

Vicue 025-37499-000

Vicue 025-37499-000 Gas Furnace Flame Sensor Instruction Manual

Model: 025-37499-000

1. INTRODUCTION

This instruction manual provides essential information for the safe and effective use of the Vicue 025-37499-000 Gas Furnace Flame Sensor. Please read this manual thoroughly before installation or operation. Proper installation and maintenance are crucial for the optimal performance and safety of your furnace system.

Important: Installation of furnace components should ideally be performed by a qualified HVAC professional. Incorrect installation can lead to property damage, serious injury, or death.

2. PRODUCT OVERVIEW

The Vicue 025-37499-000 Gas Furnace Flame Sensor is a critical safety component designed to monitor the presence of a flame in your gas furnace. It is constructed from high-quality, wear-resistant metals and ceramics to ensure durability and reliable performance.

Function: The flame sensor detects the furnace flame to confirm that ignition has occurred. It continuously monitors the flame during operation. If the flame is interrupted for any reason, the sensor will lose its signal, prompting the furnace control board to close the gas valve, preventing the release of uncombusted gas.



Image 2.1: Two Vicue 025-37499-000 Gas Furnace Flame Sensors, showing their metallic rod and ceramic insulator components.

Flame Rod Sensor number 025-37499-000

100% new

FURNACE FLAME SENSOR

Made from high-quality materials, it is safe and reliable, with a long service life.



2PCS

Image 2.2: Detailed dimensions of the Vicue 025-37499-000 Gas Furnace Flame Sensor, indicating lengths of 3.4 inches, 1.7 inches, and widths of 0.3 inches, 0.7 inches, and 0.73 inches for various parts.

3. COMPATIBILITY

This flame sensor is designed as an aftermarket replacement for various furnace models from York, Luxaire, and Coleman. It replaces part numbers S1-025-37499-000, 025-37499-000, ACS90453BXA, ACS90703BXA, ACS90704CXA, ACS90904CXA, ACS90905DXA, ACS91155DXA, P1257001F, P1257002F, P1257003F, P1257004F, P1257005F, P1257007F, P1257008F, P1257009F, P1257010F.

Compatible Models Include (but are not limited to):

- **York:** CM8M080B12MP11, CM8M080C16MP11, CM8M100C16MP11, CM8M100C20MP11, CM9M060812MP11, CM9M080B12MP11, CM9M080C16MP11, CM9M100C16MP11, CM9M100C20MP11, CM9M120D20MP11, CMBM060A12MP11, CMBM120C20MP11, CMLM080812MP11, CMLM060A12MP11, CMLM080B12MP11, CMLM080C16MP11, CMLM0B0C16MP11, CMLM100C16MP11, CMLM100C20MP11, CMLM120C20MP11, CP8C060A12MP11, CP8C080B12MP11, CP8C080C16MP11, CP8C100C16MP11, CP8C100C20MP11, CP8C120C20MP11, CP9C120020MP12C, CP9C120D20MP12C, CP9C060B12MP11, CP9C060B12MP12C, CP9C080812MP12C, CP9C080B12MP11, CP9C080B12MP12C, CP9C080C16MP12C, CP9C080C16MP11, CP9C100C16MP11, CP9C100C16MP12C, CP9C100C20MP11, CP9C100C20MP12C, CP9C120020MP11

- **Luxaire:** CPLC120C20MP12C, CPLC060A12MP11, CPLC060A12MP12C, CPLC080812MP12C, CPLC080B12MP11, CPLC080B12MP12C, CPLC080C16MP11, CPLC080C16MP12C, CPLC100C16MP11, CPLC100C16MP12C, CPLC100C20MP11, CPLC100C20MP12C, CPLC120C20MP11
- **Coleman:** DGAD060CD, DGAD060CDG, DGAD060CDH, DGAD060CDJ, DGAD060CDK, DGAD060CDL, DGAE080CD, DGAE080CDG, DGAE080CDH, DGAE080CDJ, DGAE080CDK, DGAE080CDL, DGAF100CD, DGAF100CDG, DGAF100CDH, DGAF100CDJ, DGAF100CDK, DGAF100CDL, FC9080C20UP11, FC91060B12DH11, FC91060B12UP11, FC91080B12DH11, FC95080B12UP11, FC95080C16DH11A, FC95120D20UP11A, FC95135D20UP11B, FC9C060B12DH11, FC9C060B12UP11, FC9C080B12UP11, FC9C080B12DH11, FC9C080C16DH11, FC9C080C16UP11, FC9C100C16DH11, FC9C100C16UP11, FC9C100C20DH11, FC9C100C20UP11, FC9C120D20DH11, FC9C120D20UP11, FC9M060B12DH11, FC9M060B12UP11, FC9M080B12DH11, FC9M080B12UP11, FC9M080C16UP11, FC9M080C16DH11, FC9M100C16DH11, FC9M100C16UP11, FC9M100C20DH11, FC9M100C20UP11, FC9M120D20DH11, FC9M120D20UP11, FC9S100C20UP11, FC9S120D20DH11A, FC9S120D20UP11, FC9S120D20UP11B, FC9S135D20UP11, FC9S040A12DH11, FC9S040A12DH11A

Always verify the exact part number required for your specific furnace model before purchasing and installing any replacement part.

4. SAFETY INFORMATION

Working with gas furnaces involves inherent risks. Adhere to all safety precautions to prevent injury or damage.

- **Disconnect Power:** Always turn off the electrical power to the furnace at the main breaker before performing any service or maintenance.
- **Shut Off Gas Supply:** Close the main gas supply valve to the furnace before beginning work.
- **Qualified Personnel:** It is highly recommended that installation and service be performed by a qualified HVAC technician.
- **Personal Protective Equipment:** Wear appropriate safety gear, such as gloves and eye protection.
- **Ventilation:** Ensure the work area is well-ventilated.
- **Check for Leaks:** After any work involving gas lines, check for gas leaks using a leak detection solution.

5. SETUP AND INSTALLATION

This section provides general guidance for replacing a flame sensor. Specific steps may vary depending on your furnace model. Refer to your furnace's service manual for detailed instructions or consult a professional.

1. **Preparation:** Ensure all power and gas supplies to the furnace are disconnected as per Section 4.
2. **Locate the Flame Sensor:** The flame sensor is typically a thin metal rod located in the path of the burner flames, often near the igniter. It will have a single wire connected to it.
3. **Remove Old Sensor:** Carefully disconnect the wire from the old flame sensor. Use a wrench or socket to unbolt the sensor from its mounting bracket. Note its orientation for correct reinstallation.
4. **Install New Sensor:** Position the new Vicue 025-37499-000 flame sensor in the same orientation as the old one. Secure it with the mounting bolt, ensuring it is snug but not overtightened.
5. **Connect Wiring:** Reconnect the wire to the new flame sensor. Ensure the connection is secure.
6. **Restore Power and Gas:** Once the sensor is securely installed and all connections are verified, restore the gas supply and then the electrical power to the furnace.
7. **Test Operation:** Initiate a heating cycle to confirm proper furnace operation and flame sensor function.

For visual assistance, many installation guides are available online. For example, searching on video platforms like [YouTube](#) for "furnace flame sensor replacement" may provide helpful demonstrations.

FURNACE FLAME SENSOR

The flame sensor senses the furnace flame to ensure that ignition has occurred. It then monitors the flame until the furnace is shut down. If combustion is interrupted for any reason, the sensor will lose its signal and close the gas valve.



Image 5.1: A flame sensor positioned within a gas furnace, actively sensing the burner flames during operation.

6. OPERATING PRINCIPLES

The flame sensor operates on the principle of flame rectification. When the furnace ignites, the flame creates a conductive path for a small electrical current. The flame sensor, acting as a probe, detects this current. If the control board receives this signal, it confirms the presence of a flame and allows the gas valve to remain open. If the signal is lost, indicating no flame, the control board will shut off the gas supply to prevent hazardous conditions.

7. MAINTENANCE

Regular maintenance of your furnace, including the flame sensor, can extend its lifespan and ensure safe operation. It is recommended to have your furnace inspected annually by a qualified technician.

- **Inspection:** During annual maintenance, the flame sensor should be inspected for signs of carbon buildup or corrosion.
- **Cleaning:** If carbon buildup is present, the sensor can often be gently cleaned with fine-grit sandpaper or steel wool. Avoid harsh chemicals or abrasive cleaners that could damage the ceramic insulator.
- **Replacement:** If the sensor shows signs of significant damage, cracking, or if cleaning does not resolve flame

sensing issues, it should be replaced.

8. TROUBLESHOOTING

A malfunctioning flame sensor is a common cause of furnace issues. Here are some common problems and potential solutions:

Problem	Possible Cause	Solution
Furnace ignites, runs for a short period, then shuts off (short cycling).	Dirty or faulty flame sensor.	Inspect and clean the flame sensor. If the problem persists, replace the sensor.
Furnace attempts to ignite but fails, then locks out.	Flame sensor not detecting flame, or igniter issue.	Ensure the flame sensor is properly positioned in the flame path. Clean or replace the flame sensor. Check igniter function.
Furnace error codes related to flame proving.	Flame sensor malfunction or wiring issue.	Consult your furnace manual for specific error code meanings. Check flame sensor wiring for secure connections. Clean or replace the sensor.

If troubleshooting steps do not resolve the issue, contact a qualified HVAC technician for diagnosis and repair.



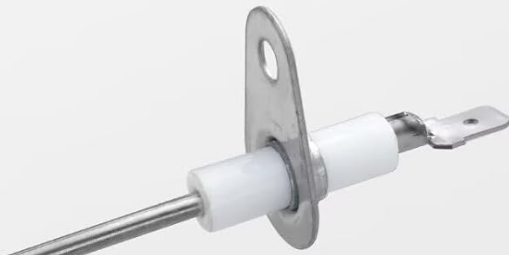
Flame Sensor

Made of advanced materials, sturdy enough to prevent cracking and damage during installation and use.

FURNACE FLAME SENSOR

Solve the following

- ✓ Resolve the issue of the furnace stalling frequently
- ✓ Quickly turn off the engine after starting
- ✓ Staying on once it fires up



2
pcs

Image 8.1: Visual representation of a flame sensor's role in resolving common furnace problems such as frequent stalling and premature shutdowns.

FURNACE FLAME SENSOR



Not easily
broken



High quality
materials



Easy to
install



Safe and
reliable

It is made of high-quality and wear-resists meta and ceramics, and has been well tested by the manufacturer – ensuring lasting and effective performance



Part Number:
025-37499-000

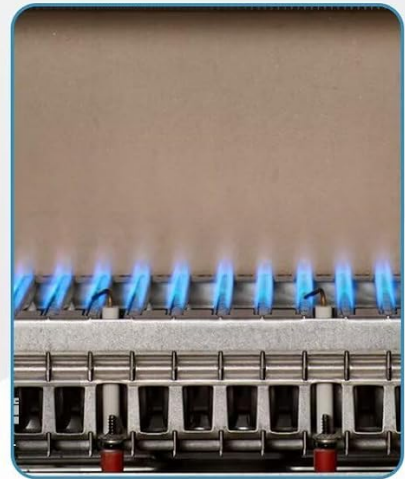


Image 8.2: The Vicue flame sensor highlighted for its durable construction, ease of installation, and reliable performance, shown with examples of furnace flames.

9. SPECIFICATIONS

Attribute	Detail
Brand	Vicue
Model Number	025-37499-000
Replacement Part Numbers	S1-025-37499-000, 025-37499-000, ACS90453BXA, ACS90703BXA, ACS90704CXA, ACS90904CXA, ACS90905DXA, ACS91155DXA, P1257001F, P1257002F, P1257003F, P1257004F, P1257005F, P1257007F, P1257008F, P1257009F, P1257010F
Item Weight	1.76 ounces (0.05 Kilograms)
Material	High-quality wear-resistant metals and ceramics
Manufacturer	Goodicare

10. SUPPORT

For any questions or issues regarding the Vicue 025-37499-000 Gas Furnace Flame Sensor, please contact the seller or manufacturer directly. When contacting support, please have your product model number (025-37499-000) and purchase information available.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question