

MCZ 4012062

MCZ NTC 4012062 Water Probe Instruction Manual

Original Replacement Part for MCZ Pellet Stoves

1. INTRODUCTION

This document provides comprehensive instructions for the MCZ NTC 4012062 Water Probe. This component is an original replacement part designed for specific MCZ pellet stove models. It is crucial to read and understand these instructions before attempting any installation or maintenance.

2. PRODUCT OVERVIEW

The NTC (Negative Temperature Coefficient) water probe is a critical sensor responsible for accurately measuring the water temperature within your MCZ pellet stove's hydronic system. This temperature data is essential for the stove's control unit to regulate heating output, ensure efficient operation, and maintain safety parameters. Proper functioning of this probe is vital for the overall performance of your pellet stove.



Image 1: The MCZ NTC 4012062 Water Probe. This image displays the probe with its sensor tip and connecting wires, terminating in a white connector.

3. COMPATIBILITY

The MCZ NTC 4012062 Water Probe is compatible with the following MCZ pellet stove models:

- Aki Hydromatic 16 M1, Aki Hydromatic 24 M1
- Club Hydromatic 16 kW, Club Hydromatic 16 M1, Club Hydromatic 24 ACS M1, Club Hydromatic 24 kW, Club Hydromatic 24 M1, Club Hydromatic/S 24 kW

- Ego Hydromatic 12, Ego Hydromatic 12 M1
- Jazz Hydromatic 30 ACS H1, Jazz Hydromatic 30 H1, Jazz Hydromatic 30 M1
- Musa Hydromatic 16 kW, Musa Hydromatic 16 M1, Musa Hydromatic 24 kW, Musa Hydromatic 24 M1, Musa Hydromatic/S 24 kW
- Performa 15 HQ Easy Clean H1, Performa 25 HQ Easy Clean H1, Performa 30 HQ Easy Clean H1, Performa 35 HQ Easy Clean H1
- Selecta 15 HQ S1, Selecta 20 HQ S1, Selecta 25 HQ ACS S1, Selecta 25 HQ S1, Selecta 35 HQ S1
- Star Hydromatic 12, Star Hydromatic 12 M1
- Suite Hydromatic 16 kW, Suite Hydromatic 16 M1, Suite Hydromatic 24 ACS M1, Suite Hydromatic 24 kW, Suite Hydromatic 24 M1, Suite Hydromatic/S 24 kW
- Thea Hydro 16 S1, Thea Hydro 23 S1
- Vivo 90 Hydro 16 M1, Vivo 90 Hydro 24 M1

Always verify the compatibility with your specific stove model before installation. Refer to your stove's original manual for detailed part diagrams.

4. SETUP AND INSTALLATION

Warning: Installation should only be performed by qualified personnel or an authorized service technician. Disconnect the pellet stove from the main power supply before beginning any installation or maintenance procedures. Failure to do so may result in electric shock, injury, or damage to the appliance.

1. **Safety First:** Ensure the pellet stove is completely cooled down and disconnected from the electrical supply.
2. **Locate Existing Probe:** Identify the location of the existing water probe in your pellet stove's hydronic system. This is typically found in a dedicated port or housing connected to the water circuit.
3. **Drain System (if necessary):** Depending on the probe's location, it may be necessary to partially or fully drain the stove's water system to prevent leaks during removal. Consult your stove's specific manual for draining procedures.
4. **Remove Old Probe:** Carefully disconnect the electrical connector from the old probe. Then, unscrew or unclip the old probe from its housing. Be prepared for any residual water.
5. **Install New Probe:** Insert the new MCZ NTC 4012062 Water Probe into the designated port. Ensure it is securely fastened to prevent leaks.
6. **Connect Electrically:** Reconnect the electrical connector to the new probe. Ensure a firm and proper connection.
7. **Refill and Bleed System (if necessary):** If the water system was drained, refill it according to your stove's manual and bleed any air from the system.
8. **Test:** Reconnect the stove to the power supply and perform a test run to ensure the probe is functioning correctly and there are no leaks. Monitor the water temperature readings on the stove's display.

5. OPERATING PRINCIPLES

The NTC water probe operates by changing its electrical resistance in response to temperature variations. As the water temperature in the pellet stove's hydronic system changes, the probe's resistance changes accordingly. This change in resistance is then measured by the stove's control board, which translates it into a precise temperature reading. This information is crucial for:

- **Temperature Regulation:** Maintaining the desired water temperature for heating.
- **Safety:** Preventing overheating or freezing of the water system.
- **Efficiency:** Optimizing fuel consumption based on heating demand.

No direct user operation is required for the probe itself; its function is automatic and integrated into the stove's control system.

6. MAINTENANCE

The MCZ NTC 4012062 Water Probe is designed for durability and reliability. Regular maintenance of the probe itself is minimal, but it is important to ensure the overall health of the pellet stove's hydronic system.

- **Visual Inspection:** During routine stove maintenance, visually inspect the probe and its wiring for any signs of damage, corrosion, or loose connections.
- **System Cleanliness:** Ensure the water in the hydronic system is clean and free of debris, which could potentially affect the probe's accuracy or cause blockages. Follow your stove's manual for recommended system flushing intervals.
- **Professional Check:** It is recommended to have the probe's functionality checked by a qualified technician during annual pellet stove servicing.

7. TROUBLESHOOTING

If your pellet stove displays error codes related to water temperature or exhibits inconsistent heating, the water probe might be a contributing factor. Here are some general troubleshooting steps:

- **Check Connections:** Ensure the probe's electrical connector is securely attached and free from corrosion.
- **Inspect Wiring:** Look for any visible damage to the probe's wiring, such as cuts or pinches.
- **Verify Water Level/Flow:** Ensure the pellet stove's hydronic system has adequate water pressure and flow. Low water levels or blockages can lead to incorrect temperature readings.
- **Consult Stove Manual:** Refer to your specific MCZ pellet stove's instruction manual for error codes related to water temperature and their recommended solutions.
- **Professional Diagnosis:** If issues persist, contact a qualified MCZ service technician. They have specialized tools to test the probe's resistance and diagnose complex system faults.

Note: Do not attempt to repair a faulty probe. Replace it with an original MCZ NTC 4012062 Water Probe if it is determined to be defective.

8. SPECIFICATIONS

Attribute	Detail
Manufacturer	MCZ
Part Number	4012062
Product Type	NTC Water Probe
Application	Pellet Stoves (Hydronic Models)

Package Dimensions	5 x 1 x 1 cm
Package Weight	200 g
Batteries Required	No
First Available Date	September 18, 2021

9. WARRANTY AND SUPPORT

As an original MCZ spare part, this NTC water probe is manufactured to high-quality standards. For specific warranty information, please refer to the warranty terms provided with your original MCZ pellet stove or contact an authorized MCZ dealer. For technical support or further inquiries regarding this part or other MCZ compatible spare parts, please contact your local MCZ service center or authorized reseller. You can find more information and contact details on the official [MCZ website](#).

© 2023 MCZ. All rights reserved. This manual is for informational purposes only.