Pa)			5×10 ⁻²					
Max. allowable diff. pressure (Pa)		Pa)	8×10 ³ 5×10 ³					
Motor rotary speed (RPM)			3000					
Suitable motor power (kW)			2.2	4		7.5	11	
Inlet (mm))	100	150		200	250	
Flange size	outlet (mm)		100	150		200	200	
Cooling			120			150		
Cooling water consumption (L/h)								
Allowable temperature (°C)			100					
Vacuum pump oil			Mineral 100 #					
Weight (without motor) (kg))	195	250		760	860	
Model		ZJP-70	ZJP-150	ZJP-300	ZJP-600	00 ZJP-1200 ZJP-2500		
Pumping speed (L/s)		70	150	300	600	600 1200 2500		
Ultimate pressure (Pa)		5×10 ⁻²						
Diff. pressure at overflow valve		8×10 ³	4×10³	5.3×10³	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)		-	1:	<u>1 </u>			200	
Allowable temperature (℃)			100					
Vacuum pump oil			Mineral 100					
Weigh t(without motor) (kg)		110	205	265	780	880	1350	

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