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> YJSDXBSF 15KW 220V-240V Pool Heater ST-15 Instruction Manual

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Brand: YJSDXBSF | Model: ST-15

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your YJSDXBSF 15KW 220V-240V Pool Heater, Model ST-15. Designed for above-ground pools, hot tubs, and spas, this heater ensures comfortable water temperatures. Please read all instructions carefully before use and retain this manual for future reference.



Figure 1: YJSDXBSF 15KW 220V-240V Pool Heater.

2. IMPORTANT SAFETY INFORMATION

Failure to follow these safety instructions could result in fire, electric shock, serious injury, or death. Always consult a qualified electrician and plumber for installation.

- **Electrical Installation:** This product requires a 220V-240V electrical connection. Installation must be performed by qualified professionals in accordance with local electrical codes. Ensure proper grounding.
- **Water Flow:** The heater requires a minimum water flow rate of 20 GPM (gallons per minute) to operate safely and effectively. Ensure your circulation pump meets this requirement.
- **Placement:** Install the heater in a suitable indoor or outdoor location, fixed on a smooth, flat surface, at least 200-300 mm from any wall for proper ventilation and maintenance access.
- **Disconnection:** Always disconnect all power to the unit before performing any service or maintenance. Do not remove the terminal cover/service access panel unless power is disconnected.
- **Water Quality:** Maintain proper water chemistry in your pool or spa to prevent damage to the heater components.

3. PRODUCT OVERVIEW AND FEATURES

The YJSDXBSF 15KW Pool Heater is designed for efficient and reliable water heating. Key features include:

- **Powerful Heating:** Equipped with 15KW power (220V-240V) for rapid heating of pools, hot tubs, and spas.
- **Thermostat Control:** Integrated thermostat for precise temperature management.
- **Digital Touchscreen Display:** Intuitive interface for setting temperature and monitoring status.
- **Safety Features:** Includes anti-dry burn protection, water-shortage auto shut-off, and temperature control start/stop.
- **Durable Construction:** Features 316 stainless steel heating elements for longevity.
- **Compatibility:** Designed for use with a 1HP or greater circulation pump.

Digital Interface



Figure 2: The intuitive digital interface allows for precision control of temperature within a 77°F-122°F range, with °F/°C toggle

and real-time temperature display.

Heating Elements



Figure 3: Internal view of the heater showcasing the upgraded 316 stainless steel heating elements.

4. INSTALLATION

Proper installation is crucial for the safe and efficient operation of your pool heater. This unit requires professional electrical and plumbing installation.


4.1 Electrical Wiring

The heater must be hardwired to a dedicated 220V-240V circuit. Ensure the circuit breaker and wire gauge are appropriate for the heater's power requirements. Refer to the wiring diagram and specifications table below.

CONNECT WITH CIRCULATION PUMP

\geq **1HP**
CIRCULATION PUMP



 **Circulation Pump - 1hp**



Submersible Pump



Booster Pump



Figure 5: Illustration showing the correct connection of the heater with a 1HP circulation pump. Submersible and booster pumps are not suitable.

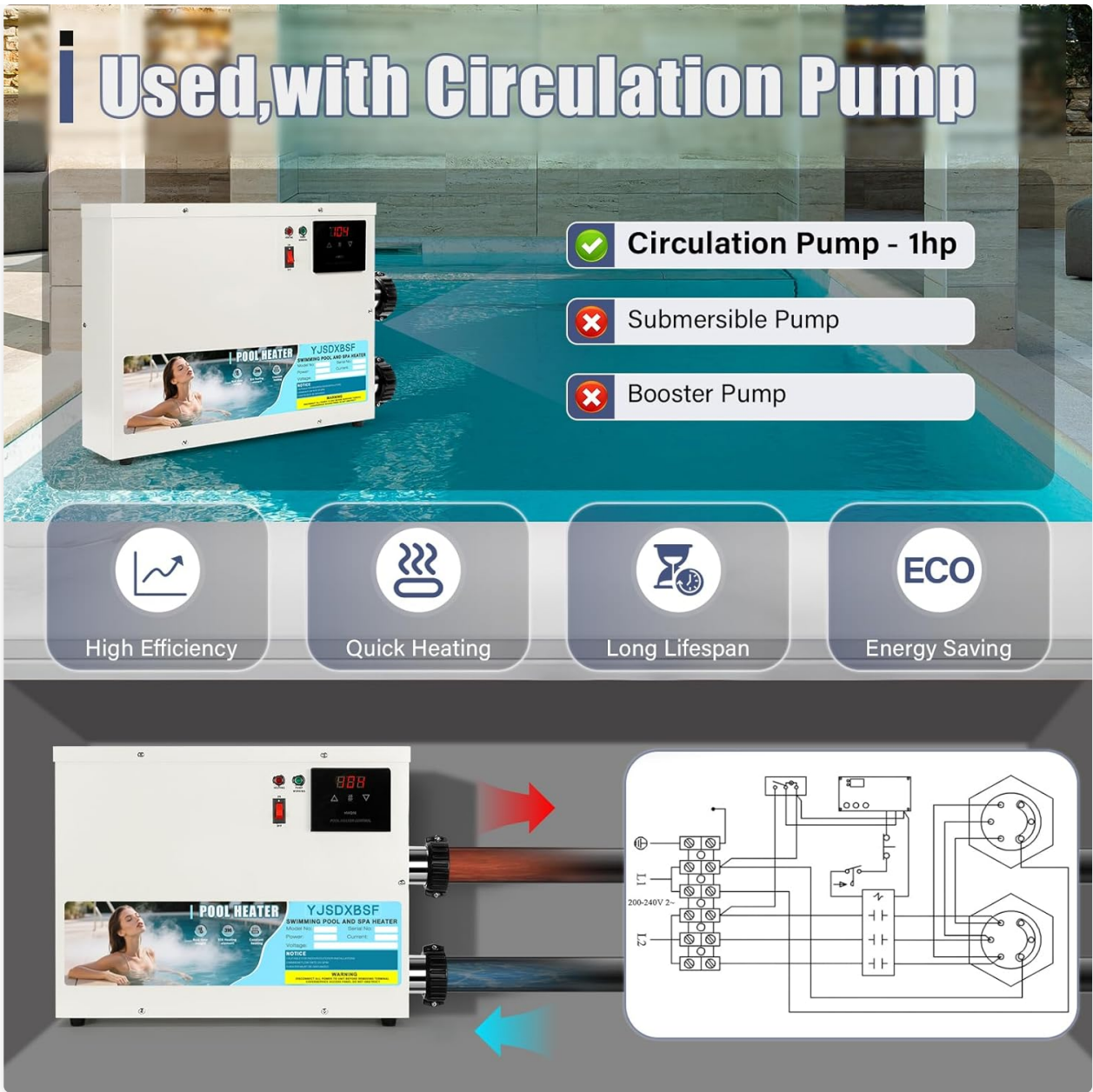


Figure 6: Overview of the heater's plumbing connections and a simplified electrical diagram.

4.3 Installation Specifications Table

Parameter	5.5KW Model	9KW Model	11KW Model
Power	5.5KW	9KW	11KW
Voltage	220V	220V	220V
Phase	2	2	2
Current	25A	41A	50A
Breaker Required	40A	50A	60A
Wire	10AWG	7AWG	7AWG
Plumbing Size	SCH40 1.5" PVC	SCH40 1.5" PVC	SCH40 1.5" PVC
Circulation Pump	≥1HP	≥1HP	≥1HP

Parameter	5.5KW Model	9KW Model	11KW Model
Suggested Capacity	700Gals	1000Gals	1300Gals

Table 1: Electrical and plumbing specifications for different power models.

5. OPERATING INSTRUCTIONS

Once properly installed and connected, operating your YJSDXBSF Pool Heater is straightforward using the digital touchscreen interface.

- **Power On/Off:** Use the main power switch located on the front panel to turn the heater on or off.
- **Setting Temperature:** Use the 'Up' (Δ) and 'Down' (∇) arrows on the digital display to adjust the desired water temperature. The temperature range is typically 77°F to 122°F (25°C to 50°C).
- **Temperature Unit Toggle:** The display allows switching between Fahrenheit (°F) and Celsius (°C) units. Refer to the specific button or menu option on your display for this function.
- **Automatic Heating:** The heater will automatically activate when the water temperature falls below your set point and deactivate once the desired temperature is reached.
- **Monitoring:** The digital display provides real-time water temperature readings and operational status.



Figure 7: The touchscreen display allows for precise temperature setting and monitoring.



Figure 8: Diagram illustrating the automatic circulation heating process and recommended temperature ranges for pools (78-86°F) and hot tubs/spas (104°F).

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your pool heater.

- **Routine Inspection:** Periodically check all electrical connections, plumbing, and the heater casing for any signs of wear, damage, or leaks.
- **Cleanliness:** Keep the area around the heater clean and free from debris to ensure proper ventilation.
- **Water Chemistry:** Maintain balanced water chemistry in your pool or spa to prevent scale buildup and corrosion within the heater.
- **Winterization:** If you live in an area with freezing temperatures, follow proper winterization procedures to drain the heater and prevent freeze damage. Consult a professional if unsure.

7. TROUBLESHOOTING

If you encounter issues with your heater, refer to the following common troubleshooting steps. For complex problems, contact a qualified technician.

- **Heater Not Turning On:** Check the main power switch, circuit breaker, and ensure there is adequate water flow.
- **Insufficient Heating:** Verify the set temperature, check for proper water flow, and ensure the heater is correctly sized for your pool/spa volume.
- **Error Codes:** If the digital display shows an error code, consult the specific error code section in the full user manual (if available) or contact customer support.
- **Leaks:** Immediately shut off power and water supply if a leak is detected. Inspect plumbing connections and seals.

8. SPECIFICATIONS

Specification	Value
Model Number	ST-15
Power	15 KW
Voltage	220V-240V
Item Weight	16.61 pounds
Product Dimensions	1 x 1 x 1 inches (Note: This dimension seems generic, refer to actual product for precise measurements)
Manufacturer	YJSDXBSF

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact details provided with your purchase or visit the official YJSDXBSF website. Keep your proof of purchase for warranty claims.