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Walfront Wal frontgyo4zq3wrb-02

Walfront Ceramic Air Heater 110V 300W Instruction Manual

Model: Wal frontgyo4zq3wrb-02

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Walfront Ceramic Air Heater. This device utilizes a PTC ceramic heating element and an aluminum tube, designed for low thermal resistance and high heat transfer efficiency. It features automatic constant temperature control and energy-saving capabilities, making it suitable for various small space heating applications.

Typical applications include air conditioners, electric heaters, instruments, general appliances, air curtain machines, and humidifiers.

Wide Range of Application

Application: air conditioner, electric heater, instrument, general appliance, air curtain machine, humidifier, etc.



Image 1.1: Examples of the Walfront Ceramic Air Heater's wide range of applications, including bathrooms, air conditioners, dehumidifiers, and industrial dryers.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installing or operating the heater. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Electrical Safety:** Ensure the power supply voltage matches the heater's rated voltage (110V). Wiring should be performed by a qualified professional.
- **Insulation:** The heater features surface insulation for high security. However, avoid direct contact with the heating element during operation.
- **Ventilation:** Ensure adequate airflow around the heater to prevent overheating. Do not obstruct air inlets or outlets.
- **Placement:** Install the heater in a stable location, away from flammable materials. Do not use in environments with excessive dust or corrosive gases.
- **Moisture:** Avoid exposing the heater to water or high humidity, unless specifically designed for such environments.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.

3. PRODUCT OVERVIEW

The Walfront Ceramic Air Heater is a compact and efficient heating solution. It consists of a PTC thermistor heating element integrated with an aluminum tube for optimal heat transfer. The design prioritizes safety with surface insulation and automatic constant temperature functionality.

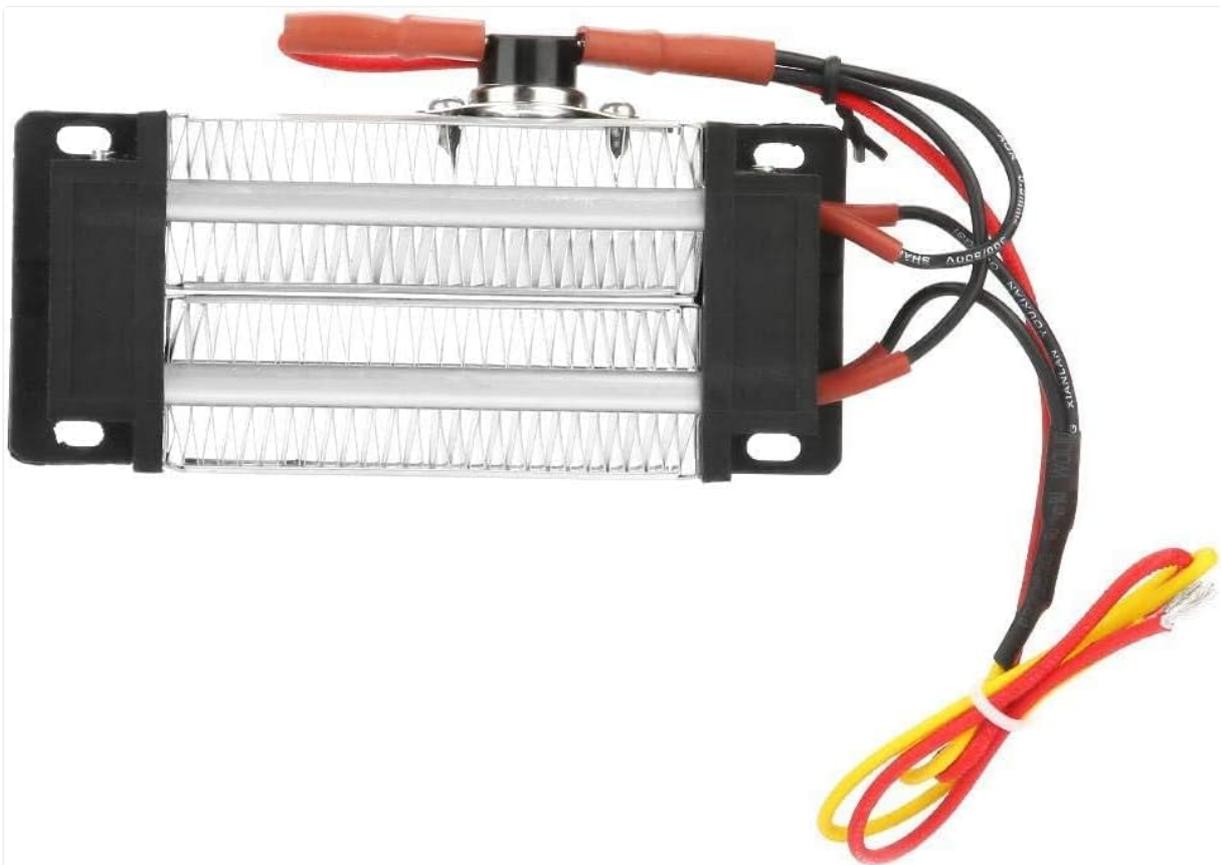


Image 3.1: Front view of the Walfront Ceramic Air Heater, showing the heating fins and electrical connections.

Key Features:

- **PTC Ceramic Heating Element:** Ensures low thermal resistance and high heat transfer efficiency.
- **Automatic Constant Temperature:** Maintains a stable temperature without manual adjustment.

- Surface Insulation: Provides enhanced safety during operation.
- Energy Efficient: Designed for optimal power consumption.
- Compact and Lightweight: Easy to integrate into various systems.

Details



PTC Ceramic Air Heater

Adopts of PTC ceramic heating element and aluminum tube, low thermal resistance, high heat transfer efficiency.

Automatic Constant Temperature

This PTC ceramic air heater has the characteristic of surface insulation and high security.



Image 3.2: Close-up view detailing the PTC ceramic heating element, aluminum tube, and insulated wiring of the heater.

4. SETUP

4.1 Mounting

The heater is designed for easy mounting. Refer to the dimensions below for proper installation.

Walfront

110V 300W PTC Ceramic Air Heater



Low Thermal Resistance

High Heat Transfer Efficiency

Surface Insulation Air Heater

Automatic Constant Temperature

Image 4.1: Dimensions of the Walfront Ceramic Air Heater, showing length (120mm/4.7inch), width (51mm/2inch), and height (26mm/1inch).

1. Identify a suitable mounting location that allows for adequate airflow and is free from obstructions.
2. The mounting hole distance is 100x44mm, with 8x4mm waist holes.
3. Secure the heater using appropriate fasteners (not included) through the designated mounting holes.

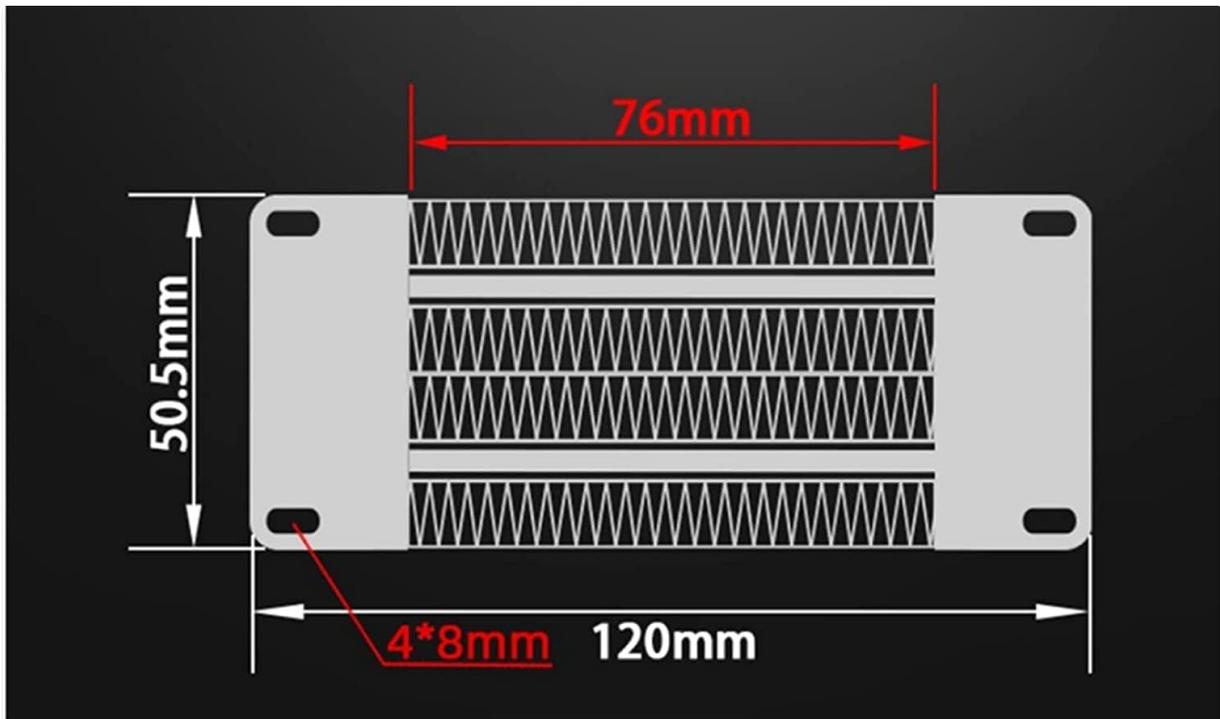


Image 4.2: Technical drawing illustrating the mounting hole distance (100x44mm) and overall dimensions of the heater.

4.2 Electrical Connection

Connect the heater to a 110V power supply. The bare lines are connected, and the polarity (positive and negative pole) does not matter for the rated voltage.

1. Ensure the power source is disconnected before making any electrical connections.
2. Connect the high-temperature resistance wires from the heater to your 110V power supply.
3. Verify all connections are secure and properly insulated.

ADOPTS OF PTC CERAMIC HEATING ELEMENT AND ALUMINUM TUBE, LOW THERMAL RESISTANCE, HIGH HEAT TRANSFER EFFICIENCY.



Image 4.3: Schematic diagram illustrating the connection of a power supply to the heating element, indicating that polarity is not critical for this device.

5. OPERATING INSTRUCTIONS

Once properly installed and connected to power, the Walfront Ceramic Air Heater will begin to operate. It is designed for continuous operation with its automatic constant temperature feature.

1. **Power On:** Apply 110V power to the heater. The unit will immediately begin to generate heat.
2. **Automatic Constant Temperature:** The PTC thermistor element will automatically adjust its resistance to maintain a stable temperature, ensuring energy efficiency and preventing overheating under normal operating conditions.
3. **Power Off:** Disconnect the power supply to turn off the heater.

Note: The heater's surface will become hot during operation. Ensure proper ventilation and avoid direct contact.

6. MAINTENANCE

The Walfront Ceramic Air Heater requires minimal maintenance. Regular inspection and cleaning can help

ensure its longevity and optimal performance.

- **Cleaning:** Periodically inspect the heating fins for dust accumulation. Disconnect power and allow the unit to cool completely before gently cleaning with a soft brush or compressed air. Do not use liquids for cleaning.
- **Inspection:** Regularly check the electrical connections and wiring for any signs of damage or wear. Ensure mounting is secure.
- **Storage:** If storing the heater for an extended period, ensure it is clean, dry, and stored in a safe environment.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your ceramic air heater.

Problem	Possible Cause	Solution
Heater does not turn on.	No power supply; loose connection; incorrect voltage.	Check power source; verify all electrical connections are secure; ensure 110V supply.
Insufficient heat output.	Poor airflow; heater used in too large a space; dust accumulation on fins.	Ensure adequate ventilation; confirm heater wattage is appropriate for the space; clean heating fins.
Overheating (unlikely due to PTC).	Blocked airflow; faulty unit.	Check for and clear any obstructions; if problem persists, discontinue use and contact support.

8. SPECIFICATIONS

Detailed technical specifications for the Walfront Ceramic Air Heater 110V 300W.

Feature	Detail
Brand	Walfront
Model Number	Wal frontgyo4zq3wrb-02
Material	Aluminum & Plastic
Heating Material	PTC Thermistor
Heating Mode	Heat through the flow of air
Lead Material	High temperature resistance wire
Heating Life	Over 3 years
Power	300W (Optional 200W also available for other models)
Voltage	110V (AC)
Amperage	2.73 Amps (at 110V, 300W)

Feature	Detail
Mounting Hole Distance	100 x 44mm (waist hole: 8 x 4mm)
Corrugation Length	76mm
Dimensions (L x W x H)	120 x 51 x 26mm (4.7 x 2 x 1 inch)
Weight	143g / 5oz
Max Temperature Setting	70 Degrees Fahrenheit (as per product specifications, likely referring to ambient or controlled temperature)

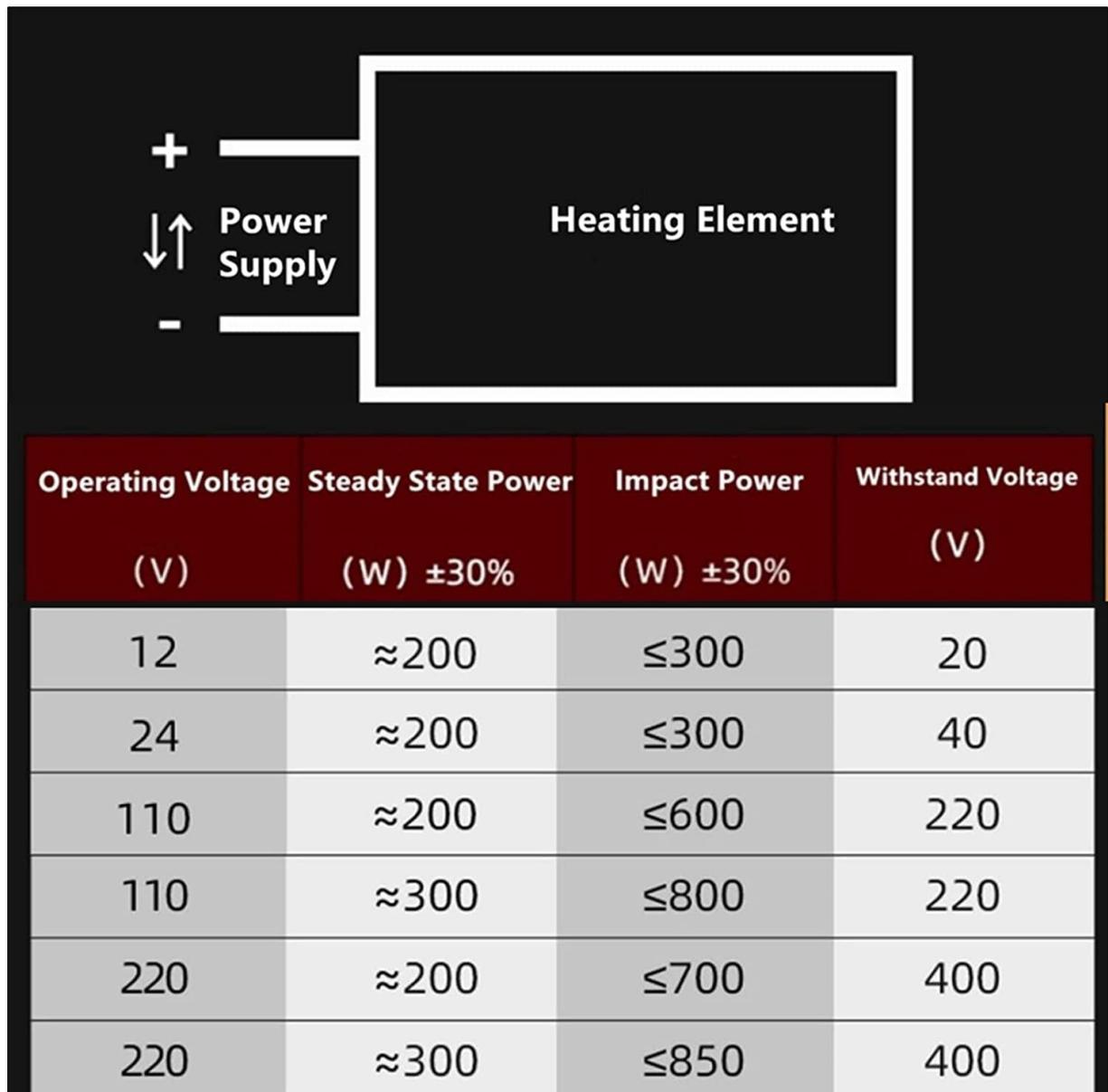


Image 8.1: Table illustrating various operating voltages, steady state power, impact power, and withstand voltage for different heater configurations.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the retailer where the product was purchased

or visit the official Walfront website. Keep your purchase receipt as proof of purchase.
For further assistance, you may contact Walfront customer service through their official channels.