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## ZAMTAC H30-R1

# ZAMTAC H30-R1 3KW Spa Tub Heater with Pressure Switch User Manual

Model: H30-R1

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your ZAMTAC H30-R1 3KW Straight LX Spa Tub Heater. Please read these instructions thoroughly before installation and use to ensure proper function and to prevent injury or damage.

## 2. SAFETY INFORMATION

### **WARNING: RISK OF ELECTRIC SHOCK.**

- Connect this unit only to a circuit protected by a Ground Fault Circuit Interrupter (GFCI).
- Grounding is required. Ensure the unit is properly grounded.
- For your safety, this product must be installed by a professional service technician or qualified electrician.
- Do not cover the heater during operation.
- Always disconnect power before performing any service or maintenance.
- Ensure all electrical connections are secure and comply with local electrical codes.



**Image 2.1:** Close-up view of the heater's warning label and technical specifications. The label clearly states electrical safety warnings and installation requirements by a qualified professional.

### 3. PRODUCT OVERVIEW

The ZAMTAC H30-R1 is a 3KW straight LX spa tub heater designed for efficient water heating in spas, hot tubs, and massage bathtubs. It features an integrated pressure switch for safe operation and comes with necessary cables and fittings for installation.

#### Key Features:

- 3KW heating power for rapid water temperature increase.
- Integrated pressure switch for flow detection and safety.
- Straight design for versatile installation.
- Includes 2m power cable, 2m pressure switch cable, and 1.5" tailpieces/unions.



**Image 3.1:** Top-down view of the ZAMTAC H30-R1 spa tub heater, showing its compact design and integrated components.



**Image 3.2:** View of the heater highlighting the power cable, pressure switch cable, and connection points.

## 4. SETUP AND INSTALLATION

Installation of the ZAMTAC H30-R1 heater requires professional expertise due to electrical and plumbing connections. Refer to local codes and regulations.

### 4.1. Pre-Installation Checks:

- Verify that the power supply matches the heater's requirements (AC220-240V, 50/60Hz).

- Ensure the installation location provides adequate space for maintenance and proper ventilation.
- Confirm that the plumbing system is compatible with 1.5" tailpieces and unions.

#### 4.2. Plumbing Connection:

1. Position the heater in a horizontal orientation, ensuring the water flow direction matches the arrow on the heater body.
2. Connect the heater to the spa's plumbing system using the provided 1.5" tailpieces and unions. Ensure all connections are watertight.
3. The heater should be installed after the pump and filter, ensuring a continuous flow of water through the unit when the pump is operating.



**Image 4.1:** Side view of the heater, illustrating the straight design and connection points for water flow. Note the arrow indicating water flow direction.

#### 4.3. Electrical Connection:

1. Ensure the main power supply to the spa system is OFF before making any electrical connections.
2. Connect the 2m power cable from the heater to a dedicated, GFCI-protected electrical circuit.
3. Connect the 2m pressure switch cable to the appropriate terminals on your spa's control system. This cable connects to the internal pressure switch of the heater, which detects water flow.
4. Verify all wiring connections are tight and correctly insulated.
5. The heater requires proper grounding. Ensure the grounding wire is securely connected.

### 5. OPERATING INSTRUCTIONS

Once installed by a qualified professional, operating the ZAMTAC H30-R1 heater is typically managed through your spa's main control panel.

1. **Fill the Spa:** Ensure the spa or tub is filled with water to the appropriate level before activating the heater.
2. **Activate Pump:** Turn on the spa pump to ensure water circulation through the heater. The pressure switch will only allow the heater to operate when sufficient water flow is detected.
3. **Set Temperature:** Use your spa's control panel to set the desired water temperature. The heater will automatically activate to reach and maintain this temperature.
4. **Monitor Operation:** Observe the heater's indicator lights (if present) and the spa's temperature display to confirm proper operation.

5. **Shut Down:** To turn off the heater, simply adjust the temperature setting on your spa's control panel or turn off the main power to the spa system.

**IMPORTANT: Never operate the heater without proper water flow. This can lead to overheating and damage to the unit.**

## 6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your ZAMTAC H30-R1 heater.

- **Inspect Connections:** Periodically check all plumbing and electrical connections for leaks or loose wiring.
- **Clean Filters:** Ensure your spa's water filters are clean and free of debris to maintain adequate water flow through the heater.
- **Water Chemistry:** Maintain proper water chemistry in your spa to prevent scale buildup and corrosion within the heater element.
- **Winterization:** If the spa is to be shut down for an extended period or during freezing temperatures, ensure the heater is completely drained to prevent freeze damage. Consult your spa's manual for specific winterization procedures.
- **Professional Inspection:** It is recommended to have a qualified technician inspect the heater annually.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your ZAMTAC H30-R1 heater. For complex problems, contact a qualified service technician.

Problem	Possible Cause	Solution
Heater not turning on	No power; GFCI tripped; Insufficient water flow; Faulty pressure switch; Thermostat setting too low.	Check power supply and circuit breaker; Reset GFCI; Ensure pump is running and filters are clean; Verify pressure switch operation (professional); Adjust thermostat setting.
Water not heating	Heater element failure; Incorrect thermostat setting; Low voltage; Air lock in plumbing.	Contact professional for element replacement; Adjust thermostat; Check power supply voltage; Bleed air from plumbing system.
Heater tripping GFCI	Electrical short; Water ingress; Faulty heating element.	Immediately disconnect power and contact a qualified electrician. Do not attempt to operate.
Error code on spa panel	Specific spa system error related to heater or flow.	Refer to your spa's main control system manual for error code definitions and solutions.

## 8. SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Number	H30-R1
Brand	ZAMTAC
Power	3KW (3000W)
Voltage	AC220-240V
Frequency	50/60Hz
Amperage	13.6A
Ingress Protection (IP) Rating	IPX5
Maximum Pressure	0.3MPa
Included Cables	2m Power Cable, 2m Pressure Switch Cable
Pipe Connections	1.5" Tailpieces and Unions

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please contact your original point of purchase or the ZAMTAC customer service department. Keep your purchase receipt as proof of purchase.

Always refer to a qualified professional for installation, service, and repairs to ensure safety and maintain warranty validity.