



Aipu Reliable Steam Compressors Low Noise Safety Durable For Extreme Conditions

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Model Number: CBV Series
- 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
- Highlight: **steam compressors low noise, safety steam compressor, safety steam compressors**

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Reliable Steam Compressors: Perfect for Extreme Conditions

Product Description

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Reliable steam compressors are engineered to excel in extreme operating conditions, ensuring consistent performance even in the most demanding environments. Built with heavy-duty materials, these compressors provide durability and stability, making them ideal for various industrial applications such as energy production, manufacturing, and chemical processing. With the capability to handle high temperatures and pressures, they are the perfect solution for facilities requiring robust steam management.

Designed for efficiency, these compressors reduce energy consumption while maintaining high operational efficacy. Their advanced technology and user-friendly controls ensure seamless operation, making them a valuable addition to any industrial setup.

Product Features

Extreme Condition Capability: Operates effectively under high pressures (up to 9.0 bar) and temperatures (up to 180°C).

Durable Construction: Heavy-duty steel construction for enhanced resilience in challenging environments.

Energy Efficient: Achieves efficiency ratings of 80% or higher, contributing to lower operational costs.

User-Friendly Interface: Intuitive controls allow for easy monitoring and operation.

Low Noise Operation: Maintains noise levels below 70 dB(A), suitable for various work environments.

Safety Enhancements: Equipped with monitoring systems for pressure relief and temperature control to ensure safe operation.

Versatile Applications: Suitable for power plants, chemical processing, and manufacturing industries requiring reliable steam solutions.

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 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;

Advanced impeller profile curve and high efficiency

The ternary flow theory design of the impeller and the application of flow analysis technology forecasting performance of blower make the Adiabatic efficiency to reach up 82%.

The flow capacity can be controlled in the wide range, and the blower can be applied to variety of working conditions.

3 Options on blower flow capacity adjustment: VFD, IGV (Inlet Guide Vane), OGV (Outlet Guide Vane), wide adjusting range and keep high efficiency under non-rated working condition. The provided anti-surge device can prevent the surge problem effectively.

The compact blower structure and small size.

The blowers are adopted integrated structure of assembly-type, in details, the blower body is assembled on the casing of gear accelerating box, the lubricating oil system distributed, the motor and gear accelerating box are installed on the common pedestal compactly; the pedestal doubles as a oil tank.

After strict dynamic balance, the rotor has low vibration, high reliability and low overall noise.

The Moment of inertia of rotor is small, the startup and stop time has been decreased and the oil box with high oil level and accumulator has been abrogated. Compare to other style blowers with same flow capacity and pressure rise, this product enjoys low energy consumption, light weight and small size.

The structure of blower is advanced and reasonable. Easy-worn parts are few. Installation, operation and maintenance are convenient.

The parameters (such as bearing vibration of whole machine, temperature rise; inlet and outlet pressure and temperature; anti-

surge control; start of the interlock protection; failure alarm; oil pressure of lubricating system, oil temperature control and so on) are controlled by programmable logic controller that can be get real-time control. Less wearing parts and the daily maintenance is convenient.

High degree of intelligence

The bearing's vibration, temperature, the inlet and outlet pressure, temperature, anti-surge control, start-stop interlock protection, fault alarm, lubricating oil pressure, oil temperature and a series of monitoring and control system are controlled by PLC, and real-time transmission to the "Zhanggu Cloud" intelligent cloud platform, users can real-time monitoring equipment running status with project engineer.

First-class lean manufacturing and testing base

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



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