

KEYAYEYA ACP-400FS250

KEYAYEYA ACP-400FS250 Coolant Pump Instruction Manual

Model: ACP-400FS250

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your KEYAYEYA ACP-400FS250 Coolant Pump. Please read this manual thoroughly before operating the pump and retain it for future reference. Proper understanding and adherence to these instructions will ensure optimal performance and longevity of your equipment.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in personal injury, equipment damage, or property damage.

- Always disconnect power before performing any installation, maintenance, or troubleshooting.
- Ensure the pump is installed by qualified personnel in accordance with local electrical and safety codes.
- Do not operate the pump with damaged cords or if the pump itself is visibly damaged.
- Wear appropriate personal protective equipment (PPE) such as safety glasses and gloves when handling coolants or working near the pump.
- Ensure proper ventilation in the operating area.
- Do not immerse the motor in liquid unless specifically designed for submersible operation.
- Verify that the voltage and frequency of the power supply match the pump's specifications.

3. PRODUCT OVERVIEW

The KEYAYEYA ACP-400FS250 is a robust coolant pump designed for industrial applications, specifically compatible with A-RYUNG MACHINERY IND.CO.,LTD systems. It is engineered to circulate coolant efficiently, ensuring optimal performance and temperature regulation for machinery.



Figure 3.1: General view of the KEYAYEYA ACP-400FS250 Coolant Pump. This image illustrates the overall design and primary components of the pump, including the motor housing and pump body.

Key Features:

- Durable construction for industrial environments.
- Efficient coolant circulation.
- Designed for compatibility with specific A-RYUNG MACHINEY systems.

4. SETUP AND INSTALLATION

Proper installation is crucial for the pump's performance and safety. Refer to the following steps for general guidance. Consult a qualified technician for complex installations.

1. **Unpacking:** Carefully remove the pump from its packaging. Inspect for any shipping damage.
2. **Mounting:** Securely mount the pump in a stable location, ensuring it is level and has adequate clearance for ventilation and maintenance.
3. **Piping Connections:** Connect the inlet and outlet pipes to the pump. Ensure all connections are tight and leak-free. Use appropriate thread sealant if necessary.
4. **Electrical Connection:** Connect the pump to a suitable power supply. Ensure the power supply matches the pump's voltage and frequency requirements. A qualified electrician should perform this step.

5. **Priming (if applicable):** If the pump is not self-priming, ensure the pump casing and suction line are filled with coolant before initial startup to prevent dry running.
6. **Initial Check:** Before starting, double-check all connections, mounting, and electrical wiring.

5. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your ACP-400FS250 coolant pump.

1. **Pre-Operation Check:** Verify that the coolant reservoir has sufficient fluid level and that all valves in the system are correctly positioned.
2. **Starting the Pump:** Turn on the power supply to the pump. The pump should start circulating coolant immediately.
3. **Monitoring:** Observe the pump during operation for any unusual noises, vibrations, or leaks. Monitor coolant flow and pressure if gauges are installed.
4. **Stopping the Pump:** To stop the pump, turn off the power supply.
5. **Extended Shutdown:** For extended periods of non-use, it is recommended to drain the pump and system to prevent corrosion or freezing, depending on the coolant type and environment.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your coolant pump. Always disconnect power before performing any maintenance.

- **Daily/Weekly:**
 - Check coolant levels and replenish as needed.
 - Inspect for any visible leaks around connections and the pump body.
 - Listen for unusual noises or vibrations.
- **Monthly/Quarterly:**
 - Clean any debris from the pump's intake screen or filter to ensure unrestricted flow.
 - Inspect electrical connections for tightness and signs of corrosion.
 - Check mounting bolts for tightness.
- **Annually:**
 - Perform a thorough inspection of the pump and motor.
 - Consider replacing worn seals or bearings if signs of wear are present.
 - Flush the coolant system and replace coolant according to manufacturer recommendations.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Pump does not start	No power supply Motor overload Damaged wiring	Check power connection and circuit breaker Reset overload protector Inspect and repair wiring (qualified electrician)

Problem	Possible Cause	Solution
Low or no coolant flow	Low coolant level Clogged intake/filter Air in system (cavitation) Damaged impeller	Replenish coolant Clean intake screen/filter Bleed air from system, ensure proper priming Inspect and replace impeller
Excessive noise or vibration	Loose mounting Bearing wear Debris in pump Cavitation	Tighten mounting bolts Replace bearings Clean pump interior Check coolant level and system for air leaks
Coolant leak	Loose connections Damaged seals/gaskets Cracked housing	Tighten pipe connections Replace seals/gaskets Contact customer support for replacement

8. SPECIFICATIONS

The following are the general specifications for the KEYAYEYA ACP-400FS250 Coolant Pump. Specific performance data may vary based on application and operating conditions.

- **Model:** ACP-400FS250
- **Manufacturer:** COOLANT (Compatible with A-RYUNG MACHINEY IND.CO.,LTD systems)
- **Part Number:** Standard
- **Item Weight:** Approximately 2 pounds
- **Product Dimensions:** Approximately 1 x 1 x 1 inches (L x W x H)
- **Included Components:** NEW (Pump unit)
- **ASIN:** B0F8PVMCCK
- **Date First Available:** May 15, 2025

9. WARRANTY AND SUPPORT

KEYAYEYA products undergo strict testing to ensure quality. If you encounter any issues or require technical guidance after receiving your product, please contact the merchant directly.

Contact Information:

- For product inquiries, technical support, or warranty claims, please contact the seller: [KEYAYEYA Parts factory](#).
- Please have your product model (ACP-400FS250) and ASIN (B0F8PVMCCK) ready when contacting support.

Note: After goods arrive in the destination country, taxes may need to be paid, and cooperation in handling customs clearance may be required.