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› Hayward Max-Flo XL Impeller SPX2300CVS User Manual

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Hayward Max-Flo XL Impeller SPX2300CVS User Manual

Model: SPX2300CVS

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Hayward Max-Flo XL Impeller, model SPX2300CVS. This impeller is a critical component designed for Hayward Max-Flo XL series pool pumps, ensuring efficient water circulation. Please read this manual thoroughly before attempting any installation or maintenance procedures.

2. IMPORTANT SAFETY INFORMATION

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

- Ensure all electrical connections are made by a qualified electrician and comply with local codes.
- Do not operate the pump if the impeller is damaged or if the pump housing is open.
- Keep hands, hair, and loose clothing away from the impeller and other moving parts.
- This impeller is designed for specific Hayward Max-Flo XL pump models. Using it with incompatible pumps may cause damage or malfunction.

3. PRODUCT OVERVIEW

The Hayward Max-Flo XL Impeller (SPX2300CVS) is a precision-engineered component responsible for creating the centrifugal force that moves water through your pool pump system. It is constructed from durable materials to withstand continuous operation in pool environments.

Product Dimensions and Weight:

- **Product Dimensions:** Approximately 4.3 x 4.3 x 2.7 inches

- **Item Weight:** Approximately 4 ounces



Figure 1: Angled view of the Hayward Max-Flo XL Impeller SPX2300CVS, highlighting its design and vanes.



Figure 2: Front view of the impeller, displaying the central intake and the part number SP2715CV.



Figure 3: Side profile of the impeller, illustrating its depth and shape.

4. INSTALLATION

This section outlines the general steps for replacing an impeller. Refer to your specific Hayward Max-Flo XL pump manual for detailed disassembly and reassembly instructions.

1. **Disconnect Power:** Turn off all power to the pool pump at the main circuit breaker. Verify power is off using a voltage tester.
2. **Drain Pump:** Close all necessary valves to prevent water flow to and from the pump. Open the drain

plug on the pump housing to drain any remaining water.

3. **Disassemble Pump:** Carefully remove the pump motor from the wet end (volute). This typically involves removing bolts or clamps.
4. **Access Impeller:** Remove the diffuser (if present) and then unscrew the old impeller from the motor shaft. You may need a shaft wrench to hold the motor shaft steady while unscrewing the impeller. Note the direction of rotation for removal (usually counter-clockwise).
5. **Inspect Components:** Before installing the new impeller, inspect the motor shaft, seal plate, and diffuser for any damage or wear. Replace any worn components as necessary.
6. **Install New Impeller:** Thread the new Hayward SPX2300CVS impeller onto the motor shaft, turning clockwise until it is hand-tight. Do not overtighten.
7. **Reassemble Pump:** Reinstall the diffuser, then reattach the motor to the wet end, ensuring all gaskets and O-rings are properly seated and lubricated. Tighten all bolts or clamps securely.
8. **Prime Pump:** Open all valves, fill the pump basket with water, and replace the lid.
9. **Restore Power:** Turn on power to the pump at the circuit breaker.
10. **Test Operation:** Start the pump and check for proper operation and any leaks. Ensure the pump primes correctly and water is flowing.

5. OPERATION

Once installed, the impeller operates continuously as part of your pool pump system. Its primary function is to draw water into the pump and push it out at a higher velocity, facilitating filtration and circulation. Proper operation is indicated by consistent water flow and pressure from your pump.

6. MAINTENANCE

Regular inspection and maintenance of your impeller and pump system can extend its lifespan and ensure efficient operation.

- **Visual Inspection:** Periodically inspect the impeller for cracks, chips, or debris lodged between the vanes.
- **Cleaning:** If debris is found, disconnect power and carefully remove the impeller for cleaning. Use a soft brush to remove any obstructions.
- **Shaft Seal:** While the impeller is accessible, inspect the pump shaft seal for any signs of leakage or wear. A leaking shaft seal can lead to motor damage.
- **Diffuser:** Ensure the diffuser is clean and free of obstructions, as this can impact pump performance.

7. TROUBLESHOOTING

If your pump is experiencing issues, the impeller may be a contributing factor. Always ensure power is disconnected before inspecting the pump.

Problem	Possible Cause	Solution
Pump not priming or low flow	Clogged or damaged impeller	Inspect and clean impeller. Replace if damaged.
Unusual noise from pump	Debris in impeller or worn bearings	Clean impeller. If noise persists, motor bearings may be worn (requires professional service).
Water leaking from pump shaft	Worn shaft seal	Replace the pump shaft seal.

8. SPECIFICATIONS

- **Model Number:** SPX2300CVS
- **Compatible Pump Series:** Hayward Max-Flo XL
- **Material:** Durable composite
- **Manufacturer:** Hayward Pool Products
- **Product Dimensions:** 4.3 x 4.3 x 2.7 inches
- **Item Weight:** 4 ounces

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Hayward Max-Flo XL Impeller SPX2300CVS, please refer to the documentation provided with your original pump or contact Hayward customer support directly. Hayward provides technical assistance and support for their products.

Hayward Customer Support: Please visit the official Hayward website or consult your local Hayward dealer for contact information and support resources.