

CIPU CSPPV546

CIPU Variable Speed Pool Pump 3HP (Model CSPPV546) Instruction Manual

Model: CSPPV546 | Brand: CIPU

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1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation of your CIPU 3HP Variable Speed Pool Pump, Model CSPPV546. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product. Retain this manual for future reference.



Image 1.1: CIPU 3HP Variable Speed Pool Pump, Model CSPPV546.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. This pump must be installed by a qualified electrician in accordance with all national and local electrical codes. Always disconnect power before servicing.

- Ensure the power supply matches the pump's voltage requirements (230 VAC).
- Do not operate the pump if it is damaged or has exposed wiring.
- Keep children and unauthorized personnel away from the pump during operation.
- Proper grounding is essential to prevent electrical shock.
- Do not run the pump dry. Ensure the pump is primed with water before starting.
- Maintain proper ventilation around the pump to prevent overheating.

3. PRODUCT OVERVIEW

3.1 Key Features

- **3HP Powerful PMS Motor:** Efficient permanent magnet synchronous motor with pure copper wiring for superior performance and quiet operation.
- **Intelligent Variable Speed Control:** Allows for precise speed adjustments (1000-3450 RPM) to optimize filtration and energy consumption.
- **User-Friendly Control Panel:** Easy-to-use interface for setting schedules and monitoring pump status.
- **Large Prefilter Basket:** Detachable basket for easy cleaning, preventing debris from reaching the main filter system.
- **Durable Construction:** Reinforced thermoplastic body with heat dissipation painting for weather resistance and extended lifespan.
- **App Control:** Remote control and monitoring via a mobile application for convenience.

3.2 Components

The CIPU Variable Speed Pool Pump includes the main pump unit and two 2-inch hose adapters for installation.



Image 3.1: Main pump unit with 2-inch hose adapters.

3.3 Control Panel Overview

The intelligent control panel allows for easy programming and monitoring of the pump's operation. It features buttons for speed selection, time adjustment, and quick clean functions.



The image shows the main pump unit with its control panel. The panel features a digital display showing '88:88', buttons for speed selection (1, 2, 3, 4), time adjustment (+, -), and a 'Quick Clean' button. A QR code is visible on the left side of the panel. To the right of the pump unit, there are four images illustrating the pump's use in different seasons: a summer pool scene, a winter pool scene, a fall scene with trees, and a winter scene with snow.

Ideal for Inground Pools Water All-Weather Filtration!

Hassle-free VS pump with intelligent control energy saving

Upgrade intelligent panel operation

The program	Speed 1	Speed 2	Speed 3	Speed 4
Start up time	8:00AM (Adjustable)	10:00AM (Adjustable)	8:00PM (Adjustable)	10:00PM (Adjustable)
Time of operation	2H (Adjustable)	10H (Adjustable)	2H (Adjustable)	10H (Adjustable)
Default speed	2850 RPM (Adjustable)	1730 RPM (Adjustable)	2300 RPM (Adjustable)	1150 RPM (Adjustable)

(The default cycle is 22 hours a day)

Image 3.2: Detailed view of the control panel with display and buttons.

4. INSTALLATION

Proper installation is crucial for the pump's performance and safety. It is recommended that installation be performed by a qualified professional.

4.1 Site Selection

- Install the pump as close to the pool as possible to minimize friction loss.
- Ensure the location is well-ventilated and protected from direct sunlight and extreme weather.
- Provide adequate space around the pump for maintenance and airflow.
- The pump must be installed on a solid, level foundation.

4.2 Plumbing Connections

1. Connect the pump to your existing pool plumbing using the provided 2-inch adapters. Ensure all connections are watertight.
2. Use appropriate PVC cement and primer for secure and leak-free joints.
3. Ensure the suction line is as short and straight as possible to maximize efficiency.



Image 4.1: Pump connected to pool plumbing using 2-inch adapters.

4.3 Electrical Wiring

WARNING: All electrical wiring must comply with local and national electrical codes. Disconnect power at the circuit breaker before performing any wiring.

1. Use a screwdriver to loosen the screws on the control panel and gently remove the panel cover.
2. Locate the L1, L2, and Grounding junctions inside the control box.
3. Unscrew the terminals for wiring connection.
4. Connect the Live wire (White) to L1, Neutral wire (Black) to L2, and Grounding wire (Green) to the Ground terminal.
5. Securely tighten all wires and replace the panel cover.

How to install your pump

(Included 2pcs 2" Adapters)

Wiring Guide

Use a screwdriver to loosen the screws on the panel and gently remove the panel

We can see the junctions of L1, L2 and Grounding, unscrew them for wiring connection.

Screw up and fix wires accordingly:
L1 to Live Wire (White)
L2 to Neutral Wire (Black)
G to Grounding Wire (Green)

Then screw up tightly

Image 4.2: Step-by-step wiring guide for the control panel.

The pump is designed for 230 VAC input voltage. Ensure your power supply matches this requirement.

5. OPERATING INSTRUCTIONS

5.1 Initial Start-up and Priming

1. Ensure all valves are open and the pump basket is full of water.
2. Turn on the power to the pump. The pump will automatically begin its self-priming cycle.
3. Monitor the transparent lid of the prefilter basket to ensure water is flowing and air is being expelled.
4. If the pump does not prime within 5 minutes, turn it off, check for leaks, and re-prime.

5.2 Setting the Clock

To ensure accurate scheduling, set the pump's internal clock to your local time.

1. Press the "Setting/Enter" button to enter the time setting interface.
2. Use the "+" and "-" buttons to adjust the hour and minute.
3. Use the "<" and ">" buttons to move the cursor between hour and minute.
4. Press "Setting/Enter" again to save the settings.

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Video 5.1: Demonstrates setting the clock and programming the pump's operation modes.

5.3 Default Operation Mode

The pump comes with four pre-programmed speed settings designed for daily filtration and energy savings. These settings automatically cycle for 22 hours daily.

- **Speed 1 (2850 RPM):** Start 8:00 AM, Duration 2 hours
- **Speed 2 (1730 RPM):** Start 10:00 AM, Duration 10 hours
- **Speed 3 (2300 RPM):** Start 8:00 PM, Duration 2 hours
- **Speed 4 (1150 RPM):** Start 10:00 PM, Duration 8 hours



Image 5.1: Illustration of the default 4-speed daily cycle for optimal filtration and energy efficiency.

5.4 Manual Speed Control

You can manually adjust the pump speed for specific tasks or preferences.

1. Press the desired speed button (1, 2, 3, or 4) once. The speed indicator will light up, showing the current RPM.
2. Press the same speed button again. The display will blink.
3. Use the "Up" and "Down" arrows to change the RPM value.
4. Press "Setting/Enter" to confirm the new speed.

5.5 Quick Clean Mode

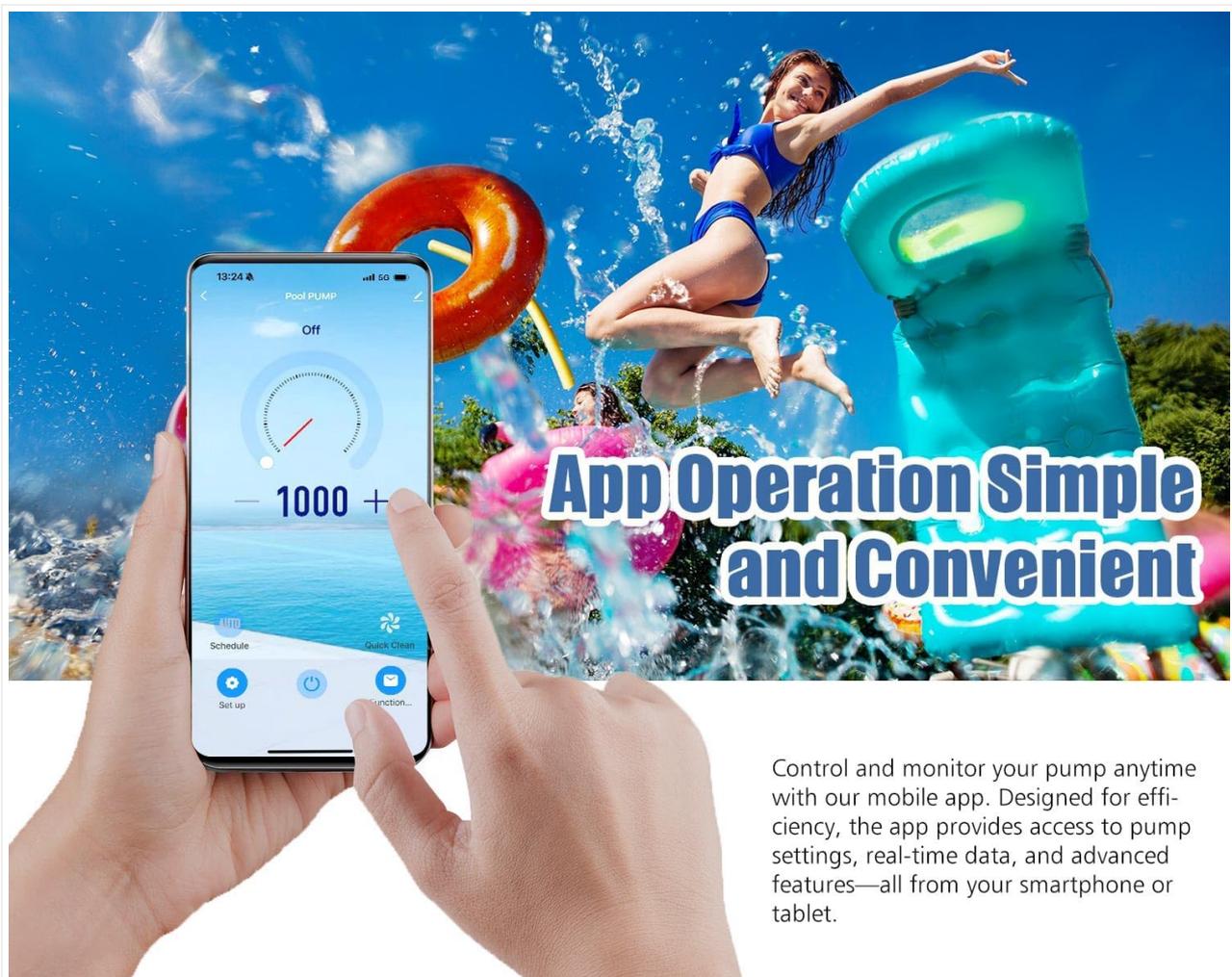
The "Quick Clean" feature allows for temporary operation at higher or lower speeds (1700 to 3450 RPM) for intensive cleaning or specific tasks. After the Quick Clean cycle, the pump will return to its programmed schedule.

1. Press the "Quick Clean" button.
2. Use the "Up" and "Down" arrows to select the desired RPM.
3. The pump will run at the selected speed for a preset duration (usually 1 hour, check manual for details).
4. To stop Quick Clean mode early, press "Start/Stop".

5.6 App Control

For convenient remote control and advanced scheduling, download the official CIPU app. The app allows you to adjust speed, start/stop the pump, and set custom schedules from your smartphone.

- Download the app from your device's app store or scan the QR code on the control panel.
- Ensure your pump is powered on. The app should automatically detect the pump.
- Follow the in-app instructions to connect to your Wi-Fi network and add the pump.
- Once connected, you can adjust speeds, set schedules, and monitor pump status.



Control and monitor your pump anytime with our mobile app. Designed for efficiency, the app provides access to pump settings, real-time data, and advanced features—all from your smartphone or tablet.

Image 5.2: App interface for controlling the CIPU pool pump.

For app download and detailed instructions, visit: <https://smartapp.smart321.com/smartlife>

6. MAINTENANCE

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

6.1 Cleaning the Prefilter Basket

The prefilter basket collects large debris and should be cleaned regularly, especially if you notice reduced water flow.

1. Turn off the pump and disconnect power at the circuit breaker.
2. Close any necessary valves to prevent water flow from the pool.
3. Unscrew the transparent lid of the prefilter basket.
4. Remove the basket and empty any collected debris.
5. Rinse the basket thoroughly with water.
6. Inspect the O-ring on the lid for damage and ensure it is clean and properly seated.
7. Replace the basket and securely fasten the lid.
8. Open valves and restore power to the pump.

Solid basket for prefiltration

1/8in object thru.

Prevent leaves, green alga and debris through, can well protect filter tank from block, make sure the whole system can work smoothly to keep pool water clean&fresh all the time.

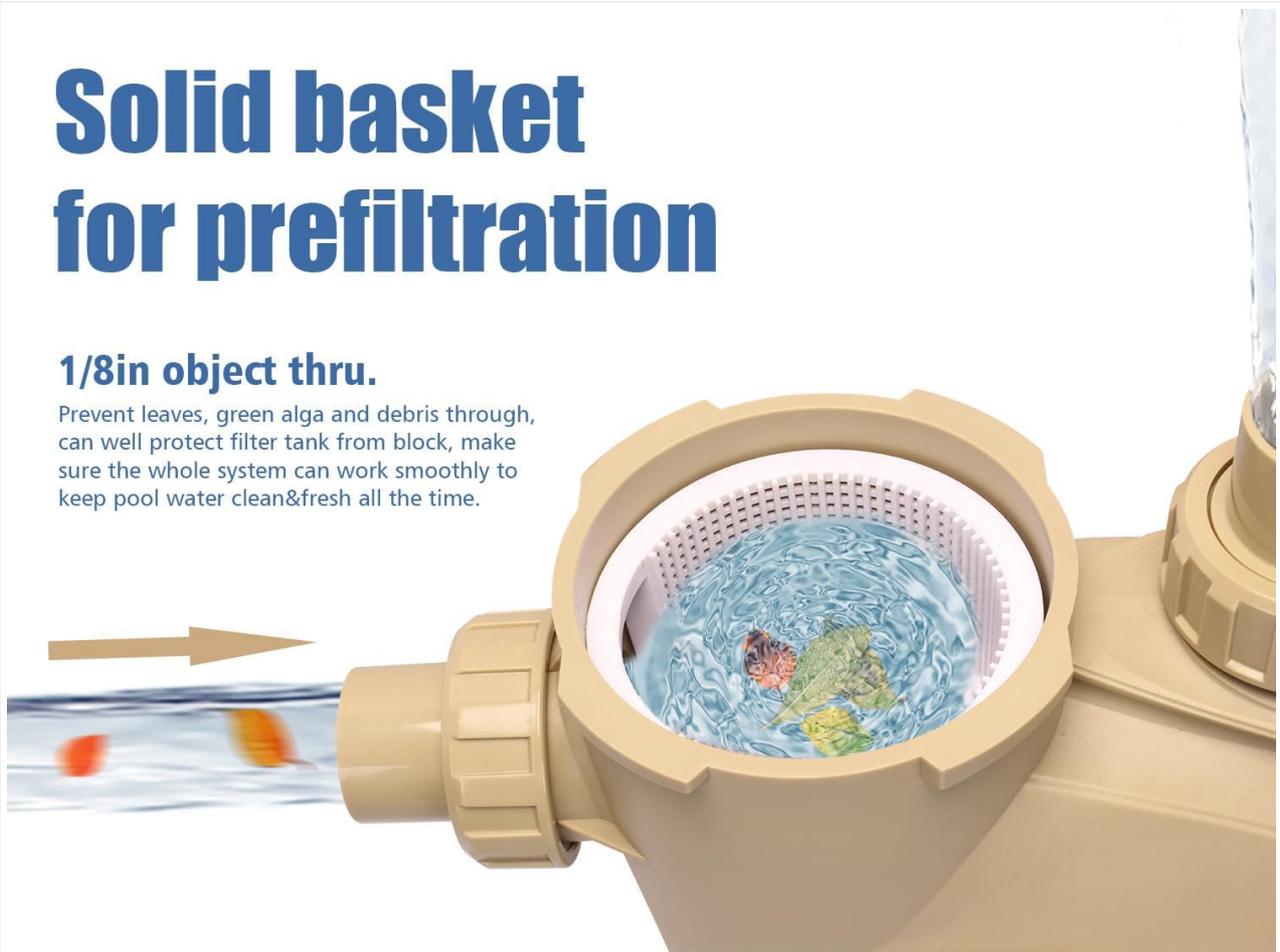


Image 6.1: Detachable prefilter basket for easy debris removal.

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Video 6.1: Demonstrates the process of cleaning the prefilter basket.

6.2 Winterization

In areas subject to freezing temperatures, proper winterization is essential to prevent damage to the pump.

- Drain all water from the pump and plumbing lines.
- Remove the drain plugs and store them in the pump basket.
- Store the pump in a dry, protected area if possible.
- Consult a pool professional for comprehensive winterization procedures.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your CIPU pool pump. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Pump does not start	No power, tripped breaker, motor overload, faulty wiring.	Check power supply, reset breaker, inspect wiring (qualified electrician).
Low water flow	Clogged prefilter basket, clogged skimmer, air leak in suction line, low water level.	Clean basket/skimmer, check for air leaks, ensure adequate pool water level.
Pump not priming	Air leak in suction line, low water level, clogged impeller.	Check for air leaks, fill pump basket, inspect impeller for debris.
Excessive noise/vibration	Air in system, cavitation, worn bearings, loose mounting.	Bleed air from system, ensure proper water flow, check mounting bolts, contact support for worn parts.
Water leaking from pump	Loose connections, damaged O-rings/seals, cracked housing.	Tighten connections, replace O-rings/seals, contact support for housing damage.

8. SPECIFICATIONS

Feature	Detail
Brand	CIPU
Model Number	CSPPV546
Horsepower	3 HP
Input Voltage	230 VAC
Input Current	0.5-10 Amps
Max Input Watts	2500 W
Speed Range	1000-3450 RPM
Max Flow Rate	9720 GPH (162 Gallons Per Minute)
Max Water Temperature	104 °F (40 °C)
Product Dimensions	25.2"L x 8.9"W x 13.9"H
Item Weight	44 Pounds
Material	Reinforced Thermoplastic
Certifications	ETL Certified

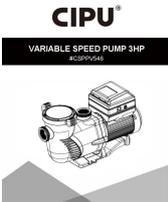
9. WARRANTY AND SUPPORT

CIPU products are manufactured to high-quality standards and are backed by a manufacturer's warranty. For specific warranty details, please refer to the warranty card included with your product or contact CIPU customer support.

Customer Support: For any questions, technical assistance, or warranty claims, please contact us through our storefront or send an email to our support team. We aim to respond within 24 hours.

- **Online Storefront:** [CIPU Pool Products Store](#)
- **Email Support:** (Refer to product packaging or warranty card for specific email address)

We are committed to providing safe and comfortable products for your family's health and enjoyment.

 <p>CIPU® VARIABLE SPEED PUMP 3HP ESP-044</p>	<p>CIPU CSPPV546 Variable Speed Pump 3HP User Manual</p> <p>Comprehensive user manual for the CIPU CSPPV546 Variable Speed Pump 3HP, covering installation, operation, maintenance, and troubleshooting. Learn about pump features, drive features, keypad operation, safety instructions, and technical specifications.</p>
 <p>JABLONTRON</p>	<p>JA-151E Bezdrátová čtečka čipů: Instalace a nastavení</p> <p>Podrobný průvodce instalací a nastavením bezdrátové čtečky čipů JABLONTRON JA-151E pro ovládání sekci. Obsahuje technické parametry, optické a akustické indikace a postupy výměny baterií.</p>
 <p>ENERGY STAR Certified Pool Pumps List - NHSaves</p>	<p>ENERGY STAR Certified Pool Pumps List - NHSaves</p> <p>NHSaves provides a comprehensive list of ENERGY STAR certified pool pumps, detailing brand names, model numbers, product types, and motor designs to help consumers choose energy-efficient options.</p>
 <p>ENERGY STAR Certified Pool Pumps - NHSaves</p>	<p>ENERGY STAR Certified Pool Pumps - NHSaves</p> <p>This document lists ENERGY STAR certified pool pumps, updated on August 1, 2025, featuring various brands, model numbers, and product types for energy-efficient pool pump selection.</p>