



Manuals.plus /

- › Hayward /
- › Hayward HDF 400 Gas Heater Kit-IGN & Flame Sensor User Manual

Hayward HDXFIGFS001

Hayward HDF 400 Gas Heater Kit-IGN & Flame Sensor User Manual

Model: HDXFIGFS001

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your Hayward HDF 400 Gas Heater Kit-IGN & Flame Sensor. Please read this manual thoroughly before attempting any installation or operation.

The Hayward HDF 400 Gas Heater Kit is designed to provide reliable ignition and flame sensing for your pool heater. This kit includes the necessary components to ensure proper functioning of your Hayward Universal HC Series heater, known for its compact design and efficient performance. Its dual-fuel technology, adaptive plumbing, and zero wall-clearance design make it a versatile and durable solution for pool heating.



Image 1.1: A compact image showing the Hayward HDF 400 Gas Heater Kit, including the igniter and flame sensor components. This kit is crucial for the proper operation of Hayward Universal HC Series pool heaters.

2. SETUP AND INSTALLATION

Installation of the Hayward HDF 400 Gas Heater Kit should only be performed by a qualified professional in accordance with all local codes and regulations. Improper installation can lead to hazardous conditions and void the product warranty.

2.1. Pre-Installation Checklist

- Verify that the heater unit is disconnected from all power sources.
- Ensure the gas supply to the heater is turned off.
- Confirm that all components of the kit are present and undamaged: igniter, flame sensor, and any associated wiring/hardware.
- Review the main heater's installation manual for specific instructions regarding igniter and flame sensor replacement.

2.2. Installation Steps (General)

1. Locate the existing igniter and flame sensor within the heater's combustion chamber or burner assembly.
2. Carefully disconnect the wiring from the old components.
3. Remove the old igniter and flame sensor, noting their orientation and mounting positions.
4. Install the new Hayward HDF 400 igniter and flame sensor, ensuring they are securely mounted and correctly oriented.
5. Connect the new wiring, ensuring all connections are tight and correct according to the main heater's wiring diagram.

6. Once installed, perform a leak test on all gas connections if any were disturbed during the process.
7. Restore gas and electrical power to the heater and test for proper operation.

3. OPERATING INSTRUCTIONS

This kit provides the necessary components for the ignition and flame sensing system of your Hayward pool heater. The operation of the heater itself is controlled by the main heater's control panel and thermostat settings. Refer to your main Hayward pool heater's user manual for detailed operating instructions.

3.1. General Operation Principles

- Ensure the pool pump is running to provide adequate water flow through the heater.
- Set the desired water temperature on the heater's control panel.
- The igniter will glow to ignite the gas, and the flame sensor will confirm the presence of a flame.
- If the flame is not detected, the heater will attempt to re-ignite or shut down for safety.

4. MAINTENANCE

Regular maintenance of your Hayward pool heater, including its ignition and flame sensing components, is crucial for optimal performance and longevity. Always disconnect power and gas supply before performing any maintenance.

4.1. Routine Checks

- **Annual Inspection:** Have a qualified service technician inspect the igniter and flame sensor annually for signs of wear, corrosion, or carbon buildup.
- **Cleaning:** If accessible and recommended by a professional, gently clean the flame sensor with a fine abrasive pad to remove any carbon deposits that might interfere with its operation. Do not use harsh chemicals.
- **Wiring:** Periodically check the wiring connections to the igniter and flame sensor for looseness or damage.

For detailed maintenance procedures specific to your heater model, consult the main Hayward pool heater manual.

5. TROUBLESHOOTING

This section addresses common issues related to the igniter and flame sensor. For comprehensive troubleshooting of your entire pool heater, refer to its dedicated manual. Always ensure power and gas are off before inspecting components.

Problem	Possible Cause	Solution
Heater attempts to ignite but fails (no flame).	Faulty igniter, no gas supply, or flame sensor issue.	Check gas supply. Inspect igniter for damage (cracks, breaks). Inspect flame sensor for carbon buildup. Consult a professional for replacement if necessary.
Heater ignites, but flame goes out quickly.	Dirty or faulty flame sensor, poor ground connection, or low gas pressure.	Clean flame sensor. Verify proper grounding. Ensure adequate gas pressure.
Heater cycles on and off frequently.	Intermittent flame sensor signal or other heater control issues.	Inspect flame sensor and its wiring. This could also indicate issues with the main heater's control board; consult a professional.

If troubleshooting steps do not resolve the issue, contact a qualified service technician.

6. SPECIFICATIONS

The Hayward HDF 400 Gas Heater Kit-IGN & Flame Sensor is designed for compatibility with specific Hayward Universal HC Series pool heaters. Key specifications include:

- **Model:** HDXFIGFS001
- **Type:** Igniter and Flame Sensor Kit
- **Compatibility:** Designed for Hayward Universal HC Series Gas Heaters (e.g., HDF 400 models)
- **Manufacturer:** Hayward-Pool
- **ASIN:** B0BTMV57HF

For detailed electrical and gas specifications, refer to the main Hayward pool heater manual.

7. WARRANTY INFORMATION

Specific warranty details for the Hayward HDF 400 Gas Heater Kit-IGN & Flame Sensor are typically provided with the product packaging or can be found on the official Hayward website. Generally, Hayward products come with a limited warranty covering defects in materials and workmanship for a specified period from the date of purchase.

Please retain your proof of purchase for warranty claims. For the most current and detailed warranty terms and conditions, visit the official Hayward website or contact Hayward customer support directly.

8. CUSTOMER SUPPORT

If you require technical assistance, have questions about installation, operation, or maintenance, or need to report a problem with your Hayward HDF 400 Gas Heater Kit-IGN & Flame Sensor, please contact Hayward customer support.

Hayward Official Website: www.hayward.com (Please check the website for specific contact numbers, email addresses, or online support portals.)

When contacting support, please have your product model number (HDXFIGFS001) and purchase information readily available to expedite assistance.

9. OFFICIAL PRODUCT VIDEOS

No official product videos from the seller were found for the Hayward HDF 400 Gas Heater Kit-IGN & Flame Sensor in the provided data. For instructional videos related to Hayward pool heater maintenance or installation, please check the official Hayward website or their authorized YouTube channels.

