

MIZUDO PB1121D-001A-01-XX

MIZUDO PB1121D-001A-01-XX Gas Instantaneous Water Heater User Manual

Model: PB1121D-001A-01-XX | Brand: MIZUDO

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of your MIZUDO PB1121D-001A-01-XX Gas Instantaneous Water Heater. Please read these instructions thoroughly before installation and use, and retain them for future reference. This appliance is designed to provide instant hot water for domestic use, featuring a sealed chamber, low NOx emissions, and an 11 L/min flow rate.

2. SAFETY INFORMATION

Important Safety Instructions:

- Installation and servicing must be performed by a qualified and authorized technician in accordance with local regulations and standards.
- Ensure adequate ventilation if not an air-independent model. This model is air-independent, but proper flue installation is critical.
- Do not store flammable materials near the water heater.
- Regularly check for gas leaks. If a gas odor is detected, immediately shut off the gas supply, open windows, and contact emergency services.
- Do not obstruct the flue outlet. The flue is essential for safe operation and is not included with the heater.
- Ensure the water heater is protected from freezing temperatures.
- Disconnect power and gas supply before performing any maintenance or repairs.

3. PRODUCT OVERVIEW

3.1 Key Features

- **Sealed Chamber Design:** Compatible with solar systems and suitable for indoor installation.
- **Smart Zone Thermostat:** Continuously adjusts temperature for stable hot water, even with multiple draws.

- **Electronic Ignition:** Automatic low-pressure ignition, functional at minimum water pressure of 0.1 bar.
- **Multifunctional LED Display:** Easy temperature monitoring and adjustment, with diagnostic indicators.
- **Low NO_x Emissions:** Efficient burner design for reduced environmental impact.
- **Antibacterial Oxygen-Free Copper Water Tank:** Corrosion-resistant, leak-proof, high thermal conductivity, and extended lifespan.
- **High Flow Rate:** Provides 11 liters per minute of hot water.

3.2 Components and Connections

The MIZUDO instantaneous water heater features a compact design with clearly marked connections for gas, cold water inlet, and hot water outlet. The top of the unit accommodates the flue system.



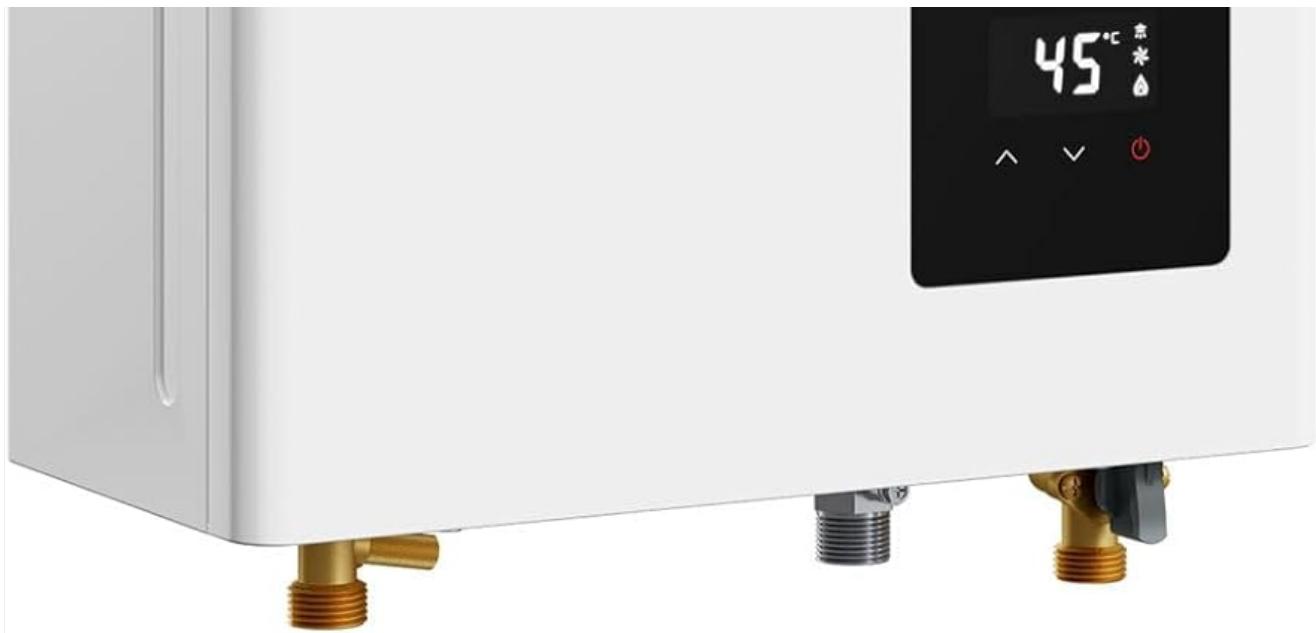


Figure 1: Front view of the MIZUDO Gas Instantaneous Water Heater, showing the LED display and control buttons.

Produktabmessungen und Zubehör

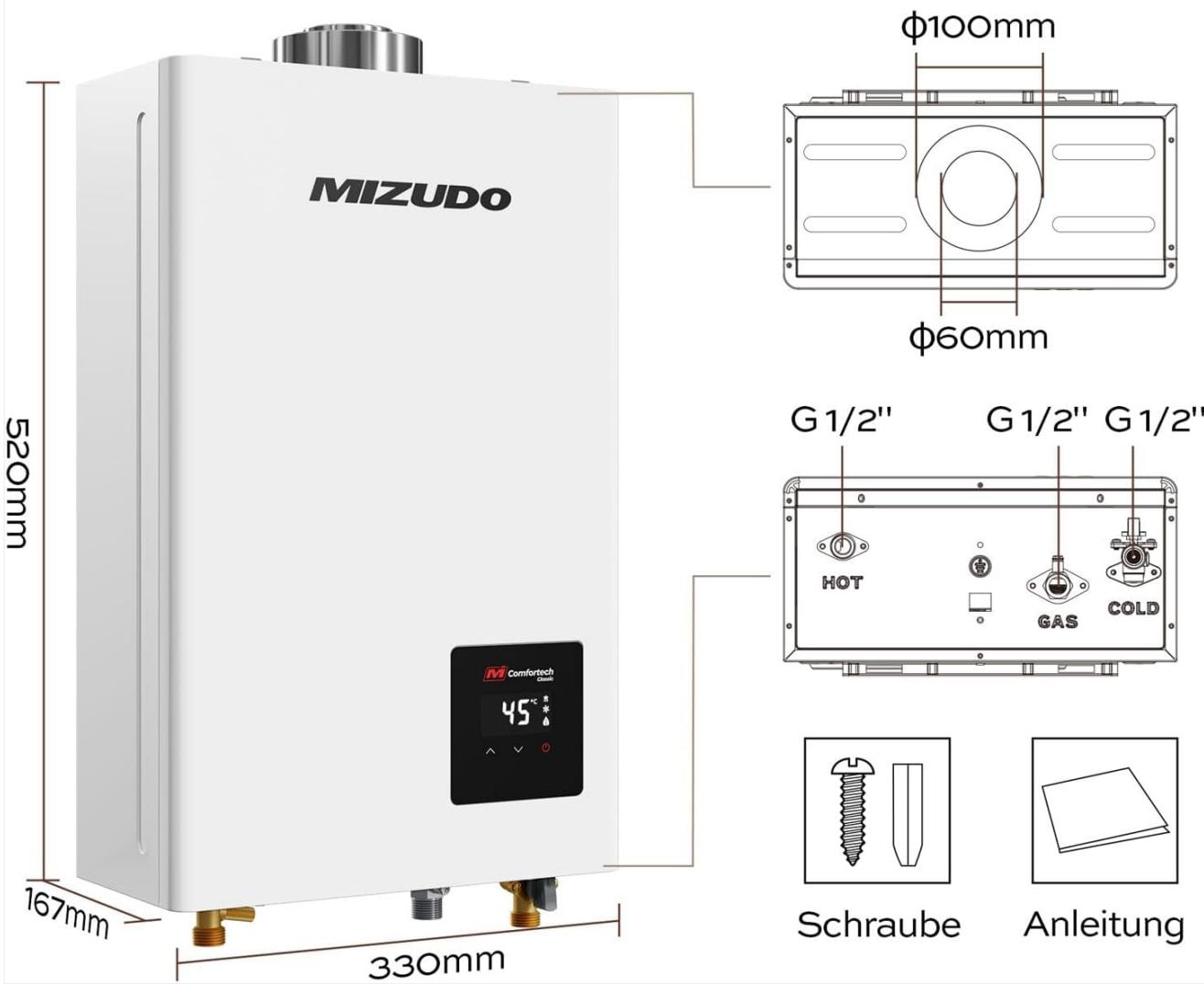


Figure 2: Detailed diagram illustrating the product dimensions (520mm height, 330mm width, 167mm depth) and connection points for hot water (G1/2"), gas (G1/2"), and cold water (G1/2"). Flue diameters are also shown (Ø60mm inner, Ø100mm outer).



Figure 3: Illustration of key internal components, including the high-speed fan, gas proportional valve, water flow sensor, and intelligent control chip.

4. SETUP AND INSTALLATION

Installation of this gas water heater must be carried out by a certified professional to ensure safety and compliance with all local codes and regulations. The unit is designed for wall mounting.

4.1 Site Selection

- Choose a location that is protected from freezing temperatures.
- Ensure the mounting surface is strong enough to support the weight of the unit (approximately 13.4 kg).
- Allow sufficient clearance around the unit for maintenance and proper air circulation.
- This model is suitable for indoor installation in various rooms such as bathrooms, kitchens, or balconies, provided proper flue installation is maintained.

Wasserdichter Warmwasserbereiter

Kann in geschlossenen Räumen installiert werden

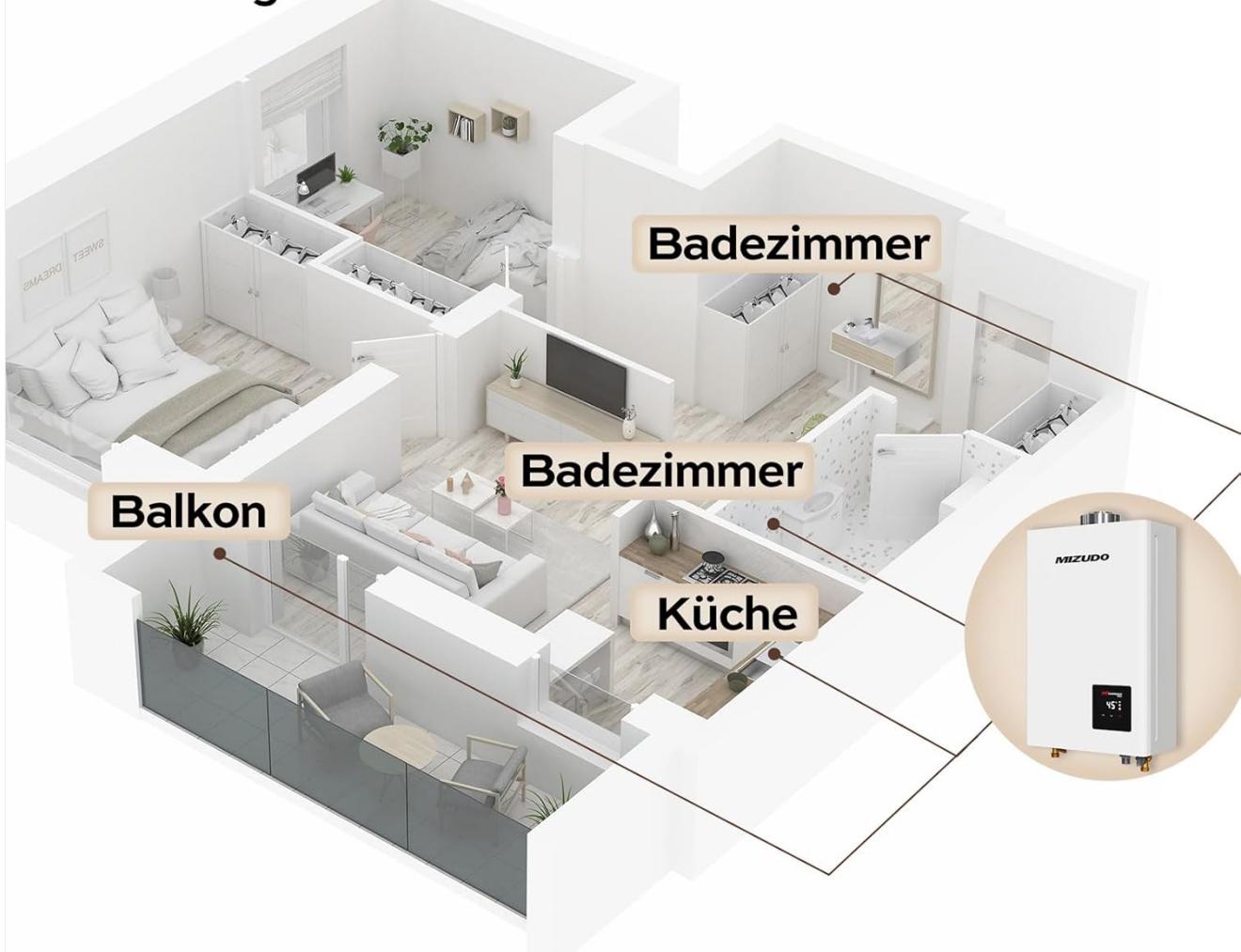


Figure 4: Example floor plan indicating suitable indoor installation locations such as bathrooms, kitchens, and balconies.

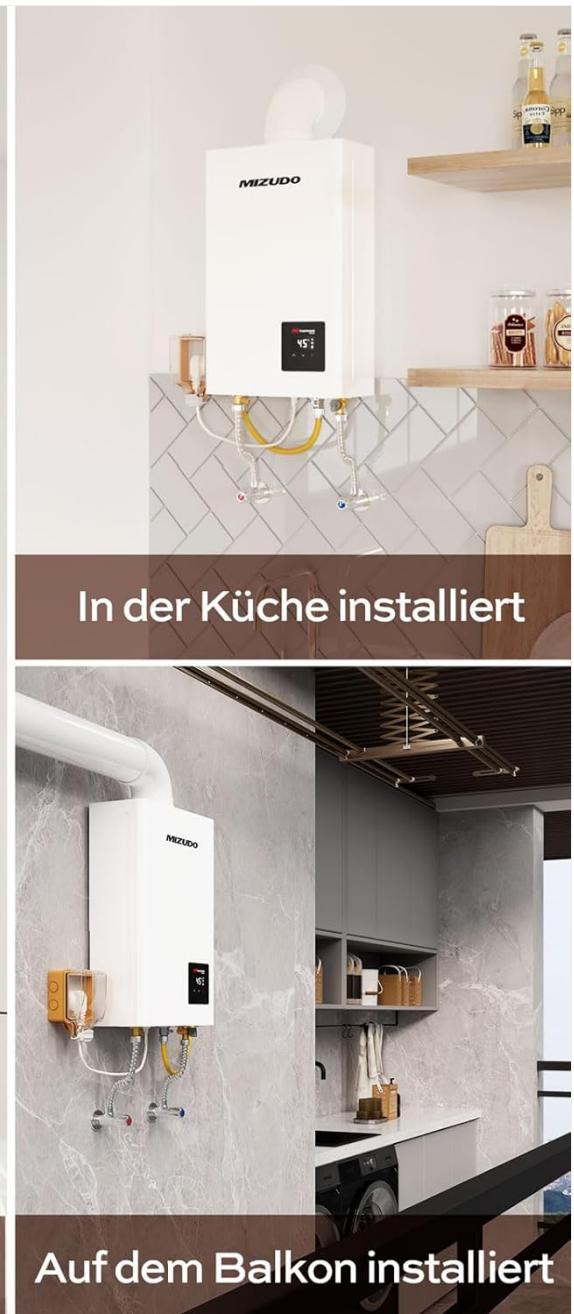


Figure 5: Visual examples of the water heater installed in a bathroom, kitchen, and on a balcony, demonstrating typical mounting scenarios.

4.2 Connections

- **Gas Connection:** Connect to a Propane (LPG) supply using a 1/2 inch gas inlet. Ensure all gas connections are sealed and tested for leaks.
- **Water Connections:** The cold water inlet and hot water outlet both require 1/2 inch connections.
- **Flue System:** A flue with an inner diameter of 60mm and an outer diameter of 100mm is required for exhaust. This component is not included with the heater and must be sourced separately and installed by a professional.

5. OPERATING INSTRUCTIONS

5.1 Initial Startup

1. Ensure all gas and water connections are secure and leak-free.
2. Open the main gas supply valve.
3. Open a hot water tap in your home. The water heater will automatically ignite due to its electronic low-pressure

ignition system, even with a minimum water pressure of 0.1 bar.

4. Verify that hot water is flowing consistently.

5.2 Temperature Adjustment

The multifunctional LED display allows for precise temperature control. Use the control buttons on the unit to adjust the desired hot water temperature. The smart zone thermostat will maintain this temperature consistently.



Figure 6: Close-up view of the low NOx burner in operation, showing efficient blue flames and indicating rapid heating.

6. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your MIZUDO water heater. It is recommended to have the unit inspected annually by a qualified technician.

- **Flue System:** Ensure the flue is clear of obstructions and in good condition.
- **Water Connections:** Check for any signs of leaks around the water inlet and outlet.
- **Gas Connections:** Periodically check for gas leaks using a suitable leak detection solution.

- **Cleaning:** Keep the exterior of the unit clean. Do not use abrasive cleaners.
- **Internal Components:** The antibacterial oxygen-free copper water tank is designed for corrosion resistance and long life, but internal inspections should be part of professional servicing.



Figure 7: Illustration highlighting safety features such as effective gas exhaust prevention, IPX4D waterproof quality for protection against splashing water, and noise reduction technology.

7. TROUBLESHOOTING

If you encounter issues with your water heater, refer to the following common troubleshooting steps. For complex problems, contact a qualified technician.

- **No Hot Water:**
 - Check if the gas supply is open and sufficient.
 - Ensure water pressure meets the minimum requirement (0.1 bar).
 - Verify the unit is receiving power (if applicable for electronic ignition).
- **Inconsistent Water Temperature:**

- Check the temperature setting on the LED display.
- Ensure there are no sudden drops in water pressure.
- The smart zone thermostat should regulate temperature effectively; if not, professional inspection may be needed.

• Error Codes on LED Display:

The LED display can show diagnostic information. Consult a professional if an error code persists after basic checks.

8. SPECIFICATIONS

The following table details the technical specifications of the MIZUDO PB1121D-001A-01-XX Gas Instantaneous Water Heater.

Specification	Value
Manufacturer	MIZUDO
Model Number	PB1121D-001A-01-XX
Item Weight	13.4 Kilograms
Product Dimensions (L x W x H)	33 x 17 x 52 cm
Power Source Type	Propane (LPG)
Flow Rate	11 Liters Per Minute
Gas Connection	1/2 inch
Cold/Hot Water Connection	1/2 inch
Heat Output	5 Kilowatts
Mounting Type	Wall
Special Features	LED indicator, Low NOx, ErP Class A
Minimum Water Pressure	0.1 bar

Energieeffizienzstufe A Geringe NOx-Emissionen



Figure 8: Energy efficiency label indicating an 'A' rating, highlighting the product's energy-saving performance and low NOx emissions.





A



21 6
kWh/annum GJ/annum



2017

812/2013

Figure 9: The official EU Energy Label for the MIZUDO water heater, model PB1121D-001A-01-XX, showing an 'A' energy class for water heating, 58 dB sound power level, 21 kWh annual electricity consumption, and 6 GJ annual fuel consumption. For more details, refer to the [EPREL database](#).

9. WARRANTY AND SUPPORT

MIZUDO is committed to product quality. If you experience any issues with the quality of your product, please contact

MIZUDO customer support. Support can be reached via phone, email, or message as per our warranty policy. Please refer to your purchase documentation for specific warranty terms and contact details.