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## Hayward SPX1616B

# Hayward SPX1616B Diffuser Replacement for SuperPump Pumps

Instruction Manual

## 1. INTRODUCTION

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This manual provides instructions for the installation, operation, and maintenance of the Hayward SPX1616B Diffuser. This component is a direct replacement part for Hayward SuperPump SP2600X series models, ensuring proper function and longevity of your pool pump system.

**Compatibility:** This diffuser is specifically designed for use with Hayward SuperPump SP2600X series models, including SP2600X5, SP2605X7, SP2607X10, SP2607EE, SP2610X15, SP2615X20, and SP2621X25.

## 2. SAFETY INFORMATION

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**WARNING: Always disconnect power to the pump at the circuit breaker before attempting any service or maintenance. Failure to do so can result in serious injury or death.**

- Ensure the pump is completely depressurized and drained before opening.
- Wear appropriate personal protective equipment, such as safety glasses and gloves.
- If you are unsure about any step, consult a qualified pool service professional.
- Keep children and pets away from the work area.

## 3. PACKAGE CONTENTS

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Verify that all components are present and undamaged upon opening the package:

- 1 x Hayward SPX1616B Diffuser

## 4. SETUP AND INSTALLATION

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Follow these steps carefully to replace the diffuser in your Hayward SuperPump.

### 4.1. Preparation

1. Turn off all power to the pool pump at the main circuit breaker.
2. Close any necessary valves to prevent water flow to and from the pump.

3. Open the air relief valve on your filter to release any pressure in the system.
4. Drain the pump by removing the drain plugs.

#### **4.2. Removing the Old Diffuser**

1. Remove the bolts or clamps securing the pump housing or volute.
2. Carefully separate the motor assembly from the pump housing.
3. Locate the old diffuser, which is typically situated between the impeller and the pump housing.
4. Gently remove the old diffuser. Inspect the area for any debris or damage and clean as necessary.

#### **4.3. Installing the New Diffuser**

1. Position the new Hayward SPX1616B Diffuser into the pump housing, ensuring it seats correctly. The diffuser should align with the impeller and the pump's inlet.
2. Ensure any gaskets or O-rings are properly seated and in good condition. Replace if necessary.
3. Carefully reassemble the pump housing and motor assembly, ensuring all components are aligned.
4. Secure the pump housing with the original bolts or clamps, tightening them evenly to prevent leaks.



Image 1: Hayward SPX1616B Diffuser. This image shows the replacement diffuser, a critical component for maintaining efficient water flow within the SuperPump system.

#### **4.4. Post-Installation**

1. Open all closed valves to allow water flow to the pump.

2. Prime the pump by filling the pump basket with water until it overflows. Secure the pump lid.
3. Turn on the power to the pump at the circuit breaker.
4. Check for any leaks around the pump housing. If leaks are present, turn off power, depressurize, and re-tighten the housing bolts or inspect gaskets.

## 5. OPERATING INSTRUCTIONS

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The diffuser is a static component within the pump that directs water flow from the impeller to the pump's outlet. Once correctly installed, it operates passively as part of the pump's normal function. No specific operational adjustments are required for the diffuser itself.

Refer to your Hayward SuperPump owner's manual for detailed operating instructions for the complete pump system.

## 6. MAINTENANCE

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Regular inspection and maintenance of your pump system, including the diffuser, will ensure optimal performance and extend the life of your equipment.

- **Visual Inspection:** Periodically inspect the diffuser (during routine pump maintenance or when opening the pump) for cracks, wear, or debris accumulation.
- **Cleaning:** If debris is found on the diffuser, carefully remove it. Ensure water passages are clear.
- **Gasket/O-ring Check:** Always inspect the pump housing gasket/O-ring when the pump is opened. Replace if it shows signs of wear, cracking, or flattening to prevent leaks.

## 7. TROUBLESHOOTING

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If you experience issues after replacing the diffuser, consider the following common problems:

Problem	Possible Cause	Solution
Pump not priming or low flow	Improperly seated diffuser; air leak in pump housing; clogged impeller.	Re-check diffuser seating; inspect and replace pump housing gasket/O-ring; clean impeller.
Water leak from pump housing	Improperly tightened housing bolts; damaged gasket/O-ring.	Ensure housing bolts are tightened evenly; inspect and replace gasket/O-ring.
Unusual noise from pump	Debris in pump; impeller rubbing diffuser.	Turn off power, open pump, remove debris; ensure diffuser is correctly seated and not interfering with impeller rotation.

## 8. SPECIFICATIONS

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- **Model Number:** SPX1616B
- **Product Type:** Diffuser Replacement
- **Compatibility:** Hayward SuperPump SP2600X Series (SP2600X5, SP2605X7, SP2607X10, SP2607EE, SP2610X15, SP2615X20, SP2621X25)
- **Manufacturer:** Hayward
- **Approximate Weight:** 8 ounces

## 9. WARRANTY INFORMATION

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Specific warranty details for the Hayward SPX1616B Diffuser are typically provided with the product packaging or can be found on the official Hayward website. Please retain your proof of purchase for any warranty claims.

Generally, Hayward offers a limited warranty against defects in materials and workmanship. The duration and terms of the warranty may vary. For the most accurate and up-to-date warranty information, please visit [www.hayward.com](http://www.hayward.com) or contact Hayward customer support directly.

## 10. CUSTOMER SUPPORT

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For further assistance, technical support, or to inquire about other Hayward products, please contact Hayward customer service:

- **Website:** [www.hayward.com](http://www.hayward.com)
- **Phone:** Refer to the Hayward website for regional contact numbers.
- **Online Resources:** The Hayward website offers a comprehensive library of product manuals, FAQs, and troubleshooting guides.