



## Powerful Steam Compressors: Key Equipment for Increased Productivity

Our Product Introduction

### Basic Information

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



### Product Specification

- Material: Stainless Steel
- Models: Vapour Compressor
- Brand Name: Aipu

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Product Description

Powerful Steam Compressors: Key Equipment for Increased Productivity

Product Description

Product Features

High Performance: Designed to deliver robust performance, with a flow rate of up to 800 kg/h, enhancing overall production efficiency.

Durable Construction: Built from carbon steel and stainless steel, ensuring longevity and resistance to wear in demanding environments.

Variable Pressure Handling: Capable of operating at wide pressure ranges, from 1.5 bar to 8.0 bar, making it versatile for different applications.

Energy Efficient: Achieves efficiency levels of 80% or more, helping to reduce operational costs and energy consumption.

Noise Reduction Technology: Engineered to operate quietly, achieving noise levels below 75 dB(A), suitable for sensitive work environments.

User-Friendly Design: Features intuitive controls and streamlined access for maintenance, ensuring ease of operation and servicing.

Safety Features: Equipped with safety systems to monitor pressure and temperature, ensuring reliable operation.

Versatile Applications: Adaptable for various industries, including manufacturing, food processing, and pharmaceuticals.

Applications

Manufacturing: Ideal for steam-driven processes, enhancing machinery efficiency and productivity.

Food Processing: Suitable for cooking, sterilization, and pasteurization applications, ensuring food safety and quality.

Chemical Industry: Used in various chemical processes that require precise steam management and pressure control.

Pharmaceuticals: Essential for processes that demand high standards of hygiene and efficiency.

Textile Industry: Employed in dyeing and finishing processes, effectively utilizing steam for better results.

Product Sizing Data Table

单级压缩机Single Stage Compressor							
型号	进口压力 MPaA	进口温度℃	流量 t/h	出口压力 MPaA	总压比	轴功率 kW	电机功率 kW
CCV5-0.6/0.8	0.6	158.9	5	0.8	1.33	118	132
CCV5-0.6/0.9	0.6	158.9	5	0.9	1.50	168	200
CCV5-0.6/1.0	0.6	158.9	5	1.0	1.67	218	250
CCV10-0.6/0.8	0.6	158.9	10	0.8	1.33	216	250
CCV10-0.6/0.9	0.6	158.9	10	0.9	1.50	310	355
CCV10-0.6/1.0	0.6	158.9	10	1.0	1.67	398	450
CCV10-0.6/1.1	0.6	158.9	10	1.1	1.83	484	560
CCV20-0.6/0.8	0.6	158.9	20	0.8	1.33	398	450
CCV20-0.6/0.9	0.6	158.9	20	0.9	1.50	572	630
CCV20-0.6/1.0	0.6	158.9	20	1.0	1.67	737	800
CCV20-0.6/1.1	0.6	158.9	20	1.1	1.83	893	1000
CCV20-0.6/1.2	0.6	158.9	20	1.2	2.00	1044	1250
CCV50-0.6/0.8	0.6	158.9	50	0.8	1.33	929	1000
CCV50-0.6/0.9	0.6	158.9	50	0.9	1.50	1333	1600
CCV50-0.6/1.0	0.6	158.9	50	1.0	1.67	1712	2000
CCV50-0.6/1.1	0.6	158.9	50	1.1	1.83	2077	2250
CCV50-0.6/1.2	0.6	158.9	50	1.2	2.00	2427	2800
CCV100-0.6/0.8	0.6	158.9	100	0.8	1.33	1812	2000
CCV100-0.6/0.9	0.6	158.9	100	0.9	1.50	2606	2800
CCV100-0.6/1.0	0.6	158.9	100	1.0	1.67	3347	3550
CCV100-0.6/1.1	0.6	158.9	100	1.1	1.83	4054	4500
CCV100-0.6/1.2	0.6	158.9	100	1.2	2.00	4725	5000

双级压缩机 Double Stage Compressor								
型号	进口压力 MPaA	进口温度℃	进口流量 t/h	出口流量 t/h	出口压力 MPaA	总压比	轴功率	电机功率
CCV5-0.3/0.6-2	0.3	133.6	5	5.2	0.6	2.00	260	315
CCV5-0.3/0.8-2	0.3	133.6	5	5.2	0.8	2.67	384	450
CCV5-0.3/0.9-2	0.3	133.6	5	5.3	0.9	3.00	442	500
CCV10-0.3/0.7-2	0.3	133.6	10	10.4	0.7	2.33	604	710
CCV10-0.3/0.9-2	0.3	133.6	10	10.5	0.9	3.00	814	900
CCV10-0.3/1.1-2	0.3	133.6	10	10.5	1.1	3.67	991	1120
CCV20-0.3/0.7-2	0.3	133.6	20	20.9	0.7	2.33	1137	1250
CCV20-0.3/0.9-2	0.3	133.6	20	21.0	0.9	3.00	1527	1800
CCV20-0.3/1.1-2	0.3	133.6	20	21.1	1.1	3.67	1856	2000
CCV20-0.3/1.2-2	0.3	133.6	20	21.1	1.2	4.00	2009	2250
CCV50-0.3/0.7-2	0.3	133.6	50	52.2	0.7	2.33	2767	3150
CCV50-0.3/0.9-2	0.3	133.6	50	52.6	0.9	3.00	3701	4000
CCV50-0.3/1.1-2	0.3	133.6	50	52.7	1.1	3.67	4483	5000
CCV50-0.3/1.2-2	0.3	133.6	50	52.8	1.2	4.00	4857	5600

三级压缩机 Three Stage Compressor								
型号	进口压力 MPaA	进口温度℃	进口流量 t/h	出口流量 t/h	出口压力 MPaA	总压比	轴功率	电机功率
CCV10-0.3/1.2-3	0.3	133.6	10	11.0	1.20	4.00	1035	1250
CCV10-0.3/1.5-3	0.3	133.6	10	11.1	1.50	5.00	1238	1400
CCV10-0.3/1.8-3	0.3	133.6	10	11.1	1.80	6.00	1412	1600
CCV20-0.3/1.4-3	0.3	133.6	20	22.1	1.40	4.67	2224	2500
CCV20-0.3/1.7-3	0.3	133.6	20	22.2	1.70	5.67	2571	2800
CCV20-0.3/2.0-3	0.3	133.6	20	22.3	2.00	6.67	2878	3150
CCV30-0.3/1.4-3	0.3	133.6	30	33.1	1.40	4.67	3262	3550
CCV30-0.3/1.7-3	0.3	133.6	30	33.3	1.70	5.67	3771	4000
CCV30-0.3/2.0-3	0.3	133.6	30	33.4	2.00	6.67	4221	4500

Note: 1,For flow rates above 50t/h, if three-stage compression is required, a combination of single-stage and two-stage compressors in series can be considered.  
2,The above design parameter range is for reference only. For details outside of this range, please consult Yixing Aipu.

## Performance Features

**High Temperature Adaptability:** Capable of handling high temperature vapours for industrial applications requiring high temperature compression.

Centrifugal Compressor Design: Centrifugal design for high efficiency and compression capacity.

**Stable operation:** Designed to ensure stable performance and high efficiency over long periods of operation.

**Abrasion and corrosion resistant:** Manufactured with high temperature and corrosion resistant materials to withstand harsh operating environments.

Energy saving and environmental protection: Adopting advanced energy-saving technology to comply with environmental standards and reduce energy consumption.

**Reliability:** Designed with long-term reliability and safety in mind, reducing the need for maintenance.

**Intelligent control:** Equipped with advanced intelligent control system to monitor and regulate the compressor's operating status and improve operating efficiency.

### Energy saving and High efficiency

**Ternary flow Impeller is directly coupled with high-speed PMSM;**  
**Save more than 30% energy than Water Ring Vacuum Pump,no not need circulating water,**  
**Save more than 20% energy than Multi-stage Centrifugal Vacuum Pump;**  
**Save more than 10% energy than Single Stage High Speed Centrifugal Vacuum Pump;**

### Low Noise

**With the self-balancing technology, the vibration level of Magnetic bearing is lower than traditionabearings, and there is no friction, Adopting the active vibration damping design, the blower can operate smoothly of less vibration.**

### Maintenance Free

**Integrated design, skid mounted structure, convenient installation, one key to start and stop theblower, No need for mechanical maintenance during daily operation, only to replace the filter.**

## Bearing technology

Active Magnetic Bearing Technology is converted from the magnetic Suspension flywheel technology in the field of space satellite. The high performance attitude control and high efficiency energy conversion of the satellite are realized from magnetic Suspension flywheel technology, which greatly improves the attitude control and operation level of the satellite and effectively solves the problems of low efficiency, short service life, routine maintenance requirement and lubrication issues on mechanical support transmission system.

## First-class lean manufacturing and testing base

We have built laboratories, R & D buildings, processing work-shops, etc., with internationally advanced and China leading high-precision processing equipment.



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