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## Pentair EC-348190

# Pentair SuperFlo High Performance 1HP EC Pool Pump Instruction Manual

Model: EC-348190

## 1. INTRODUCTION

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This instruction manual provides essential information for the safe installation, operation, and maintenance of your Pentair SuperFlo High Performance 1HP EC Pool Pump. Please read this manual thoroughly before attempting to install or operate the pump. Retain this manual for future reference.

## 2. SAFETY INFORMATION

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### Important Safety Instructions:

- Always disconnect power to the pump at the circuit breaker before performing any service or maintenance.
- Installation must be performed by a qualified professional in accordance with all local and national electrical and plumbing codes.
- Ensure proper grounding and bonding of the pump to prevent electrical shock hazards.
- Do not operate the pump if it is damaged or has exposed electrical wiring.
- Keep children and pets away from the pump during operation.
- This pump operates on 230 Volts. Verify your power supply matches this requirement.

## 3. PRODUCT OVERVIEW

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The Pentair SuperFlo High Performance 1HP EC Pool Pump is designed for efficient and quiet operation in in-ground pool systems. Its robust construction and advanced features ensure reliable performance.

### Key Features:

- Extremely quiet operation, minimizing noise disturbance.
- Includes unionized fittings (1-1/2 in. internal slip and 2 in. external slip) for flexible plumbing connections.

- Equipped with a Cam and Ramp™ Lid for easy access and maintenance.
- Features a heavy-duty, high service factor 56 square flange motor for durability.
- Integral volute and pot design contribute to reduced hydraulic noise.

### Product Components:

The pump consists of a motor, pump housing, strainer basket, and the Cam and Ramp™ Lid. Unionized fittings are provided for plumbing connections.



**Figure 1:** Front-side view of the Pentair SuperFlo High Performance 1HP EC Pool Pump, showcasing its beige casing, motor, and plumbing connections.

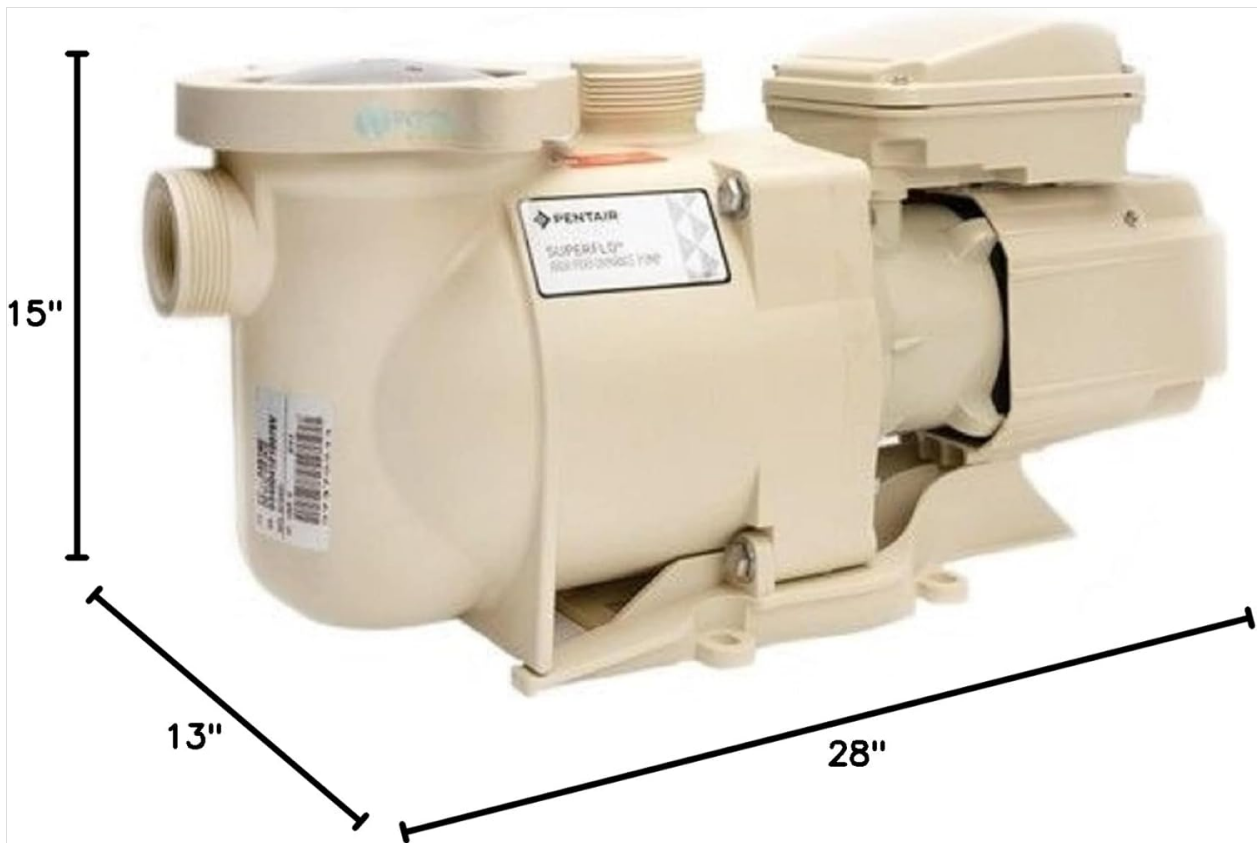


Figure 2: Side view of the Pentair SuperFlo High Performance 1HP EC Pool Pump with key dimensions indicated: approximately 28 inches in length, 13 inches in width, and 15 inches in height.

## 4. SETUP AND INSTALLATION

### 4.1. Placement

Select a location for the pump that is dry, well-ventilated, and protected from direct sunlight and excessive moisture. Ensure sufficient space around the pump for maintenance and air circulation. The pump should be installed as close to the pool as possible to minimize friction loss from plumbing.

### 4.2. Plumbing

Connect the pump to your pool's plumbing system using the provided unionized fittings. These fittings accommodate both 1-1/2 inch internal slip and 2 inch external slip connections. Ensure all connections are watertight using appropriate sealants and pipe dope. Avoid overtightening connections.

### 4.3. Electrical Wiring

**WARNING: Risk of Electrical Shock.** All electrical wiring must be performed by a licensed electrician and comply with local and national electrical codes.

- The pump requires a 230 Volt, single-phase power supply.
- Ensure the circuit breaker is OFF before making any electrical connections.
- Connect the pump to a dedicated circuit protected by a Ground Fault Circuit Interrupter (GFCI).
- Properly ground and bond the pump motor to the pool's bonding grid.
- Refer to the wiring diagram located inside the motor's terminal box for specific connection details.

## 5. OPERATION

## 5.1. Priming the Pump

Before starting the pump for the first time, or after draining the system, the pump must be primed to ensure it is filled with water.

1. Ensure all valves are open to allow water flow from the pool to the pump.
2. Remove the Cam and Ramp™ Lid and fill the strainer basket housing with water.
3. Replace the lid, ensuring it is securely tightened.
4. Turn on the power to the pump. The pump should begin to draw water.
5. If the pump does not prime within five minutes, turn off the power, re-fill the strainer housing, and repeat the process.

## 5.2. Starting and Stopping

Once primed, the pump can be started and stopped using the dedicated circuit breaker or a pool automation system. Avoid rapid cycling of the pump (turning it on and off frequently) as this can reduce motor life.

# 6. MAINTENANCE

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## 6.1. Routine Checks

- **Strainer Basket:** Inspect and clean the strainer basket regularly (at least once a week, or more frequently if debris is high). Turn off the pump, remove the Cam and Ramp™ Lid, empty the basket, and rinse it clean.
- **Pump Housing:** Check for any leaks around the pump or plumbing connections. Address any leaks promptly.
- **Motor Ventilation:** Ensure the motor's ventilation openings are clear of obstructions to prevent overheating.

## 6.2. Winterization

In areas subject to freezing temperatures, the pump must be properly winterized to prevent damage.

1. Turn off all power to the pump at the circuit breaker.
2. Drain all water from the pump by removing the drain plugs.
3. Store the drain plugs in the strainer basket.
4. If possible, remove the pump and store it in a dry, heated area. If not, cover the pump with a waterproof tarp.

# 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your pool pump.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped breaker; faulty wiring	Check power supply, reset breaker, inspect wiring (by qualified electrician).
Pump runs but does not prime	Low water level; air leak in suction line; clogged strainer basket	Ensure adequate water level, check for air leaks, clean strainer basket, re-prime pump.
Reduced water flow	Clogged strainer basket; dirty filter; restricted plumbing	Clean strainer basket, backwash/clean filter, check plumbing for obstructions.
Excessive noise	Air leak; cavitation; worn bearings; debris in impeller	Check for air leaks, ensure proper priming, inspect impeller for debris. If bearings are worn, professional service is required.
Motor overheats and shuts off	Insufficient ventilation; low voltage; motor overload	Ensure clear ventilation, verify voltage, check for obstructions in pump. Allow motor to cool before restarting.

## 8. SPECIFICATIONS

Specification	Detail
Brand	Pentair
Model Number	EC-348190
Horsepower	1 HP
Voltage	230 Volts
Power Source	Corded Electric
Maximum Flow Rate	435.6 Gallons Per Minute
Product Dimensions (L x W x H)	22.55" x 10.07" x 11.18"
Item Weight	53 Pounds
Material	Stainless Steel
Color	Beige
Specific Uses	In-Ground Pool Systems
UPC	788379500801

## 9. WARRANTY INFORMATION

This Pentair SuperFlo High Performance 1HP EC Pool Pump comes with a **1-Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use and service. For full warranty terms and conditions, please refer to the documentation included with your product or contact

Pentair customer support.

## 10. SUPPORT AND CONTACT INFORMATION

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For technical assistance, replacement parts, or warranty claims, please contact Pentair customer support. You can find additional resources and contact details on the official Pentair website or through your authorized dealer.

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

**Online Resources:** Visit the Pentair Brand Store for more product information and support.