



Versatile Steam Compressors Wide Range Of Industrial Needs Mechanical Steam Compression

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: Versatile Steam Compressors, Industrial Mechanical Steam Compression, Industrial Steam Compressors



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Versatile Steam Compressors: Adapting to a Wide Range of Industrial Needs

Product Description

Wide Pressure Range: Capable of handling inlet pressures from 1.0 bar to 9.0 bar, making it versatile for various applications.
 High Flow Rate: Provides up to 500 kg/h of steam flow, ensuring sufficient output for demanding industrial processes.
 Durable Construction: Made from carbon steel, designed to withstand harsh operating conditions and enhance longevity.
 Energy Efficient: Achieves efficiency ratings of 82% or more, contributing to lower operational costs.
 Compact Design: Space-efficient dimensions facilitate easy installation in limited spaces.
 Noise Reduction: Operates at noise levels below 72 dB(A), suitable for noise-sensitive environments.
 User-Friendly Controls: Features intuitive controls for effortless monitoring and adjustment of settings.
 Safety Features: Equipped with pressure and temperature monitoring systems for enhanced safety during operation.

Applications

Manufacturing: Ideal for powering steam-driven machinery and processes in various manufacturing setups.
 Food Processing: Used in cooking, sterilizing, and pasteurizing applications, ensuring food safety and quality.
 Chemical Industry: Supports diverse chemical processes that require controlled steam environments.
 Pharmaceuticals: Essential for applications requiring high standards of cleanliness and efficiency.
 Textile Production: Employed in dyeing and finishing processes, utilizing steam effectively for better outcomes.

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;

High Efficiency Advanced Impeller Profile Customized Design, Excellent Power-saving Performance

The impeller is designed by three dimensional flow theory, and the full three dimensional flow simulation. The performance of the steam compressor is predicted by flow analysis technology, and the adiabatic efficiency of the steam compressor can reach about 85%. The impeller is customized design according to the working parameters of the user to ensure that the working parameters required by the user are in the impeller efficient area, which is more energy saving.

Wide adjust range, stable vacuum degree

Evaporate capacity is wide and can be adjusted by two modes: VFD, Evaporate Temperature; Anti-surge device is provided to avoid surge problem effectively.

Compact Design, Less Footprint

The overall skid-mounted structure is adopted. Centrifugal steam compressor body is directly connected with gear box casing. The lubricating oil system and the motor are arranged on the common base which serves as the oil tank. Less weight and less footprint.

Low noise level

Through the advanced design technology of spiral case and impeller, the discrete noise and wide-band noise are suppressed, and the active control of aerodynamic noise is realized. More easily decayed.

Less wearing parts, convenient installation and maintenance

Less wearing parts, less site maintenance, easy & fast installation

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



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