

## MIZUDO HW180A0W

# MIZUDO HW180A0W Tankless Water Heater and Direct Vent Pipe Kit Instruction Manual

Model: HW180A0W

## 1. IMPORTANT SAFETY INFORMATION

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Read all instructions thoroughly before installation and operation. Failure to follow these instructions could result in property damage, personal injury, or death.

- Installation must be performed by a qualified professional in accordance with all local codes and regulations.
- Ensure proper ventilation. This unit requires a direct vent system.
- Do not store flammable materials near the water heater.
- Regularly inspect the vent system for obstructions or damage.
- This appliance is designed for indoor use only.
- The water heater includes protection features such as freeze prevention, dry-fire safeguard, auto-relight, flue obstruction detection, and emergency shutoff. Do not bypass these safety mechanisms.

## 2. SETUP AND INSTALLATION

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The MIZUDO HW180A0W tankless water heater is designed for use with a direct vent system. This bundle includes the necessary 3"x5" direct vent pipe kit for installation.

### 2.1 Vent Pipe Kit Components

# Installation Illustration

Compatible with MIZUDO HW180A0W water heater



## Accessories Included

- ① Elbow
- ② Rubber Wall Plate x 2
- ③ Concentric Pipe
- ④ 45° Angle Termination

**Image 2.1:** This illustration shows the components of the direct vent pipe kit compatible with the MIZUDO HW180A0W water heater. The numbered parts are: 1) Elbow, 2) Rubber Wall Plate (x2), 3) Concentric Pipe, and 4) 45° Angle Termination.

The included vent pipe kit consists of an elbow, two rubber wall plates, a concentric pipe, and a 45° angle termination. These components are crucial for establishing the sealed combustion system.

## 2.2 Direct Vent System Overview

## Dual-wall Direct Vent Pipe



**Image 2.2:** This diagram illustrates the function of the dual-wall direct vent pipe. The outer layer draws in fresh air (O<sub>2</sub>) for combustion, while the inner layer exhausts combustion byproducts (CO<sub>2</sub>, N<sub>2</sub>, CO) safely outside, maintaining indoor air quality.

The MIZUDO tankless water heater utilizes an advanced sealed combustion system. This design draws external air for combustion through the outer layer of the dual-wall vent pipe and exhausts combustion fumes through the inner layer. This process ensures that indoor air quality is preserved.

## Suitable for Multiple Location



Bathroom



Kitchen



Cabinet



Garage

### Dual-wall direct vent pipe

Supply oxygen outdoors  
Exhaust the combustion fumes



### Fully enclosed design

Prevent CO leakage  
Enhance the safety of usage

### IPX4 waterproof

Suitable for bathroom  
installation



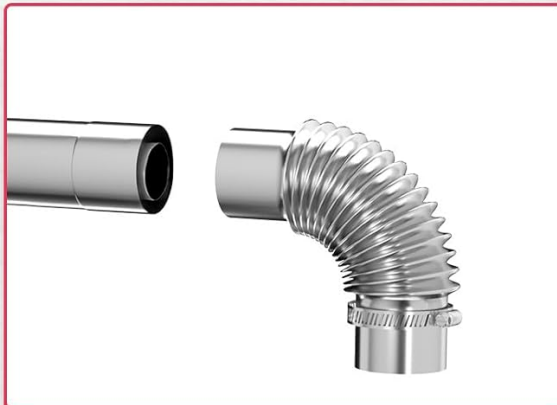
**Image 2.3:** This image clarifies that the MIZUDO HW180A0W is only applicable for a direct vent system, which typically involves horizontal venting through an exterior wall. It explicitly shows that a traditional chimney vent system is not compatible.

It is critical to note that this water heater is designed exclusively for a direct vent system, which typically involves horizontal venting. It is not compatible with traditional chimney vent systems.

### 2.3 Vent Pipe Installation Process



# Installation Process



Step 1: Align connectors



Step 2: Close connectors



Step 3: Tighten clamp

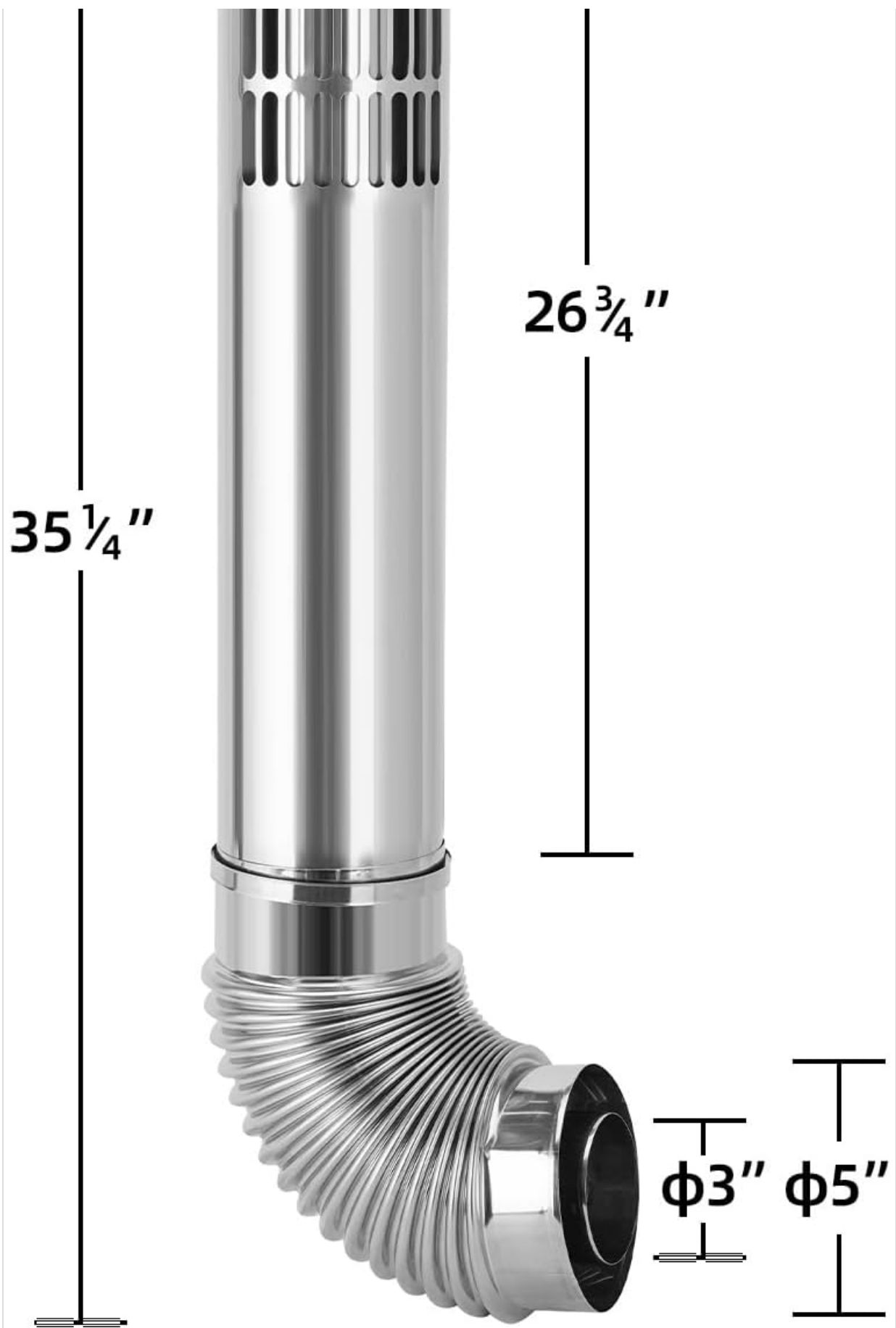


Step 4: Finished

**Image 2.4:** This sequence illustrates the four steps for installing the direct vent pipe: Step 1: Align connectors, Step 2: Close connectors, Step 3: Tighten clamp, Step 4: Finished connection.

The installation of the vent pipe involves aligning the connectors, securely closing them, and then tightening the clamp to ensure a sealed connection. Refer to the detailed installation manual for specific instructions and safety precautions.





**Image 2.5:** This image provides the key dimensions of the direct vent pipe kit, showing an overall length of 35¼ inches, with the main pipe section being 26¾ inches. The pipe diameters are indicated as 3 inches and 5 inches for the inner and outer walls, respectively.

Ensure adequate space for the vent pipe, considering its dimensions. The pipe has an overall length of 35¼ inches, with a main section of 26¾ inches, and inner/outer diameters of 3 inches and 5 inches respectively.

### 3. OPERATING INSTRUCTIONS

The MIZUDO HW180A0W tankless water heater provides instant hot water and features WiFi connectivity for enhanced control.

#### 3.1 Basic Operation

Once installed and connected to power and propane, the unit will be ready for operation. The front panel display shows the current temperature and operational status. Refer to the full user manual for detailed instructions on setting the desired water temperature directly on the unit.

#### 3.2 APP Remote Operation (WiFi-Enabled)



**Image 3.1:** This image displays the smartphone application interface for remote control of the MIZUDO water heater. The app allows users to view consumption reports, check troubleshooting information, switch the device on/off, adjust temperature, and set ECO mode.

The water heater is WiFi-enabled, allowing for remote operation via a dedicated smartphone application. Through

the app, users can:

- Switch the device on/off.
- Adjust the water temperature.
- Set ECO mode for energy efficiency.
- View consumption reports.
- Access troubleshooting information.

Download the MIZUDO app from your device's app store and follow the in-app instructions to connect your water heater to your home WiFi network.

## 4. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your MIZUDO tankless water heater.

- **Annual Flushing:** It is recommended to flush the water heater annually to remove mineral buildup, especially in areas with hard water. Consult a qualified technician for this procedure.
- **Vent System Inspection:** Periodically inspect the direct vent pipe for any obstructions, damage, or signs of corrosion. Ensure all connections are secure.
- **Inlet Water Filter:** Check and clean the inlet water filter screen as needed to prevent debris from entering the unit.
- **Exterior Cleaning:** Keep the exterior of the unit clean and free from dust and debris. Use a soft, damp cloth for cleaning.
- **Freeze Prevention:** The unit has built-in freeze prevention. However, in extremely cold conditions or during extended power outages, additional measures may be necessary. Refer to the full manual for details.

## 5. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For complex problems or error codes not listed here, consult the full user manual or contact MIZUDO customer support.

Problem	Possible Cause	Solution
No hot water	No power, gas supply off, water inlet valve closed, error code displayed.	Check power supply, ensure gas valve is open, open water inlet valve, check for error codes and refer to manual.
Inconsistent water temperature	Low water flow, mineral buildup, incorrect temperature setting.	Ensure adequate water flow, consider annual flushing, adjust temperature setting.
Unit not igniting	No gas supply, ignition sensor issue, vent obstruction.	Verify gas supply, inspect vent system for blockages, contact service technician if issue persists.



Problem	Possible Cause	Solution
Error code displayed	Specific system malfunction.	Note the error code and consult the detailed troubleshooting section in the complete user manual or MIZUDO support.

## 6. SPECIFICATIONS

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Key specifications for the MIZUDO HW180A0W Tankless Water Heater and Vent Pipe Kit:

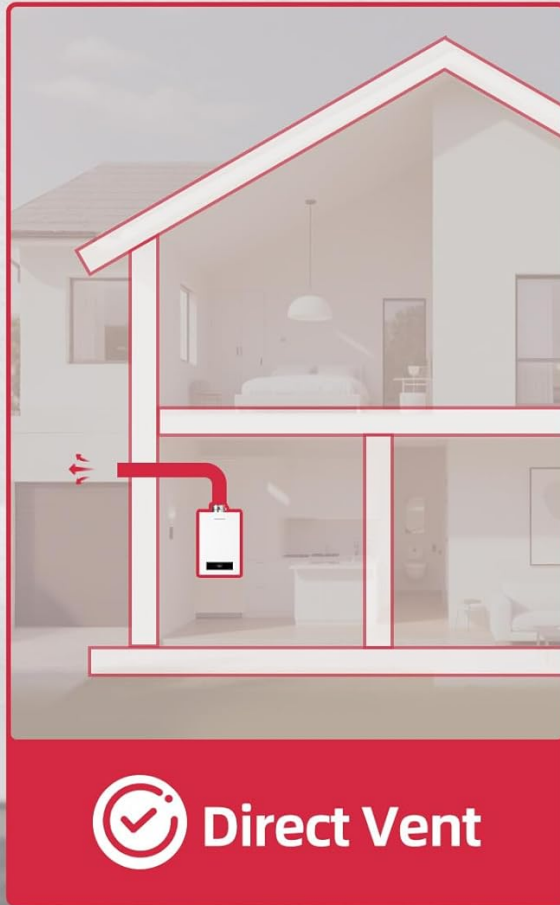
- **Model:** HW180A0W
- **Fuel Type:** Propane
- **Maximum Flow Rate:** 7.9 GPM (Gallons Per Minute)
- **Heating Capacity:** 180,000 BTU
- **Vent Type:** Direct Vent (3"x5" pipe included)
- **Special Features:** WiFi-Enabled, Advanced Sealed Combustion System, Freeze Prevention, Dry-Fire Safeguard, Auto-Relight, Flue Obstruction Detection, Emergency Shutoff.
- **Certifications:** CSA Certified
- **Installation Location:** Indoor (Suitable for Bathroom, Kitchen, Cabinet, Garage)
- **Waterproof Rating:** IPX4



**Image 6.1:** The MIZUDO HW180A0W tankless water heater shown alongside its direct vent pipe kit, highlighting the compact design and integrated display.

# Only Applicable for Direct Vent System

This system is a horizontal venting



**Image 6.2:** An installed MIZUDO HW180A0W tankless water heater, demonstrating its suitability for various indoor locations and its CSA certification.

# Safe and Efficient Home Hot Water Solution



- ✓ Suitable for Multiple Location
- ✓ No Risk of CO Leakage
- ✓ 180,000BTU Instant Heating
- ✓ Precise Temperature Control
- ✓ APP Remote Operation
- ✓ CSA Certified



**Image 6.3:** This image highlights the safety and efficiency features of the MIZUDO HW180A0W, including CSA certification, suitability for multiple locations, no risk of CO leakage, 180,000 BTU instant heating, precise temperature control, and APP remote operation.



# APP Remote Operation



- View consumption reports
- Check troubleshooting
- Switch devices on/off
- Adjust temperature
- Set ECO mode

**Image 6.4:** The MIZUDO HW180A0W tankless water heater demonstrating its APP remote operation capability, allowing users to control settings and monitor performance via a smartphone.

## 7. WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official MIZUDO website. Warranty terms typically cover manufacturing defects for a specified period.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact MIZUDO customer service. Contact information can usually be found on the MIZUDO website or in the full product manual.



