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> Pentair Sta-Rite Max-E-Pro P6E6E-206L Pool and Spa Pump Instruction Manual

## Pentair P6E6E-206L

# Pentair Sta-Rite Max-E-Pro P6E6E-206L Pool and Spa Pump Instruction Manual

Model: P6E6E-206L

## 1. INTRODUCTION

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This manual provides essential information for the safe installation, operation, and maintenance of your Pentair Sta-Rite Max-E-Pro P6E6E-206L single-speed pool and spa pump. Please read all instructions carefully before installation and use to ensure proper function and to prevent injury or damage. This pump is designed for use in swimming pool and spa applications.

## 2. IMPORTANT SAFETY INFORMATION

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Always follow basic safety precautions to reduce the risk of injury, fire, electric shock, or property damage. This equipment must be installed and serviced by a qualified pool professional in accordance with all applicable local and national codes and ordinances.

- **Electrical Hazard:** Disconnect power before servicing. Failure to do so can result in severe injury or death.
- **Pressure Hazard:** Do not operate the pump if any part of the system is not properly assembled or if the strainer pot lid is not securely fastened.
- **Suction Hazard:** Avoid body contact with suction fittings. Hair or body parts can become trapped, leading to severe injury or drowning.
- **Chemical Hazard:** Handle pool chemicals with care. Refer to chemical manufacturer's instructions for safe handling.
- Ensure the pump is properly grounded and bonded.

## 3. SETUP AND INSTALLATION

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### 3.1 Unpacking

Carefully remove the pump from its packaging. Inspect the unit for any signs of shipping damage. Report any

damage to your supplier immediately.

### 3.2 Location

Install the pump as close to the pool or spa as possible to minimize friction loss from long suction lines. Ensure the location is well-ventilated, protected from excessive moisture, and allows for adequate access for maintenance. The pump should be installed on a firm, level base that can support its weight.

### 3.3 Mounting

Secure the pump to its base using appropriate fasteners. The pump base includes two 1/2-inch (12.70 mm) diameter holes for mounting. Refer to the dimension diagram for precise measurements.



Figure 1: Pentair Sta-Rite Max-E-Pro P6E6E-206L Pool and Spa Pump. This image shows the complete pump assembly, including the motor, wet end, and strainer pot.



Figure 2: Dimensional drawing of the Pentair Sta-Rite Max-E-Pro P6E6E-206L pump. This diagram provides critical measurements for installation, including overall length (A), height, and port locations for 2-inch NPT & 2-inch union discharge and suction connections.

### 3.4 Plumbing

The pump features 2-inch ports with both external and internal threads for versatile plumbing options. Use appropriate PVC or other approved piping materials. Ensure all connections are watertight using thread sealant. Avoid overtightening connections.

### 3.5 Electrical Connections

This pump operates on 115/230-Volt AC power. It is a 1 HP motor with a 16/8-full load ampere rating. All electrical wiring must be performed by a licensed electrician and comply with local and national electrical codes. Ensure the correct voltage is supplied to the pump. The pump must be properly grounded and bonded to the pool structure.

## 3.6 Priming the Pump

Before starting the pump, the strainer pot must be filled with water. Remove the strainer pot lid, fill the pot with water, and replace the lid securely. The pump is self-priming up to 15 feet above water level, but initial manual priming is recommended for faster startup.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Starting the Pump

1. Ensure all valves in the plumbing system are open to allow water flow to and from the pump.
2. Verify the strainer pot is filled with water and the lid is securely tightened.
3. Turn on the electrical power to the pump. The pump should start and begin to circulate water.
4. Observe the pressure gauge on your filter system. The pressure should stabilize within the normal operating range for your filter.

### 4.2 Routine Operation

Operate the pump for a sufficient duration each day to ensure proper water circulation and filtration. The exact run time will depend on pool size, bather load, and environmental conditions. Consult a pool professional for optimal run times.

### 4.3 Shutting Down the Pump

To shut down the pump, simply turn off the electrical power at the circuit breaker or switch dedicated to the pump.

## 5. MAINTENANCE

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### 5.1 Strainer Basket Cleaning

The strainer basket should be inspected and cleaned regularly, typically once a week or when visible debris accumulates. A clogged basket can reduce pump efficiency and lead to motor overheating.

1. Turn off the pump and disconnect power.
2. Close any necessary valves to prevent water flow from the pool.
3. Unscrew the strainer pot lid counter-clockwise.
4. Remove the basket and empty any debris. Rinse the basket thoroughly with water.
5. Inspect the basket for cracks or damage. Replace if necessary.
6. Place the clean basket back into the strainer pot.
7. Fill the strainer pot with water to assist with priming.
8. Replace the lid, ensuring the O-ring is clean and properly seated. Tighten the lid securely by hand. Do not overtighten.
9. Restore power and restart the pump.

### 5.2 Winterization

In areas subject to freezing temperatures, the pump must be properly winterized to prevent damage. Consult a pool professional for specific winterization procedures for your region.

- Drain all water from the pump and plumbing lines.
- Remove the drain plugs from the pump housing.
- Store the pump in a dry, protected area if possible, or cover it to protect from elements.

## 5.3 General Care

Keep the area around the pump clean and free of debris. Periodically check for leaks at plumbing connections. Ensure the motor ventilation openings are clear to prevent overheating.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Pump does not start	No power; tripped breaker; faulty wiring; motor issue	Check power supply, reset breaker. Consult an electrician for wiring or motor issues.
Pump runs but does not prime or has low flow	Strainer basket clogged; air leak in suction line; low water level; closed valve; impeller clogged	Clean strainer basket. Check for and seal air leaks. Ensure adequate water level. Open all valves. Inspect and clean impeller.
Pump is noisy	Cavitation (air in system); worn bearings; vibration	Check for air leaks in suction line. Ensure proper water flow. If bearings are worn, professional service is required. Ensure pump is securely mounted.
Water leaking from pump	Loose plumbing connections; worn shaft seal; cracked housing	Tighten connections. A worn shaft seal requires professional replacement. If housing is cracked, pump replacement may be necessary.

## 7. SPECIFICATIONS

**Model Number:** P6E6E-206L

**Type:** Single Speed, Full Rated

**Horsepower (HP):** 1 HP

**Voltage:** 115/230-Volt

**Full Load Amperes:** 16/8 FLA

**Maximum Suction Lift:** Up to 15 feet above water level

**Port Size:** 2-inch NPT & 2-inch Union (internal and external threads)

**Dimensions (L x W x H):** 30.5" x 13.25" x 17"

**Material:** Cast Iron, Stainless Steel

**Certifications:** NSF, UL

## 8. WARRANTY AND SUPPORT

This Pentair product is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Pentair website. For technical support, parts, or service, please contact Pentair customer service or an authorized Pentair dealer.

**Pentair Customer Service:** Refer to your product packaging or the official Pentair website for current contact information.