



Advanced Roots Vacuum Pumps for High Vacuum Extraction in Industrial Settings

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Export Standard Packaging
- Payment Terms: T/T, L/C



Product Specification

- Flow Range: 0.45-452.4m³/min
- Material: HT250
- Models: RR
- Pressure: 9.8kPa-58.8kPa
- Highlight: industrial roots vacuum pumps,
industrial roots type vacuum pump,
industrial settings roots vacuum pumps



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Advanced Roots Vacuum Pump for High Vacuum Extraction in Industrial Settings

Product Features

Product Overview

The core features of the Aipu RR Roots vacuum pump include high vacuum degree, oil-free operation, compact structure, fast start-up, wide pressure range, and good dynamic balance performance. These characteristics make Roots vacuum pumps widely used in many fields.

Key Technical Features

High vacuum degree: Roots vacuum pump can quickly extract gas and generate large airflow, with a maximum vacuum degree of up to a high level, suitable for applications that require high vacuum degree.

Oil free operation: Roots vacuum pumps do not require lubricants to come into contact with the working gas, making them suitable for applications that require high gas purity, such as the food and pharmaceutical industries.

Compact structure: The Roots vacuum pump has a relatively compact structure, occupies a small area, and is suitable for situations with limited space.

Fast start-up: Roots vacuum pumps have the characteristics of low noise and small vibration, fast start-up, and low operation and maintenance costs.

Wide pressure range: Roots vacuum pumps have a high pumping speed over a wide pressure range, making them suitable for situations that require rapid pumping.

Good dynamic balancing performance: The rotor of the Roots vacuum pump has a symmetrical shape, good dynamic balancing performance, stable operation, and is suitable for continuous production lines.

Key Advantages

Extremely quiet operation supports use in noise sensitive industrial environments

Compact and space saving design simplifies installation in small equipment spaces

Efficient performance maximizes energy savings and reduces operating costs

Roots vacuum pump does not use any lubricating oil during operation, avoiding oil pollution problems. Its structural design ensures smooth operation and low maintenance costs, making it suitable for applications that require high gas purity

Scope of application

It is suitable for sewage treatment industry, petrochemical industry, food and drug industry, textile industry, metallurgy industry, cement and construction materials industry, printing and dyeing industry and other industries.

Market Distribution

We have 42 offices throughout the country, in addition to Taiwan Province, 33 provinces in the country's administrative regions have a sound sales and service network. We can provide you with pre-sale, in-sale and after-sales service in a timely and convenient manner, understand your needs, and constantly improve the service and quality system while meeting the customized needs of customers.

High Performance Aerodynamic Design Methodology for Wide Service Conditions

By studying the influence of impeller and volute flow on efficiency and working stability, the R&D team proposed a flow control method and a pneumatic optimization design method to improve the performance of the main engine, which greatly improved the efficiency of the main engine.

Manufacturing & Equipment Base

has built laboratories, R& D buildings, processing workshops, etc., with internationally advanced and China leading high-precision processing equipment.



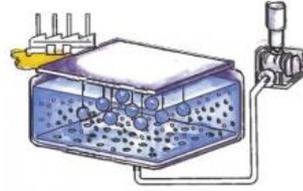
Examples of uses



■水泡浴 Foaming in Bath



■燃烧炉 Combustion a Fireplace



■电镀槽搅拌 Stirring in Plated Vessel



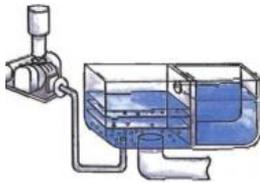
■公寓大楼的污水处理（曝气）
Waste water Aeration in Condominiums



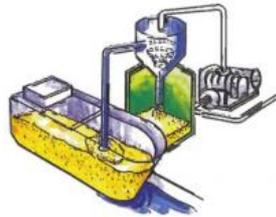
■工厂废水和畜产废水处理（曝气）
Waste Water Aeration for Shop and Livestock Industries



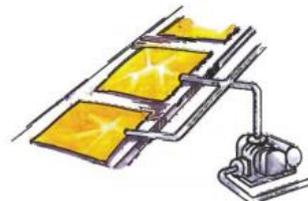
■养鱼用 Fish Care



■冲洗 Back Washing



■粉体输送（水泥、饲料、小片状）
Transport of Particles



■食品真空包装
Vacuum Pack for Foods

RR-V系列罗茨真空泵性能表 Performance Data of Series RR-V Rotary Vacuum Pump

各真空度下的吸入风量 Q_v (m³/min) 和所需的轴功率 La (kW) 及配用电动机功率 P_e (kW)
Inlet Flow Q_v (m³/min), Shaft Power La (kW) And Motor Power P_e (kW)

型号 Type	口径 Inlet Size	理论流量 Theoretical Capacity m ³ /min	-0.02Pa		-0.2Pa		-0.5Pa		-1Pa		-2Pa		-5Pa		-10Pa		-100Pa		电机 功率 Power			
			Q _v		Q _v		Q _v		Q _v		Q _v		Q _v		Q _v		Q _v					
			La	P _e																		
RRV-50V	50A	1150	1.07	1	0.6	1.1	0.82	0.7	1.1	0.78	0.8	1.1	0.63	0.95	1.1	0.51	1.1	1.5	4			
		1450	1.98	1.91	0.7	1.1	1.23	0.83	1.1	1.17	1	1.3	1.04	1.2	1.15	0.90	1.4	2.0	8			
		1750	2.4	2.03	0.8	1.1	1.62	1	1.25	1.28	1.2	1.45	1.45	1.4	1.2	1.25	1.4	2.2	1.14	2	8	
		2050	2.74	2.17	0.9	1.2	1.94	1.15	1.3	1.30	1.4	1.5	1.6	1.5	1.66	1.6	1.7	1.65	1.8	2.3	3	10
		2350	3.02	2.66	1.1	1.5	2.47	1.4	1.5	1.61	1.7	1.7	1.86	1.7	1.9	1.9	2.0	2.0	2.1	2.1	2.1	10
RRV-60V	60A	1150	1.07	1.07	1.1	0.82	0.7	1.1	0.78	0.8	1.1	0.63	0.95	1.1	0.51	1.1	1.5	4	4			
		1450	1.98	1.91	0.7	1.1	1.23	0.83	1.1	1.17	1	1.3	1.04	1.2	1.15	0.90	1.4	2.0	8			
		1750	2.4	2.03	0.8	1.1	1.62	1	1.25	1.28	1.2	1.45	1.45	1.4	1.2	1.25	1.4	2.2	1.14	2	8	
		2050	2.74	2.17	0.9	1.2	1.94	1.15	1.3	1.30	1.4	1.5	1.6	1.5	1.66	1.6	1.7	1.65	1.8	2.3	10	
		2350	3.02	2.66	1.1	1.5	2.47	1.4	1.5	1.61	1.7	1.7	1.86	1.7	1.9	1.9	2.0	2.0	2.1	2.1	10	
RRV-80V	80A	1150	1.07	1.07	1.1	0.82	0.7	1.1	0.78	0.8	1.1	0.63	0.95	1.1	0.51	1.1	1.5	4	4			
		1450	1.98	1.91	0.7	1.1	1.23	0.83	1.1	1.17	1	1.3	1.04	1.2	1.15	0.90	1.4	2.0	8			
		1750	2.4	2.03	0.8	1.1	1.62	1	1.25	1.28	1.2	1.45	1.45	1.4	1.2	1.25	1.4	2.2	1.14	2	8	
		2050	2.74	2.17	0.9	1.2	1.94	1.15	1.3	1.30	1.4	1.5	1.6	1.5	1.66	1.6	1.7	1.65	1.8	2.3	10	
		2350	3.02	2.66	1.1	1.5	2.47	1.4	1.5	1.61	1.7	1.7	1.86	1.7	1.9	1.9	2.0	2.0	2.1	2.1	10	
RRV-100V	100A	1150	1.07	1.07	1.1	0.82	0.7	1.1	0.78	0.8	1.1	0.63	0.95	1.1	0.51	1.1	1.5	4	4			
		1450	1.98	1.91	0.7	1.1	1.23	0.83	1.1	1.17	1	1.3	1.04	1.2	1.15	0.90	1.4	2.0	8			
		1750	2.4	2.03	0.8	1.1	1.62	1	1.25	1.28	1.2	1.45	1.45	1.4	1.2	1.25	1.4	2.2	1.14	2	8	
		2050	2.74	2.17	0.9	1.2	1.94	1.15	1.3	1.30	1.4	1.5	1.6	1.5	1.66	1.6	1.7	1.65	1.8	2.3	10	
		2350	3.02	2.66	1.1	1.5	2.47	1.4	1.5	1.61	1.7	1.7	1.86	1.7	1.9	1.9	2.0	2.0	2.1	2.1	10	
RRV-150V	150A	1150	1.07	1.07	1.1	0.82	0.7	1.1	0.78	0.8	1.1	0.63	0.95	1.1	0.51	1.1	1.5	4	4			
		1450	1.98	1.91	0.7	1.1	1.23	0.83	1.1	1.17	1	1.3	1.04	1.2	1.15	0.90	1.4	2.0	8			
		1750	2.4	2.03	0.8	1.1	1.62	1	1.25	1.28	1.2	1.45	1.45	1.4	1.2	1.25	1.4	2.2	1.14	2	8	
		2050	2.74	2.17	0.9	1.2	1.94	1.15	1.3	1.30	1.4	1.5	1.6	1.5	1.66	1.6	1.7	1.65	1.8	2.3	10	
		2350	3.02	2.66	1.1	1.5	2.47	1.4	1.5	1.61	1.7	1.7	1.86	1.7	1.9	1.9	2.0	2.0	2.1	2.1	10	
RRV-200V	200A	1150	1.07	1.07	1.1	0.82	0.7	1.1	0.78	0.8	1.1	0.63	0.95	1.1	0.51	1.1	1.5	4	4			
		1450	1.98	1.91	0.7	1.1	1.23	0.83	1.1	1.17	1	1.3	1.04	1.2	1.15	0.90	1.4	2.0	8			
		1750	2.4	2.03	0.8	1.1	1.62	1	1.25	1.28	1.2	1.45	1.45	1.4	1.2	1.25	1.4	2.2	1.14	2	8	
		2050	2.74	2.17	0.9	1.2	1.94	1.15	1.3	1.30	1.4	1.5	1.6	1.5	1.66	1.6	1.7	1.65	1.8	2.3	10	
		2350	3.02	2.66	1.1	1.5	2.47	1.4	1.5	1.61	1.7	1.7	1.86	1.7	1.9	1.9	2.0	2.0	2.1	2.1	10	

注：1. 带星号转速采用联轴器驱动，其余转速采用皮带传动

Notes: 1. Direct drive is adopted for model marked with "*", Belt drive is adopted for others.

RR-W系列罗茨真空泵性能表 Performance Data of Series RR-W Rotary Vacuum Pump

型号 (Size)	口径 (DN)	转速 (rpm)	额定流量 (m³/min)	各真空度下的吸入流量Q _s (m³/min) 和所需的轴功率L _s (kW) 及配套电机功率 (kW)																								吸入水流量 (m³/min)	电机功率 (kW)
				<-1.0kPa						<-0.9kPa						<-0.8kPa						<-0.7kPa							
				Q _s	L _s	P ₀	Q _s	L _s	P ₀	Q _s	L _s	P ₀	Q _s	L _s	P ₀	Q _s	L _s	P ₀	Q _s	L _s	P ₀	Q _s	L _s	P ₀	Q _s	L _s	P ₀		
RR-200A	300	800	147.40	141	41	45	149	40	75	138	37	30	137	33	110	134	109	132	131	128	160	123	142	160	46	6			

注: 1. 罗茨真空泵不宜输送腐蚀性、磨蚀性的气体。 Notes: 1. Water dissoluble or corrosive gas should not be transferred by wet rotary vacuum pump.
 2. 带罩的转速取联轴器传动, 其余转速采用皮带传动。 2. Direct drive is adopted for model marked with "W", belt drive is for others.

RR-W系列罗茨真空泵性能参数表 Performance Data of Series RR-W Rotary Vacuum Pump

型号 (Size)	口径 (DN)	转速 (rpm)	额定流量 (m³/min)	各真空度下的吸入流量Q _s (m³/min) 和所需的轴功率L _s (kW) 及配套电机功率 (kW)																								吸入水流量 (m³/min)	电机功率 (kW)
				<-1.0kPa						<-0.9kPa						<-0.8kPa						<-0.7kPa							
				Q _s	L _s	P ₀	Q _s	L _s	P ₀	Q _s	L _s	P ₀	Q _s	L _s	P ₀	Q _s	L _s	P ₀	Q _s	L _s	P ₀	Q _s	L _s	P ₀	Q _s	L _s	P ₀		
RR-300A	300	470	186.80	180	59	75	177	60	90	173	101	132	173	122	160	170	142	160	167	163	185	164	185	220	48	8			

注: 1. 罗茨真空泵不宜输送腐蚀性、磨蚀性的气体。 Notes: 1. Water dissoluble or corrosive gas should not be transferred by wet rotary vacuum pump.
 2. 带罩的转速取联轴器传动, 其余转速采用皮带传动。 2. Direct drive is adopted for model marked with "W", belt drive is for others.
 3. 内性能点真空泵中间轴皮带传动。 3. Belt drive with counter shaft should be adopted for pump whose performance points are enclosed by the " ".

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