CoreVac
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ERP(AC) Series Roots Vacuum Pump



Introduction:

EVP is committed to the production and sales of different kinds of vacuum pumps, vacuum valves and vacuum fittings, provides first-class vacuum equipment solutions for global customers. The inspiration for the creation of EVP's brand comes from the mission "deliver Eastern Vacuum Products to all over the world", emphasizing the confidence and vitality from the East. The name ERP(AC) comes from EVP Roots vacuum Pump of Air-Cooling. It embodies the wisdom of the East, its design and color matching with oriental aesthetics, which continues to win the reputation of "Created in China". ERP(AC) series roots vacuum pump of air-cooling 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.

Features:

1. Air-cooling, no need cooling water, especially suitable for application not able to provide cooling water.
2. There is no friction between the rotor and the pump cavity, the rotor and the rotor, and no lubricating oil is required, so there is no oil in the pump cavity, which avoids the pollution of the oil to the vacuum system .
3. It is equipped with bypass valve, which can protect the pump from overload.
4. Compact structure and small size, it can be installed horizontally or vertically.
5. Good dynamic balance, stable operation, low vibration and low noise.
6. Quick start, can reach ultimate vacuum in a short period of time.
7. Low power consumption and low maintenance costs.
8. Can be used to

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Main application:

ERP(AC) series roots vacuum pump has widely used in vacuum smelting, vacuum welding, vacuum casting, vacuum coating, vacuum drying, vacuum dynamic experiment and chemical pharmaceutical, electric vacuum device manufacturing industries, etc.

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

Technical data:

Model	ERP (AC)-45	ERP (AC)-70	ERP (AC)-150	ERP (AC)-300	ERP (AC)-600
Flow rate (L/s @ 50Hz)	45	70	150	300	600
Flow rate (L/s @ 60Hz)	54	84	180	360	720
Ultimate vacuum (Pa)	0.05				
Ultimate full vacuum (Pa)	0.5				
Max. allowable diff. pressure (Pa)	8000				5000
Inlet & Outlet DIA (mm)	70	70	70	100	150
Zero flow max. comp. ratio K0. Max	≥35	≥35	≥40	≥40	≥50
Noise dB (A)	63	63	63	68	75
Motor power (kW)	1.1	1.1	2.2	4	7.5
Rotary speed (rpm)	3000				
Cooling method	AIR COOLING				
Weight (kg)	90	100	155	233	465