

Hayward HPOW230BD

Hayward H-POWER Monophase Bluetooth Pool Pump Electrical Control Box User Manual

Model: HPOW230BD

1. INTRODUCTION AND PRODUCT OVERVIEW

The Hayward H-POWER HPOW230BD is a monophase electrical control box designed for managing and protecting pool pumps. This unit integrates essential components for pool system control, including a circuit breaker, contactor, and timers. It offers advanced features such as Bluetooth connectivity for smartphone control and automatic calibration of pump consumption.

Key features include:

- Protection against overloads and short circuits for the pool pump.
- Bluetooth control of filtration and lighting (model dependent) via the free 'HPOWER' smartphone application.
- Integrated circuit breaker, contactor, and timers within a single module.
- Two dedicated timers for filtration and one timer for lighting (model dependent).
- Automatic calibration of filtration pump consumption.
- Integrated overload protection.
- LED screen displaying current time, adjustments, and alarms.
- Monophase design, compatible with differential and transformer options (50W, 100W, or 300W).
- Suitable for monophase pumps up to 3 HP or three-phase pumps up to 5 HP.

The control box is black in color.



Image showing the Hayward H-POWER HPOW230BD electrical control box, a black unit with an LED display and control buttons.

2. SAFETY INFORMATION

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in serious injury or property damage.

- **Electrical Hazard:** Installation and servicing must be performed by a qualified electrician in accordance with all national and local electrical codes.
- **Disconnect Power:** Always disconnect power to the control box and pump at the main circuit breaker before performing any installation, maintenance, or troubleshooting.
- **Water and Electricity:** Keep the control box away from direct water spray and ensure all connections are watertight.
- **Grounding:** Ensure the control box is properly grounded to prevent electrical shock.
- **Ventilation:** Install the control box in a well-ventilated area to prevent overheating.
- **Children:** Keep children away from the control box and pool equipment.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- Hayward H-POWER HPOW230BD Electrical Control Box
- Installation and User Manual (this document)
- Mounting hardware (screws, anchors)
- Wiring terminals/connectors (if applicable)

If any items are missing or damaged, contact your supplier immediately.

4. SETUP AND INSTALLATION

Installation of the Hayward H-POWER HPOW230BD control box should only be performed by a qualified professional.

4.1 Mounting the Control Box

1. Choose a suitable location near the pool pump, protected from direct sunlight and rain, and with adequate ventilation.
2. Ensure the mounting surface is solid and capable of supporting the weight of the control box.
3. Use the provided mounting hardware to securely attach the control box to the wall. Ensure it is level.

4.2 Electrical Connections

WARNING: Ensure main power is OFF before making any electrical connections.

1. Open the control box cover.
2. Connect the main power supply (monophase) to the designated terminals inside the box, following the wiring diagram provided on the internal label.
3. Connect the pool pump's power cable to the pump output terminals.
4. If applicable, connect the pool lighting circuit to the designated lighting output terminals.
5. Ensure all connections are tight and secure. Use appropriate cable glands to maintain water resistance.
6. Verify proper grounding for all connected components.
7. Close the control box cover securely.

5. OPERATING INSTRUCTIONS

After successful installation and power-up, the control box is ready for operation.

5.1 Initial Power-Up

1. Restore power to the control box from the main circuit breaker.
2. The LED screen will illuminate, displaying the current time and default settings.
3. Set the current time using the control buttons on the front panel as per the on-screen prompts.

5.2 Setting Filtration Timers

The H-POWER HPOW230BD includes two timers for controlling the pool filtration pump.

1. Navigate to the 'Filtration Timer' menu on the LED screen using the control buttons.
2. Set the desired ON and OFF times for Timer 1 (e.g., 8:00 AM to 12:00 PM).
3. Set the desired ON and OFF times for Timer 2 (e.g., 4:00 PM to 8:00 PM).

4. Confirm settings to save. The pump will operate according to these schedules.

5.3 Setting Lighting Timers (if applicable)

If your model supports lighting control, one timer is available for pool lighting.

1. Navigate to the 'Lighting Timer' menu.
2. Set the desired ON and OFF times for the lighting (e.g., 7:00 PM to 11:00 PM).
3. Confirm settings. The lighting will activate and deactivate based on this schedule.

5.4 Automatic Calibration

The control box features automatic calibration of the filtration pump's power consumption. This function helps optimize pump operation and enhance overload protection. The system performs this calibration automatically upon initial setup and can re-calibrate if significant changes in pump load are detected.

6. BLUETOOTH CONNECTIVITY

The H-POWER HPOW230BD allows remote control via a smartphone application.

6.1 Downloading the 'HPOWER' App

1. Search for the 'HPOWER' application in your smartphone's app store (e.g., Apple App Store for iOS, Google Play Store for Android).
2. Download and install the free application.

6.2 Pairing with the Control Box

1. Ensure Bluetooth is enabled on your smartphone.
2. Open the 'HPOWER' application.
3. The app will search for nearby H-POWER devices. Select your HPOW230BD from the list.
4. Follow any on-screen prompts within the app to complete the pairing process.

6.3 Controlling via the App

Once paired, you can use the 'HPOWER' app to:

- View the current status of your pool pump and lighting.
- Adjust filtration and lighting timers.
- Manually turn the pump or lighting ON/OFF.
- Receive alerts and notifications from the control box.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your H-POWER control box.

- **Cleaning:** Periodically clean the exterior of the control box with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the LED screen is free of dust for clear visibility.
- **Inspections:** Annually, have a qualified electrician inspect all electrical connections for tightness and signs of wear or corrosion.
- **Ventilation:** Ensure that the ventilation openings on the control box are not obstructed.
- **Firmware Updates:** Check the 'HPOWER' app or Hayward's official website for any available firmware updates for your control box.

WARNING: Disconnect power before any cleaning or inspection inside the control box.

8. TROUBLESHOOTING

This section provides solutions to common issues. For problems not listed here, contact customer support.

8.1 Pump Not Starting

- **Check Power:** Ensure the main power supply to the control box is ON.
- **Circuit Breaker:** Verify that the internal circuit breaker in the control box has not tripped. Reset if necessary.
- **Timers:** Confirm that the filtration timers are set correctly and the current time falls within an ON period.
- **Overload Protection:** If the pump has experienced an overload, the protection system may have activated. Allow time for cooling and check for any obstructions in the pump.
- **Connections:** Ensure all wiring connections to the pump are secure.

8.2 Bluetooth Connection Issues

- **Bluetooth Enabled:** Ensure Bluetooth is active on your smartphone.
- **App Running:** Make sure the 'HPOWER' app is open and running.
- **Proximity:** Be within close range of the control box for a stable Bluetooth connection.
- **Re-pair:** Try unpairing and re-pairing the device through your phone's Bluetooth settings and the 'HPOWER' app.
- **App Update:** Ensure your 'HPOWER' app is updated to the latest version.

8.3 LED Screen Not Displaying

- **Power Supply:** Check the main power supply.
- **Internal Fuse:** A qualified electrician should check any internal fuses if accessible and replaceable.

9. SPECIFICATIONS

Feature	Specification
Model Number	HPOW230BD
Manufacturer Reference	COFFRETHPOW230BD
Manufacturer	Hayward
Product Dimensions (L x W x H)	334 x 460 x 426 cm
Product Weight	1.59 kilograms
Power Compatibility	Monophase pumps up to 3 HP, Three-phase pumps up to 5 HP
Transformer Options	50W, 100W, or 300W (model dependent)
Control Interface	LED screen, Control buttons, Bluetooth via 'HPOWER' app
ASIN	B0BV2X73RS
Date First Available	February 7, 2023

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The Hayward H-POWER HPOW230BD electrical control box comes with a **12-month warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by improper installation, misuse, neglect, or unauthorized modifications.

10.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Hayward customer support:

- **Phone Support:** Available Monday to Friday, from 9:00 AM to 12:00 PM and from 2:00 PM to 5:30 PM (local time).
- Refer to your product packaging or Hayward's official website for specific contact numbers and email addresses for your region.