

## 24 small hours hot wire : 400-110-9566





Shanghai Xinran Compressor Co., Ltd X.E.S.industry (jiangsu)Co., Itd

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# XR 磁悬浮透平真空泵

XR magnetic levitation transparent vacuum pump



◆ 无润滑、免维护,100%无油磁悬浮轴承系统 Lubrication-free, maintenance-free, 100% oil-free magnetic bearing system

磁悬浮真空泵是基于磁悬浮轴承技术、高速永磁电机技术、高频矢量变频技术以及高效流体机 械技术研发的智能透平装备,比传统设备节能30-70%,节水100%,广泛应用于造纸行业真空脱水 工艺节能改造。

Magnetic levitation vacuum pump is an intelligent turbine equipment developed based on magnetic levitationbearing technology, high-speed permanent magnet motor technology, high-frequency vector frequency conversion technology, and highefficiency fluid machinery technology. t saves 30-70% energy and 100% water comoared to traditional euipment, and is widely used in energy-saving renovation of vacuum dehydration processes in the paper industry.

# 磁悬浮透平真容录口作原理

magneticlevitation transparent vacuum pump operating principle

从真空抽吸点处来的气体在真空泵中经过高速旋转叶轮作用,将动能转换成气体压力势能,形 成负压真空,经过蜗壳后转换成高温气体排出。

The gas from the vacuum suction point passes through the high-speed rotating impeller in the vacuum pump.converting kinetic energy into gas pressure potentia energy, forming a negative pressure vacuum. After passingthrough the volute, it is converted into hightemperature gas and discharged.

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<> 磁悬浮透平真空泵性能优势 Performance advantages of magnetic levitation turbine vacuum pump



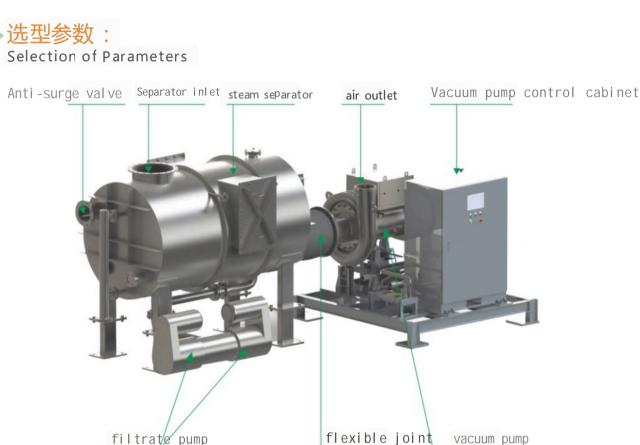
### 性能对比/PERFORMANCE COMPARISON

perfo	ormance comparison	water ring vacuum PumP		Imported mainstream turbine vacuum pump	magneticlevitation transparent
be ari ng im pel ler speed electri c machi ne	bearing	ball bearing	tilting-pad bearing	ceramic bearing	Magnetic bearing, the earliest successful research in China, mature technology, high stability
	technical background	domesti	Import/domestic	import	independent research and development
	mechanical loss form	large Welded impeller	large Open/closed impelle	middle er shrouded impeller	Without Aluminum alloy ternary flow impeller
	Aerodynamic efficiency	Iow	high	high	high
	maintain	compl ex	complex	complex	simple and convenient
	Motor type	Low speed induction moto		tor High speed induction mot	synchronous motor
	drive type	Belt or coupling	Coupling and gear	direct connect	tion direct connection
	Control speed	unable	able	able	Precise speed regulation
	type	Variable speed control system	variable frequency regulation	variable frequency regulation	The intelligent DC speed control system changes the speed of the shaft to change the air volume
	working range	very small	The flow and pressure adjustment range is small	The flow and pressure adjustment range is small	The flow and pressure adjustment range is large
co nt ro I sy st em	control system	No control and protection system	There are control and protection systems	There is control and protection logic, but it needs to be programmed by th customer	Intelligent control and protection system for vacuum pump operation for comprehensive monitoring and protection
	Remote network monitoring	wi thout	wi thout	wi thout	24-hour remote network monitoring of the whole process of operation status can better solve and prevent on-site emergencies for customers
main tain	lubricating oil	Check each shift, add regularly, the cost is higher	Check each shift, add regularly, the cost is highe	Every shift inspection, three months all replacement, the cost is higher	Lube free
	auick woor port	Bearing, sealing,	Bearing, sealing, lubricatin		g without
	cost	I OW	hi gh	cooling fan high	low
operat	tion operating cost	the highes	high	middle	lowest
After	-sales maintenance	Short cycle, low cost, High failure rate	The cycle is longer, the cost is higher, and the frequency is higher	The import maintenance period is long, the cost is high an the frequency is high	





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型 号 真空度 气量范围 功率 MODEL -kpa m<sup>3</sup>/min kw XRC11 14 11 XRC15 15 20 XRC18.5 18.5 24 XRC45 45 45 10~70 XRC55 60 60 XRC75 92 92 XRC90 126 126 XRC110 150 150 XRC150 184 184

上表中数据为产品标况参数及主要工作范围,具体选型请咨询专业人员

The data in the above table are the product standard parameters and main scope of work Please consult professional personnelfor specific selection

磁悬浮真空泵是基于磁悬浮轴承技术、高速永磁电机技术、高频矢量变频技术以及高效流体机械技术研发的智能透 平装备,比传统设备节能 30-70%,节水100%,广泛应用于造纸行业真空脱水工艺节能改造。

The magnetic levitation vacuum pump is an intelligent turbine equipment developed based on magnetic levitation bearing technology, high-speed permanent magnet motor technology, high-frequency vector frequency conversion technology and efficient fluid machinery technology. It saves 30-70% energy and 100% water than traditional equipment. It's widely used in the papermaking industry, Energy-saving transformation of vacuum dehydration process.

## The energy saving rate of the renovation case is about 69.4%

Baoding De \* Paper is a large-scale pulp and paper enterprise, its pulp production line is one of the largest and most technologically advanced single pulp production lines in China. The company has an annual output of 600,000 tons of chemical bleached kraft pulp and 500,000 tons of paper making.



After careful site investigation and technical discussion, Xinran staff selected two XRC110 magnetic suspension turbine vacuum pumps and upgraded the original equipment. After the equipment is powered on, the magnetic suspension bearing system makes the motor rotor stably suspended, driven by the high-speed frequency converter, the impeller continues to do work on the gas, forming a stable vacuum in the inlet pipe of the impeller, compared with the water ring vacuum pump, eliminating the friction loss in the bearing rotation process, and 100% water-free, oil-free, low noise, low vibration, greatly reducing the energy consumption of tons of paper.



After upgrading the vacuum pump of this project, the comprehensive power saving rate is about 69.4%.





The original vacuum system of this company runs 5 Roots vacuum PumPs, supporting the motor Power of 560kW the actual operating Power of 430.53kW, the original equipment due to long running time. old equipment. resulting in high energy consumption a large waste of lectricity resources. In order to further improve the operating efficiency of the company, the company upgraded the five Roots vacuum pumps.