

Winner Vacuum Packing Pvt Ltd.

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Dry Vacuum Pump

Features:

· The product feature of screw rotor type vacuum pump

Hanbell PS Series vacuum dry pump which has gear transmission is equipped with coupling rotors, so the clearance between rotors can be minimum and the pump can be operated with out extra lubrication in the chamber; therefore, it's a oil free design compare



with other similar products. With the patented screw rotor profile, the sealing effect between rotors is excellent and the ultimate working pressure can reach 7.5 x 10-3 Torr. Because the discharge route of our design is shorter compare with other products, it can have better effect on removing dusts. Besides that all rotors have the special coating on them, so our vacuum pump can be used in some production process such as PECVD and Etching.

Precise temperature control

Hanbell screw rotor vacuum dry pump is equipped with new generation screw rotor and has been improved its cooling design by using a water tank to largely reduce the chamber temperature. Therefore it can precisely control the temperature inside the chamber and reduce the possibility of having debris inside the tank to improve the life time of vacuum pump.



· High safety by sealing motor design

PS series vacuum dry pump use patented sealing motor design which is cooled by cooling water can not only provide a good working temperature for motor to improve motor's life, but also avoid the risk of gas leakage when operating.

• Overall protection by micro controller

PS series vacuum pump can also be equipped with micro controller to monitor the motor current, motor temperature, chamber temperature, cooling water flow rate, nitrogen flow rate, and oil level of gear box to provide a better protection for vacuum pump. This function is really useful for photonics industry, semi conductive industry, solar energy and TFT-LCD industry which all have very high demand on product's quality assurance.



(TECHNICAL DATA FOR PS SERIES DRY VACUUM PUMP)

Model	Unit	PPPS 80	PS 160	PS 180	
	L/Min	1300/1600	2100/2600	2500/3000	
Pumping Speed (50 Hz/ 60 Hz)	M³/Hr	80/96	130/156	150/186	
	cfm	47/57	77/92	88/106	
	Torr	≤ 7.5x10 ⁻³			

Ultimate Pressure (50 Hz/60 Hz)		Mbar	≤ 1 x 10 ⁻²					
		Ра	≤ 1					
Canned Motor	Frequency	Hz	50/60					
	Voltage	V	220/440					
	Rated Power	Нр	4	6	6			
		Kw	2.98	4.47	4.47			
Connection	1. Inlet		NW-50					
	1. Outlet		NW-40					
	Pressure	kg/cm ²	2.0 ~ 4.0					
Cooling Water	Min.Flow	L/min	3 L/min. 15°c ~ 7 L/min 30° c					
	Temperature	°c						
	Connection		RC 3/8"					
	Pressure	Мра	0.15~0.2					
A 12	Dilute Flow	L/min	0~60					
N^2	Sealing Flow	L/min	0~20					
	Connection		Swagelok 1/4"					
Dim.	L xWxH	mm	814x380x66 3	895x410x678	920x430x650			
Weight		Kg	280	300	320			
Noise		db(A)	<68	<70	<70			
Control			SEMI E73~0299					
System max Leak Rate		MbarL /S	1x10 ⁻⁵					
Operation Temp.		°C	5°c~ 40°c					
Operation Moisture RH		RH	90%					

(Technical Data for PS Series DRY VACUUM PUMP)

Model		Unit	PS 302	PS 602	PS 902	PS 1302	PS 1802		
Pumping Speed (50 Hz/60 Hz)		L/Min	4167/5000	8300/10000	12500/15000	17500/21000	25000/30000		
		m³/Hr	250/300	500/600	750/900	1050/1260	1500/1800		
		cfm	147/177	294/353	441/530	618/742	883/1060		
Ultimate Pres	sure	Torr	≤ 7.5x10 4						
Mbar Pa			≤ 1x10 ⁻³						
			≤ 0.1						
	Frequency	Hz	50 / 60						
	Voltage	V	220 - 440						
	Power	Нр	4+4	4+4	6+4	6+6	6+6		
		Kw	2.98+2.98	2.98+2.98	4.47+2.98	4.47+4.47	4.47+4.47		
Connection	Inlet			ISO 100		ISO 160			
	Outlet		NW 40						
	Flow	L/min							
Cooling Water	Temperatur e	°C	3L/min 15°C - 7L/min 30°C						
	Pressure		2.0 - 4						
		kg/cm²							
	Connection		RC %"						
	Pressure	kg/cm²	0.5 - 1.0						
N2	Dilute Flow	L/min							

	Sealing Flow	L/min	0 -20 Swagelok 1/4"					
	Connection							
Dimension LxV	٧xH	mm	814x380x865	814x380x915	895x410x943	920x430x957	920x430x1030	
Weight		Kg	400	450	520	540	545	
Noise Level		db(A)			<70			
Interface			SEMI E 73-0299					
Pump leak Rat	te	Mbar L/S	1x10 ⁻⁵					
Ambient Temp).	°C	5°C− 40°C					
Operation Mois	sture	RH	90 %					