Hayward SP3202VSP

Hayward SP3202VSP TriStar VS Variable-Speed Pool Pump

Instruction Manual

Model: SP3202VSP | Brand: Hayward

1. Introduction

The Hayward TriStar VS variable-speed pump, model SP3202VSP, is engineered for pool filtration systems. This pump is designed to provide efficient water circulation and filtration for swimming pools. Its variable-speed motor allows for adjustable flow rates, contributing to optimized energy consumption and quiet operation.

This manual provides essential information for the safe installation, operation, and maintenance of your Hayward SP3202VSP pump. Please read all instructions thoroughly before proceeding with installation or use.

2. Key Features

- **Variable Speed Operation:** Allows for precise control over pump speed, ranging from 600 to 3450 RPM, to match specific pool requirements.
- **Energy Efficiency:** Features a permanent magnet, totally enclosed fan cooled (TEFC) motor designed for reduced energy consumption compared to single-speed pumps.
- **Flexible Installation:** Compatible with stand-alone operation, Hayward automation systems (including Omni Logic), or competitive control systems via relay control.
- **User Interface:** Equipped with a fully programmable, digital control interface that can rotate to four positions or be wall-mounted for accessibility.
- **Easy Retrofitting:** Designed with 2-inch x 2.5-inch CPVC union connections and two pump-base options for simplified installation and servicing.

3. Safety Information

WARNING: This product must be installed and serviced by a qualified pool professional in accordance with all applicable local and national codes and ordinances. Improper installation or operation can result in death, serious injury, or property damage.

- Always disconnect power to the pump before performing any service or maintenance.
- Ensure all electrical connections are made by a licensed electrician and comply with local electrical codes.
- Do not operate the pump if it is damaged or malfunctioning.
- Keep children away from the pump and all pool equipment.
- Maintain proper water flow to prevent overheating and damage to the pump.

4. Package Contents

Verify that all components are present and undamaged upon unpacking. If any parts are missing or damaged, contact your supplier immediately.

- Hayward TriStar VS Variable-Speed Pool Pump (SP3202VSP)
- Union Connections (2 inch x 2.5 inch CPVC)
- Instruction Manual (this document)
- Warranty Card (if applicable)

5. Setup and Installation

Installation of the Hayward SP3202VSP pump should be performed by a qualified pool professional. Adherence to all local and national plumbing and electrical codes is mandatory.

5.1. Pump Placement

Position the pump as close to the pool as possible to minimize friction loss from plumbing. Ensure the location is well-ventilated, protected from direct sunlight and excessive moisture, and allows for adequate access for servicing. The pump must be installed on a firm, level base.

Image 1: Hayward TriStar VS Variable-Speed Pool Pump. This image shows the pump from a slightly elevated angle, highlighting the main body, strainer basket lid, and the digital control panel on top of the motor.

5.2. Plumbing Connections

Connect the pump to the pool's plumbing system using the provided 2-inch x 2.5-inch CPVC union connections. Use appropriate PVC cement and primer for secure, leak-free joints. Ensure all connections are tight but do not overtighten. Minimize bends and fittings to optimize flow.

5.3. Electrical Wiring

The pump requires a 230 Volt AC power supply. All electrical wiring must be performed by a licensed electrician and conform to local and national electrical codes. Ensure the circuit is properly grounded and protected by a Ground Fault Circuit Interrupter (GFCI). Refer to the wiring diagram located inside the pump's terminal box cover for specific connection details.

Image 2: Side view of the Hayward TriStar VS Variable-Speed Pool Pump. This image provides a clearer view of the pump's overall structure, including the motor housing and the inlet/outlet ports.

5.4. Priming the Pump

Before initial startup, the pump must be primed. Remove the strainer basket lid and fill the basket with

water until it reaches the suction pipe level. Replace the lid securely. Open all suction and return valves. Turn on the pump. If the pump does not prime within five minutes, turn it off, recheck water level in the basket, and inspect for air leaks in the suction line.

6. Operating Instructions

The TriStar VS pump features a digital control interface for programming and operation. Familiarize yourself with the display and buttons before use.

6.1. Control Panel Overview

The digital control panel allows you to set desired speeds, schedule operating times, and monitor pump status. The interface typically includes buttons for "Menu," "Up/Down," "Enter," and "Start/Stop."

6.2. Setting Speeds

The pump can operate at various speeds. Lower speeds are suitable for filtration and maintaining water quality, while higher speeds are used for backwashing, vacuuming, or operating water features. Refer to the pump's on-screen menu for specific speed adjustment procedures. The speed range is 600 - 3450 RPM.

6.3. Programming Schedules

The pump can be programmed to run at different speeds for specific durations throughout the day. This allows for energy optimization by running at lower speeds during off-peak hours and higher speeds when needed. Consult the detailed programming section in the full manufacturer's manual for step-by-step instructions on setting schedules and timers.

6.4. Stand-Alone vs. Automation System Operation

The pump can function independently using its integrated control panel or integrate with a Hayward automation system (e.g., Omni Logic) or other compatible third-party control systems. When integrated with an automation system, the pump's operation will be managed by the external controller.

7. Maintenance

Regular maintenance ensures optimal performance and extends the lifespan of your pump.

7.1. Strainer Basket Cleaning

The pump's strainer basket should be inspected and cleaned regularly, typically weekly or as needed. Turn off the pump and close all valves before removing the lid. Remove debris from the basket, rinse it, and replace it securely. Ensure the O-ring is clean and properly seated before tightening the lid.

7.2. Motor Ventilation

Ensure the motor's fan and vents are free from obstructions to allow for proper cooling. Overheating can damage the motor.

7.3. Winterization

In regions subject to freezing temperatures, the pump must be properly winterized to prevent damage. Drain all water from the pump and plumbing lines. Store the pump in a dry, protected area if possible, or

ensure it is completely drained and covered if left outdoors. Consult a pool professional for proper winterization procedures specific to your climate.

8. Troubleshooting

This section addresses common issues you might encounter. For more complex problems, contact a qualified service technician.

Problem	Possible Cause	Solution
Pump does not start	No power; tripped breaker/GFCI; faulty wiring; motor issue.	Check power supply, reset breaker/GFCI. Verify wiring connections. If problem persists, consult an electrician or service technician.
Low water flow	Clogged strainer basket; closed valves; air leak in suction line; dirty filter; low water level in pool.	Clean strainer basket. Ensure all valves are open. Check for air leaks. Clean or backwash filter. Adjust pool water level.
Pump not priming	Low water in strainer basket; air leak in suction line; closed suction valve.	Fill strainer basket with water. Inspect and seal any air leaks. Ensure suction valve is fully open.
Excessive noise	Cavitation (air in pump); worn bearings; motor obstruction.	Check for air leaks in suction line. Ensure adequate water supply. If noise persists, professional inspection may be required.

9. Specifications

Attribute	Detail
Model Number	SP3202VSP
Brand	Hayward
Horsepower (HP)	1.85 HP
Voltage	230 Volts
Power Source	AC/DC
Speed Range	600 - 3450 RPM
Product Dimensions	32"L x 13"W x 16"H
Item Weight	48.4 Pounds
Material	Acetal/Stainless Steel
UPC	610377312776

10. Warranty Information

Hayward provides a limited warranty for the SP3202VSP TriStar VS Variable-Speed Pool Pump. Specific warranty terms, conditions, and duration are typically included with the product packaging or available on the official Hayward website. Please retain your proof of purchase for warranty claims. Note that self-installation may affect warranty coverage; consult Hayward's official warranty policy for details.

11. Customer Support

For technical assistance, replacement parts, or further information regarding your Hayward SP3202VSP pump, please contact Hayward customer support or visit their official website.
Hayward Official Website: www.hayward-pool.com
When contacting support, please have your pump's model number (SP3202VSP) and serial number readily available.