

## Viessmann 7839451

# Viessmann 7839451 Ionization Electrode with Gasket User Manual

For Vitodens 200-W Series Boilers

## 1. PRODUCT OVERVIEW

The Viessmann 7839451 Ionization Electrode with Gasket is a replacement part designed for specific models of Vitodens 200-W Series Residential Wall-Mounted Gas Condensing Boilers. This component is crucial for the proper and safe operation of your boiler system.

It is compatible with Vitodens 200-W B2HA (28/35), Vitodens 200-W B2HB (26/35), and Vitodens 200-W B2TB (19/35) Series boilers.



Image showing the Viessmann 7839451 Ionization Electrode, including the electrode itself, a gasket, and two screws. This assembly is a critical component for boiler ignition and flame sensing.

### What's in the Box:

- Viessmann 7839451 Ionization Electrode
- Gasket

## 2. SETUP AND INSTALLATION

### Important Safety Notice:

Any adjustments, installations, service, or maintenance of this component must be completed by a licensed

professional heating contractor who is qualified to work with hot water boilers. Attempting to install or service this part without proper qualifications can lead to serious injury, property damage, or improper boiler operation. Before ordering replacement parts, it is essential to check with the manufacturer and provide the 16-digit boiler serial number or the 12-digit ASME/NB serial number to ensure a proper fit and compatibility.

Installation typically involves:

1. Ensuring the boiler system is completely powered off and depressurized.
2. Carefully removing the old ionization electrode and gasket.
3. Cleaning the mounting area.
4. Installing the new Viessmann 7839451 electrode with the provided gasket, ensuring a secure and proper seal.
5. Reconnecting any necessary wiring.
6. Verifying proper operation after installation by a qualified professional.

### 3. OPERATING PRINCIPLES

The ionization electrode plays a critical role in the safe operation of gas condensing boilers. Its primary function is flame sensing. When the boiler ignites, the flame creates an electrical current that is detected by the ionization electrode. This signal confirms the presence of a flame to the boiler's control system.

If the control system does not detect a flame when it expects one (e.g., during ignition or continuous operation), it will shut down the gas supply to prevent uncombusted gas from accumulating, which is a vital safety feature. This electrode does not require user interaction during normal boiler operation. Its function is entirely automated and monitored by the boiler's internal controls.

### 4. MAINTENANCE

Regular maintenance of your boiler system, including inspection of the ionization electrode, should only be performed by a licensed professional heating contractor.

Over time, ionization electrodes can become fouled with combustion byproducts, which can impair their ability to sense the flame accurately. A qualified technician will inspect the electrode during routine boiler servicing and clean or replace it as necessary to ensure continued safe and efficient operation.

Do not attempt to clean or replace the ionization electrode yourself unless you are a certified professional.

### 5. TROUBLESHOOTING

Issues related to the ionization electrode typically manifest as boiler lockout errors, failure to ignite, or intermittent operation. Common symptoms include:

- Boiler fails to ignite.
- Boiler ignites but then immediately shuts down.
- Error codes related to flame sensing or ignition.

**If you experience any of these issues, do not attempt to diagnose or repair the problem yourself.**

Contact a licensed professional heating contractor immediately. They have the specialized tools, knowledge, and training to safely diagnose and resolve boiler issues, including those related to the ionization electrode.

## 6. SPECIFICATIONS

Attribute	Value
Manufacturer	Viessmann
Brand	Viessmann
Model Number	7839451
Item Weight	3.24 ounces
Package Dimensions	6.93 x 4.41 x 2.8 inches
Manufacturer Part Number	7839451
Compatible Boiler Series	Vitodens 200-W B2HA (28/35), Vitodens 200-W B2HB (26/35), Vitodens 200-W B2TB (19/35)

## 7. WARRANTY AND SUPPORT

For information regarding the warranty of the Viessmann 7839451 Ionization Electrode with Gasket, please refer to the documentation provided with your original Viessmann boiler or contact Viessmann directly.

Warranty claims typically require proof of purchase and professional installation.

As stated throughout this manual, all installation, service, and maintenance must be performed by a licensed professional heating contractor. Unauthorized work may void your product warranty and could lead to unsafe operating conditions.

For technical support or to locate a qualified service professional, please visit the official Viessmann website or contact their customer service department. When contacting support, have your boiler's 16-digit serial number or 12-digit ASME/NB serial number ready.

[Visit Viessmann Official Website](#)

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Documents - Viessmann – 7839451

no relevant documents

