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> Vipxyc PTC Ceramic Air Heater (Model Vipxyct5wio1bn2e) Instruction Manual

Vipxyc Vipxyct5wio1bn2e

Vipxyc PTC Ceramic Air Heater Instruction Manual

Model: Vipxyct5wio1bn2e | Brand: Vipxyc

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Vipxyc PTC Ceramic Air Heater. This device utilizes ceramic heating technology and an aluminum tube for efficient heat transfer. It is designed for applications requiring automatic constant temperature and energy-saving operation.

The Vipxyc PTC Ceramic Air Heater is suitable for integration into various systems such as air conditioners, electric heaters, clothes dryers, and humidifiers.

A ELECTRIC HEATER WITH AUTOMATIC CONSTANT TEMPERATURE AND ENERGY SAVING.

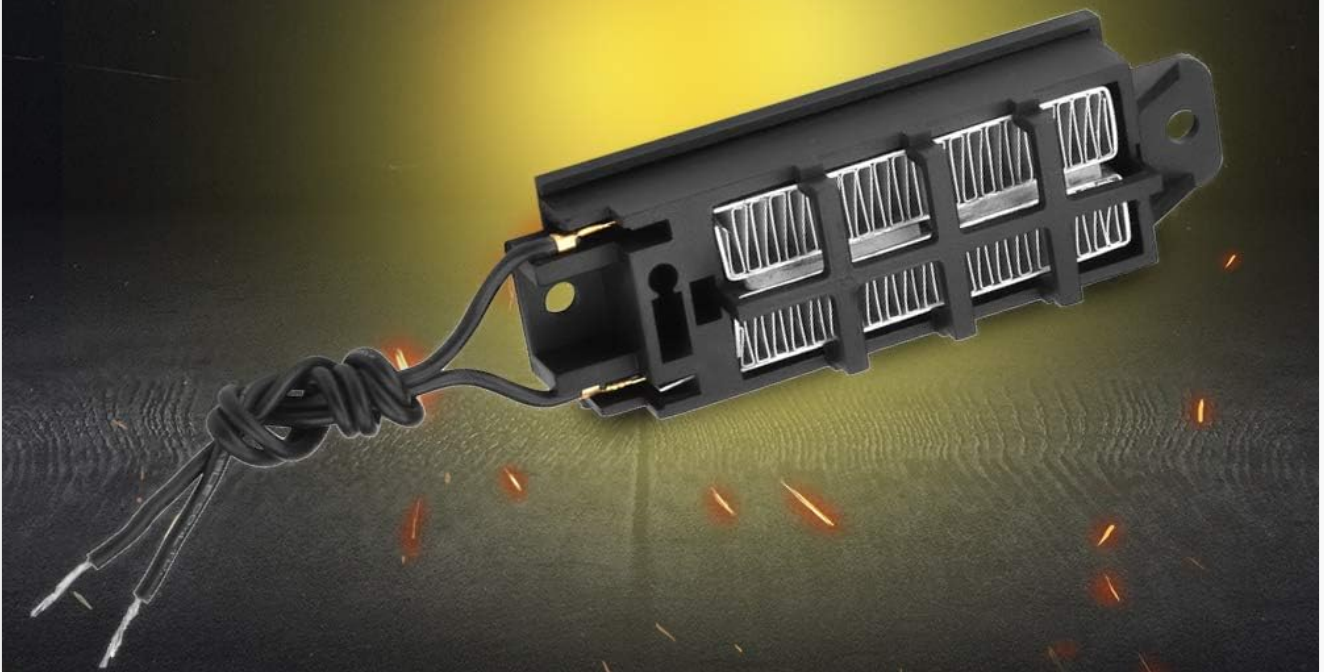


Figure 1: Conceptual illustration of the heater's automatic constant temperature and energy-saving function.

2. SAFETY INFORMATION

WARNING: This is an electrified heater. Exercise extreme caution during installation and operation. When the heater is working, the aluminum parts are conductive. Ensure proper insulation and electrical safety measures are in place to prevent electric shock.

- Always disconnect power before installation, maintenance, or inspection.
- Ensure the heater is installed in a well-ventilated area to prevent overheating.
- Do not touch the heating elements or aluminum parts when the device is powered on.
- Verify that the power supply voltage matches the specified voltage for the heater (AC/DC 12V).
- Keep away from flammable materials.
- Installation should be performed by qualified personnel if you are unsure about electrical connections.

3. PRODUCT OVERVIEW

3.1 Features

- Adopts ceramic heating and aluminum tube for low thermal resistance and high heat transfer efficiency.
- Automatic constant temperature operation.
- Energy-saving characteristics.
- Designed for easy installation and maintenance.
- Superior performance for various applications.

3.2 Components

The Vipxyc PTC Ceramic Air Heater consists of a ceramic heating element encased within an aluminum tube, integrated into a compact housing with electrical leads for connection.



Figure 2: Front view of the Vipxyc PTC Ceramic Air Heater, showing the ceramic heating elements and electrical connections.



Figure 3: Angled perspective of the heater, highlighting its compact design and the exposed heating fins.



Figure 4: Top-down view of the heater, illustrating the arrangement of the ceramic heating elements within the housing.

4. SPECIFICATIONS

Specification	Value
Material	Aluminum
Weight	47g / 1.7oz
Power	50W

Specification	Value
Voltage	AC / DC 12V
Surface Temperature	200±10°C
Dimensions (L x W x H)	95 x 31 x 25mm / 3.7 x 1.2 x 1 inch
Model Number	Vipxyct5wio1bn2e

5. SETUP

The Vipxyc PTC Ceramic Air Heater is designed for integration into existing systems. Installation typically involves securing the heater in place and connecting it to a compatible 12V AC or DC power source.

- Mounting:** Secure the heater using appropriate fasteners through the designated mounting holes. Ensure the heater is positioned to allow for adequate airflow around the heating elements.
- Electrical Connection:** Connect the heater's leads to a 12V AC or DC power supply. Observe proper polarity if connecting to a DC source, although PTC heaters generally function regardless of polarity for basic heating. For specific applications, consult the system's electrical diagram.
- Ventilation:** Ensure the installation environment provides sufficient ventilation to dissipate heat and prevent the heater from exceeding its operational temperature limits.
- Testing:** After installation, carefully apply power and observe the heater's operation. Confirm that it heats up as expected and that all connections are secure.

It is recommended to integrate this heater with a temperature control system for optimal performance and safety in specific applications.

6. OPERATING INSTRUCTIONS

Once properly installed and connected to a 12V AC/DC power source, the Vipxyc PTC Ceramic Air Heater will begin to operate. Its PTC (Positive Temperature Coefficient) characteristic allows for automatic constant temperature and energy-saving functionality.

- Automatic Temperature Control:** The PTC element self-regulates its temperature. As the ambient temperature increases, the resistance of the PTC element also increases, reducing current flow and thus heat output. Conversely, as the ambient temperature decreases, resistance drops, and heat output increases, maintaining a relatively constant surface temperature.
- Energy Saving:** Due to its self-regulating nature, the heater consumes less power once the desired temperature is reached, contributing to energy efficiency.
- Continuous Operation:** The heater is designed for continuous operation within its specified voltage and environmental conditions.

7. MAINTENANCE

The Vipxyc PTC Ceramic Air Heater is designed for low maintenance. However, periodic checks are recommended to ensure optimal performance and safety.

- Power Disconnection:** Always ensure the heater is disconnected from the power supply before performing any

maintenance.

- **Cleaning:** Periodically inspect the heating elements and surrounding areas for dust or debris accumulation. Use a soft, dry brush or compressed air to gently remove any buildup. Do not use liquids or abrasive cleaners.
- **Connection Check:** Verify that all electrical connections remain secure and free from corrosion.
- **Physical Inspection:** Check for any signs of physical damage to the heater's housing, elements, or wiring. Replace the unit if significant damage is observed.

8. TROUBLESHOOTING

If the heater is not functioning as expected, consider the following troubleshooting steps:

- **No Heat Output:**
 - Check if the power supply is connected and active.
 - Verify that the voltage supplied is 12V AC/DC.
 - Inspect electrical connections for looseness or damage.
- **Insufficient Heat:**
 - Ensure adequate airflow around the heater; restricted airflow can reduce efficiency.
 - Confirm the ambient temperature is within the expected operating range for the heater's self-regulation.
 - Check for significant dust or debris on the heating elements that might impede heat transfer.
- **Overheating (Unusual Odor/Smoke):**
 - Immediately disconnect power.
 - Inspect for any foreign objects or blockages.
 - Ensure the heater is not installed in an enclosed space without proper ventilation.
 - If the issue persists after power cycling and inspection, discontinue use and consult a qualified technician.

For issues not resolved by these steps, professional assistance may be required.

9. WARRANTY AND SUPPORT

Specific warranty details for the Vipxyc PTC Ceramic Air Heater (Model Vipxyct5wio1bn2e) are not provided within this manual. Please refer to the product packaging or your point of purchase for information regarding warranty coverage and customer support.

For technical assistance or inquiries, please contact the manufacturer or your retailer.