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Integrity, Innovation, Excellence



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Stock code: 002158

PERMANENT MAGNET VSD OIL-SEALED SCREW VACUUM PUMP

Energy-saving | High-efficiency | Safe

PA META series vacuum pump



Extraordinary Achievement

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The new PA META series of oil-sealed screw vacuum pumps from Hanbell

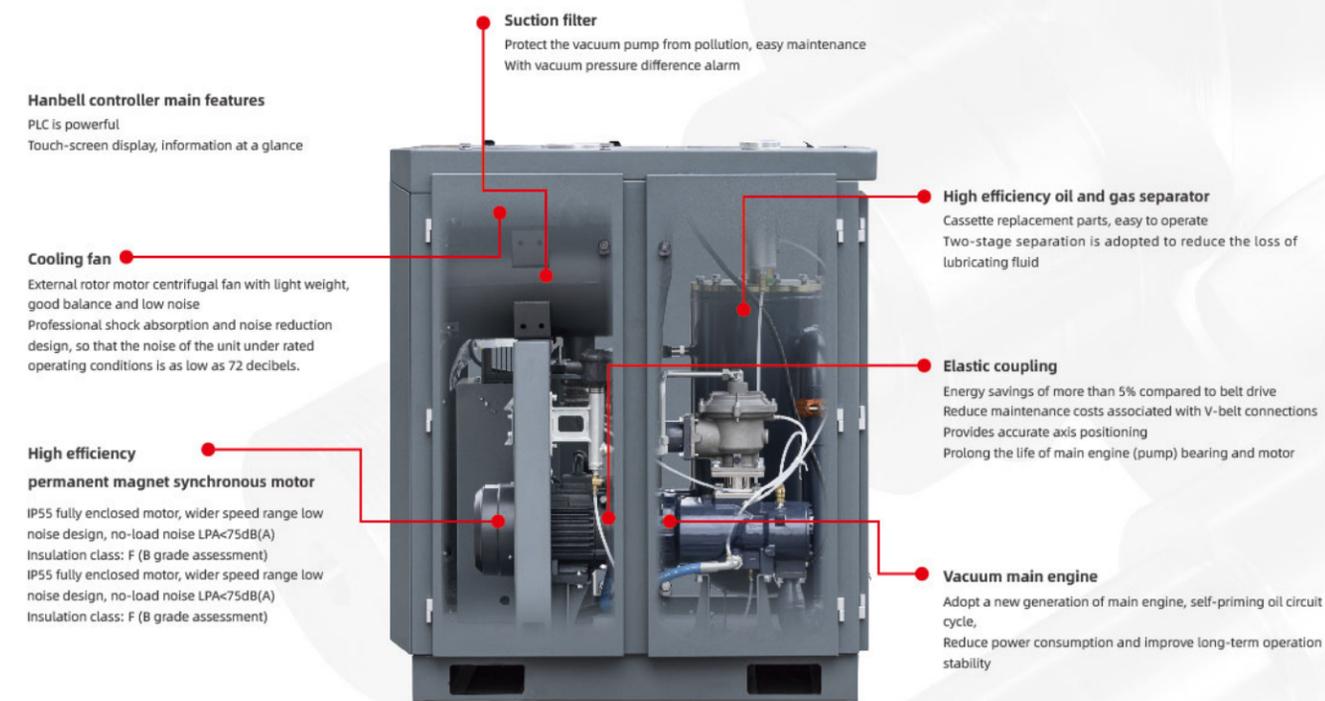
Description of products

PA META series vacuum pump is energy-saving and environmental.

Any central vacuum system engine is a vacuum pump. In order to meet the changing vacuum requirements in the production process, the vacuum pump is frequently started and stopped. This not only increases the probability of failure, but also causes a waste of resources. To solve this problem, Hanbell introduced the permanent magnet variable frequency drive technology. Through the feedback of the inlet pressure sensor, the computer controller carried out parameter analysis on the pressure fluctuation trend and other operating states, gave speed control instructions to the converter, responded quickly, and accurately maintained the inlet vacuum pressure, so that the pumping speed and energy consumption of the vacuum pump were in line with the actual needs of users. PA META series screw vacuum pump only provide what the system needs.

PA META series vacuum pump is especially suitable for plastic, glass, bottling, canning, wood processing, package, printing, paper-making and so on. PA META series vacuum pump has higher moisture resistance and can save 50% energy on average.

Hanbell vacuum system: complete solution



Product feature

High efficiency

Due to the variable frequency drive control, PA META can provide the required flow without excessive, avoiding the waste of energy. New type screw line design improves performance.

IoT system

PA META series vacuum pump has function of remote start and stop, remote monitoring, linkage and so on. With the Internet of Things system, you can clearly control the working state of pump at home.

High reliability

Advanced airflow steering technology ensures ideal cooling and extended service life for electronic components, as well as a more complete exchange of heat and cold. The design of the oil and gas circuit of the inner metal pipe makes the lubrication cooling oil circuit run at a higher speed and take away the heat of the main engine in a more timely manner to ensure that the main engine runs at the optimal temperature. In addition, the service life of the screw rotor is significantly longer than that of the blade, and the maintenance interval is greatly extended

Sustainable productivity

High speed cyclone is adopted for separation with high efficiency and better separation performance. Multi-channel pressure detection, stronger protection function. Automatic water filter can effectively treat the condensate under vacuum condition. In addition, the noise level is reduced by two levels compared with traditional technologies, due to silent components, case and VSD.

Easy and quick installation

PA META series vacuum pump a plug and play vacuum solution, including controller, electrical room, vacuum body and external sheet metal, the overall smooth operation, quiet, energy saving, environmental protection

Technical parameters of PA META series

Model	PA350	PA585	PA730	PA900	PA1300	PA1600	PA1900	PA2500	PA3800	PA4600	PA5400	
Vacuum pump	Pumping speed (m ³ /min)	8	10	12	16	22	26	32	41	64	77	90
	Ultimate pressure (Torr)	0.26Torr/0.35mbar										
	Inlet port	PN10 DN80		PN10DN80		PN10 DN150		PN10DN150		PN10 DN200		
	Outlet port	2 1/2"bsp		PN10DN80		PN10 DN100		PN10DN100		PN10 DN150		
	Driving Method	Direct driving										
	Lubricant capacity(L)	28		45		80		125				
	Exhaust control mode	PID Automatic control										
	Max ambient temperature for operating °C	0-45°C										
Motor	Shaft power(KW)	5.5	7.5	11	15	22	30	37	45	55	75	90
	Voltage(V)/ Frequency(HZ)	220V/380V/50HZ/60HZ										
	Type	Fully enclosed external fan										
	Starting system	Permanent magnet frequency										
Cooler	Type of cooling	Air cooling/Water cooling										
	Fan Motor Power (KW)	0.09		0.43		0.75		1.6		2.2		
	Air flow(m ³ /min)	35		88		100		185		185		
Safety protection device	Under/reverse phase, over current, inlet pressure difference, exhaust temperature protection, exhaust pressure protection											
Maintenance indicator	Air filter, oil filter, fine separator, lubricating oil											
Integrated display and control controller	Digital temperature / pressure display , Full automatic operation / stop control											
	joint control / Internet of Things/ Remote control											