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ANDTE ZJ-KBS-4A

ANDTE Automatic Condensate Pump (Model ZJ-KBS-4A) Instruction Manual

For HVAC/R Equipment, Air Conditioners, and Dehumidifiers

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your ANDTE Automatic Condensate Pump, Model ZJ-KBS-4A. This pump is designed to automatically remove condensate water from HVAC/R equipment, air conditioners, and dehumidifiers, ensuring optimal performance and preventing water damage.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation.

- Always disconnect power before performing any installation, maintenance, or troubleshooting.
- Ensure the pump is installed in a location where it is protected from freezing temperatures.
- Do not pump flammable liquids or chemicals. This pump is designed for condensate water only.
- Ensure all electrical connections comply with local codes and regulations.
- The pump is equipped with a water level alarm and automatic shutdown function to prevent overflow. Do not bypass these safety features.
- Keep hands and foreign objects away from moving parts during operation.

3. PRODUCT OVERVIEW AND COMPONENTS

The ANDTE Automatic Condensate Pump is a compact and durable unit designed for reliable condensate removal. It features a high-performance motor and an integrated float switch for automatic operation.

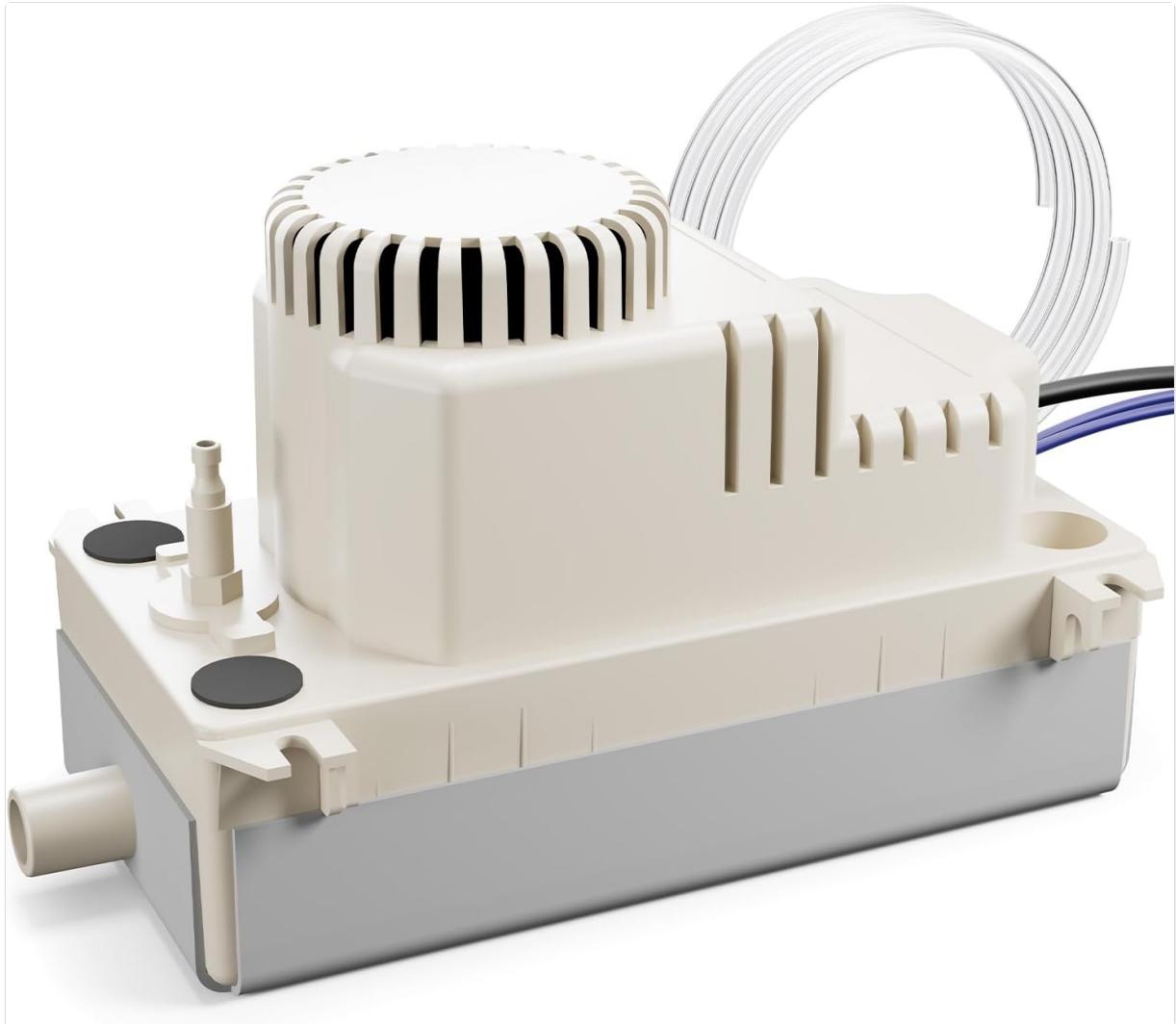


Figure 1: Main view of the ANDTE Automatic Condensate Pump.

AUTO & QUIET CONDENSATE PUMP

TANK CAPACITY

1/2 GALLON

MAX.HEAD

20FT

VOLTAGES

115V

MAX.FLOW

80 GPH

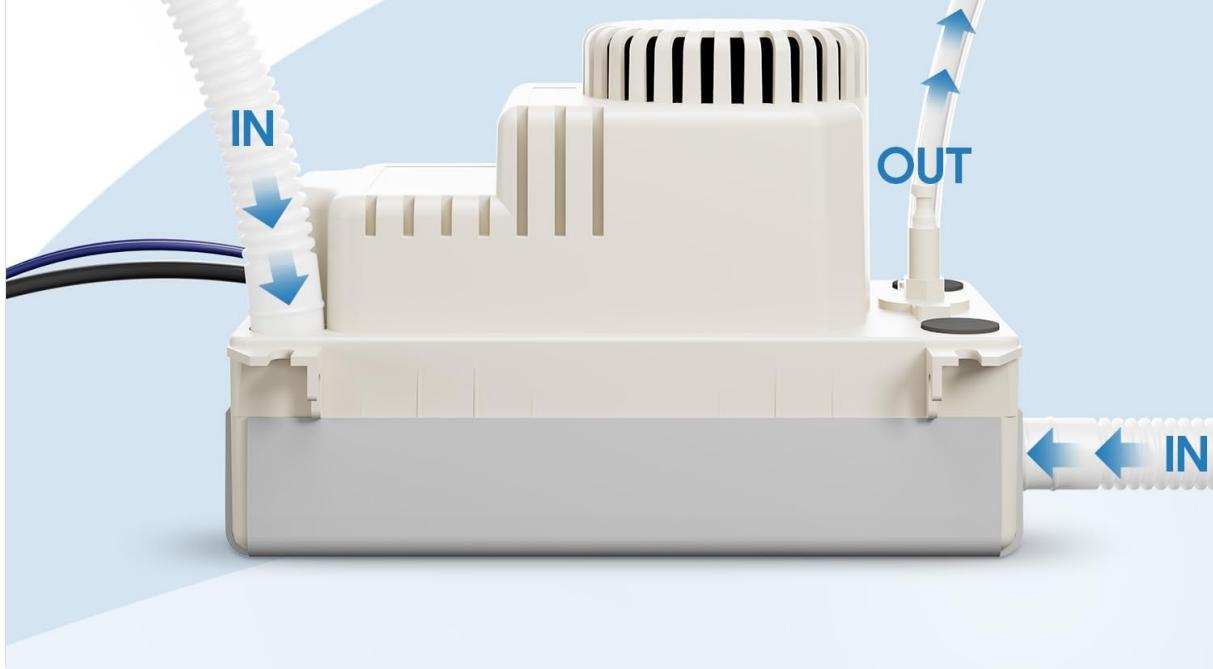


Figure 2: Diagram illustrating key specifications and water flow paths (IN/OUT) of the condensate pump.

4. SPECIFICATIONS

Below are the technical specifications for the ANDTE Automatic Condensate Pump, Model ZJ-KBS-4A:

Feature	Specification
Model Number	ZJ-KBS-4A
Rated Voltage AC	115V, 60Hz
Rated Power	40W (45W also indicated in image)
Horsepower	0.06 HP (1/16 HP)
Maximum Vertical Head	20 Feet
Maximum Flow Rate	80 Gallons Per Hour (GPH)
Tank Capacity	0.5 Gallon (approx.)

Feature	Specification
Level Switch	Built-in (Activates at 2.28 inches, shuts off at 1.26 inches)
Inlets	Five 1-inch (0.87-inch universal) water inlets (top/side optional)
Outlet	3/8-inch (4mm) universal water outlet (also 1/4 inch or 0.71 inch inlet outer)
Power Cord Length	3.3 feet (UL certified)
Dimensions (L x W x H)	9.45 x 5.3 x 5.7 inches (240 x 135 x 145mm)
Material	Robust Plastic
Item Weight	4.33 pounds

Rated Voltage AC:	115V,60Hz
Rated Power:	45W
The Maximum Life:	20Ft
Level Switch:	Built-in
Dimensions:	240*135*145mm/9.45*5.3*5.7inch
Unique Design:	Space-saving vertical centrifugal pump, equipped with a detachable 0.5-gallon storage tank for easy maintenance, featuring a corrosion-resistant heavy-duty plastic casing, four 0.87-inch universal inlets,
Outer diameter of outlet	
1/4 inch OR 3/8 inch, and one diameter 0.71-inch	
Inlet outer.	

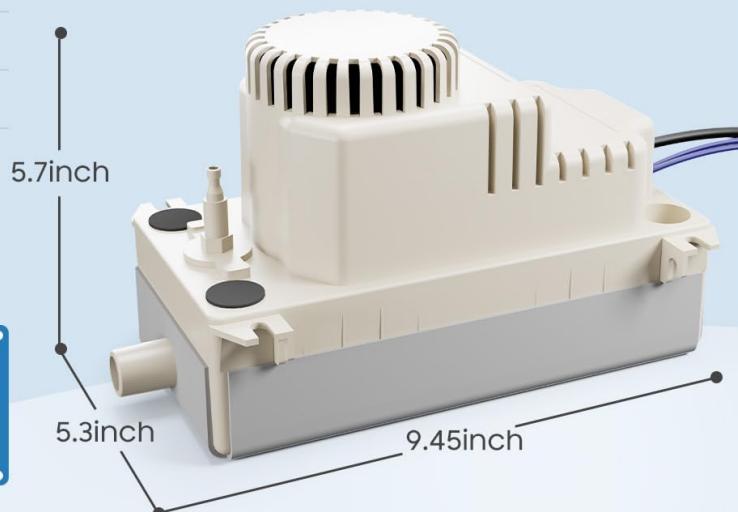


Figure 3: Detailed specifications and physical dimensions of the pump.

5. INSTALLATION AND SETUP

Follow these steps to properly install your condensate pump:

1. **Placement:** Position the pump on a stable, level surface near the condensate drain outlet of your

HVAC unit, air conditioner, or dehumidifier. Ensure it is below the drain outlet to allow gravity flow into the pump.

2. **Inlet Connection:** Connect the condensate drain line from your equipment to one of the 1-inch (0.87-inch universal) inlet ports on the pump. The pump offers multiple inlet options (top/side) for flexible installation. Secure the connection to prevent leaks.
3. **Outlet Connection:** Connect a 3/8-inch (4mm) discharge tube to the pump's outlet port. Route this tube upwards to the desired drainage location, ensuring it does not exceed the maximum vertical head of 20 feet. Avoid kinks or sharp bends in the tubing.
4. **Power Connection:** Plug the 3.3-foot UL power cord into a standard 115-volt, 60 Hz electrical outlet. Ensure the outlet is properly grounded.
5. **Test Operation:** Once all connections are secure, manually pour a small amount of water into the pump's reservoir to verify that the pump activates, discharges the water, and then shuts off automatically. Check for any leaks.



Figure 4: Example installation showing the condensate pump connected to a dehumidifier, with the discharge line routing water upwards.

6. OPERATING INSTRUCTIONS

The ANDTE Automatic Condensate Pump operates automatically based on the water level in its reservoir:

- When condensate water from your equipment flows into the pump's reservoir and reaches approximately 2.28 inches, the built-in float switch will activate the pump.
- The pump will then efficiently discharge the water through the connected outlet tube.
- Once the water level drops to approximately 1.26 inches, the float switch will automatically shut off the pump.
- This automatic cycle ensures continuous and reliable condensate removal without manual intervention.

7. MAINTENANCE

Regular maintenance is crucial for the longevity and efficient operation of your condensate pump. Perform the following maintenance tasks every 6 months:

- **Disconnect Power:** Always unplug the pump from the power outlet before beginning any maintenance.
- **Clean Liquid Storage Tank:** Carefully remove the pump cover and detach the liquid storage tank. Clean the inside of the tank to remove any sludge, mold, or debris that may have accumulated. Use mild soap and water, then rinse thoroughly.
- **Clean Float Ball:** Remove the float ball and clean it to ensure it moves freely without obstruction. Any buildup on the float can prevent proper activation or deactivation of the pump.
- **Clean Filter Tank:** If your model includes a separate filter tank, clean it as well to ensure unrestricted water flow.
- **Inspect Tubing:** Check the inlet and outlet tubing for any blockages, kinks, or signs of wear. Clear any obstructions.
- **Reassemble and Test:** Reassemble all components, ensuring they are securely in place. Plug the pump back in and perform a test run by pouring water into the reservoir to confirm proper operation.

8. TROUBLESHOOTING

If you encounter issues with your condensate pump, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
Pump does not turn on	No power; Float switch stuck; Motor failure	Check power connection; Clean float switch and reservoir; Contact support if motor fails.
Pump runs continuously	Float switch stuck in 'on' position; Leak in discharge line; Backflow	Clean float switch; Check discharge line for leaks or blockages; Ensure proper check valve function.
Water overflows from pump	Discharge line blocked or kinked; Pump not operating; Insufficient head height	Clear discharge line; Refer to 'Pump does not turn on' solutions; Ensure discharge height is within 20 feet.
Pump is noisy	Debris in pump; Pump not level; Air in system	Clean pump reservoir; Ensure pump is on a stable, level surface; Bleed air from discharge line if applicable.

9. APPLICATIONS

The ANDTE Automatic Condensate Pump is suitable for a variety of applications requiring efficient condensate removal:

- Dehumidifiers
- Air Conditioners (including embedded and wall-mount portable AC units)
- Commercial Ice Makers
- Boilers



Figure 5: Multiple applications for the ANDTE Automatic Condensate Pump, including dehumidifiers, air conditioners, and ice makers.

10. WARRANTY AND SUPPORT

ANDTE is committed to providing reliable products and customer satisfaction. While specific warranty details for this pump are not explicitly stated, ANDTE generally offers comprehensive support for its products.

- **General Warranty Information:** ANDTE products typically come with a 5-year limited coverage, including 1-year full coverage.
- **Return Policy:** A 30-day money-back guarantee is often provided.
- **Customer Support:** ANDTE aims to provide timely responses to customer inquiries, often within 12 hours.

For specific warranty claims, technical assistance, or any questions regarding your ANDTE Automatic Condensate Pump, please refer to the contact information provided with your purchase or visit the official ANDTE website.

Related Documents - ZJ-KBS-4A

 <p>ANDTE Commercial Dehumidifier User Manual</p> <p>Please read this user manual before operating and save for future reference. Model:DE260 / DE305</p>	<p><u>ANDTE Commercial Dehumidifier User Manual - Models DE260, DE305</u></p> <p>Comprehensive user manual for ANDTE commercial dehumidifiers, covering setup, operation, safety guidelines, maintenance, troubleshooting, and warranty information for models DE260 and DE305.</p>
 <p>ANDTE Model:PD80K</p> <p>Thank you for your order. You made our day.</p> <p>Thanks for your purchase. If you have any questions with our dehumidifier, please feel free to contact us.</p> <p>Please refer to the index on the navigation of the machine. This manual is for the PD10K/PD80K portable dehumidifier only.</p> <p>Email: Support@andten.com https://andten.com</p>	<p><u>ANDTE PD10K/PD80K Portable Dehumidifier User Manual and Troubleshooting Guide</u></p> <p>Comprehensive guide for the ANDTE PD10K/PD80K portable dehumidifier, covering setup, operation, troubleshooting, and service information. Learn how to use your dehumidifier effectively and resolve common issues.</p>
 <p>ANDTE Commercial Dehumidifier User Manual</p> <p>Please read this user manual before operating and save for future reference. Model: DY155</p>	<p><u>ANDTE Commercial Dehumidifier DY155 User Manual</u></p> <p>User manual for the ANDTE Commercial Dehumidifier, Model DY155. This guide provides instructions on operation, safety precautions, maintenance, and troubleshooting for the ANDTE dehumidifier.</p>
 <p>Commercial Dehumidifier User Manual</p> <p>Please read this user manual before operating and save for future reference.</p>	<p><u>ANDTE DE260 Commercial Dehumidifier User Manual</u></p> <p>User manual for the ANDTE DE260 commercial dehumidifier, providing instructions on operation, maintenance, troubleshooting, and safety precautions. Learn how to use and care for your dehumidifier for optimal performance and longevity.</p>
 <p>ANDTE Commercial Dehumidifier User Manual</p> <p>Model No.: DS190P</p> <p>Please read this User Manual before operating and save for future reference.</p>	<p><u>ANDTE DS190P Commercial Dehumidifier User Manual</u></p> <p>User manual for the ANDTE DS190P commercial dehumidifier, covering safety information, operation instructions, maintenance, troubleshooting, and warranty. Learn how to operate and maintain your unit for optimal performance.</p>

