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## Cloudpower K3FZH5CBBH9OXNWXFQA9VX

# Electric Fire Transducer Glass Disk User Manual

Model: K3FZH5CBBH9OXNWXFQA9VX | Brand: Cloudpower

## 1. Product Overview

The Cloudpower Electric Fire Transducer Glass Disk is a replacement component designed to restore or enhance the flame and smoke effect in compatible electric fireplaces. This transducer is crucial for generating the mist that simulates a realistic fire ambiance without actual flames.




Figure 1.1: The Electric Fire Transducer Glass Disk with its power cable.

## 2. Key Features

- **Compatible Replacement:** Specifically designed for electric fireplaces, ensuring a precise fit and optimal performance.
- **High-Quality Construction:** Manufactured from durable materials for extended reliability and consistent operation.
- **Easy Installation:** Includes a removal tool to facilitate a straightforward replacement process.
- **Versatile Compatibility:** Compatible with a wide range of electric fireplace models.
- **Enhances Ambiance:** Essential for creating the signature flame and smoke effect, adding warmth and atmosphere.

## 3. Compatible Models

This transducer is compatible with various electric fireplace models, including but not limited to:

- RTOPC 0, RTOPW20, RTOPI20BR, RTOPI20CH
- BBK20 (Series A-D, Series E)
- BRG20 (Series A)
- DNV20CH (Series A-Onward), DNV20AB (Series A-C), DNV20BL (Series A-Onwards), DNV20BR (Series A-C)
- MFD20 (Series A)
- OKT20 (Series A)
- RDY20 (Series A-D, Series E)
- SCR20 (Series A, Series K)
- TAH20 (Series A, Series E)
- WBK20 (Series A), WMR20 (Series A), ALM20 (Series A), AUB20 (Series A)
- CAS600, CAS400NHLL, CAS400HLL, CAS600NH
- SVT20 (Series A)

It is also compatible with Ultransmit M-011B MFD 201312 DC24V 500mA or M011B-1C 4414#CHM4312 specifications.

## 4. Setup and Installation

Follow these steps to install or replace the transducer disk:

1. **Safety First:** Ensure the electric fireplace is completely unplugged from the power source before beginning any installation or maintenance.
2. **Access the Transducer Area:** Refer to your electric fireplace's specific manual to locate and access the transducer compartment, typically near the water reservoir.
3. **Remove Old Transducer (if applicable):** Use the provided removal tool to carefully detach the existing transducer disk. Handle with care to avoid damage to surrounding components.
4. **Insert New Transducer:** Place the new Cloudpower transducer disk into the designated slot. Ensure it is seated firmly and correctly.
5. **Optimal Water Depth:** For best results and the most realistic flame effect, ensure the transducer is positioned approximately **5cm (2 inches) deep** in the water within the reservoir. Adjust water level as needed.
6. **Secure and Reassemble:** Reassemble any covers or panels removed during the process.
7. **Test:** Plug the electric fireplace back into the power source and test the flame and smoke effect.




Figure 4.1: Dimensions of the transducer, showing a width of 38mm, a body height of 25mm, and a total height of 47mm including the mist outlet.

## 5. Operating Principles

The electric fire transducer operates by using ultrasonic vibrations to create a fine mist from water. This mist, when illuminated by internal lights within the electric fireplace, creates the illusion of smoke and flames. The transducer's glass disk vibrates at a high frequency, atomizing the water into a cool, harmless vapor. This vapor then rises and interacts with the light, producing the visual effect of a burning fire.



Figure 5.1: The transducer integrated into a decorative landscape, demonstrating its mist-generating capability.



Figure 5.2: The transducer shown in a lush, mossy environment, highlighting its use in creating atmospheric mist.

## 6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your transducer disk:

- **Clean Water:** Always use clean, distilled water in the fireplace's reservoir to prevent mineral buildup on the transducer disk. Hard water can significantly reduce the lifespan and efficiency of the disk.
- **Regular Cleaning:** Periodically inspect the transducer disk for any mineral deposits or debris. If buildup is present, gently clean the surface of the disk with a soft cloth or cotton swab moistened with a mild descaling solution (e.g., white vinegar diluted with water). *Do not use abrasive cleaners or tools.*
- **Avoid Submerging the Unit:** While the disk itself is designed for water contact, ensure the electrical connections and the main body of the transducer unit are not fully submerged beyond the recommended water level.
- **Check Water Level:** Ensure the water reservoir is always adequately filled to maintain the 5cm optimal depth for the transducer. Operating the transducer without sufficient water can cause damage.



Figure 6.1: A detailed view of the transducer's glass disk and the robust cable connection, emphasizing areas for cleaning and inspection.

## 7. Troubleshooting

If you experience issues with the flame or smoke effect, consider the following:

| Problem | Possible Cause | Solution |
|---|---|---|
| No mist/flame effect | Insufficient water level; Mineral buildup on disk; Loose connection; Faulty transducer. | Ensure water is at optimal 5cm depth; Clean transducer disk; Check power connection; Replace transducer if damaged. |

| Problem | Possible Cause | Solution |
|---|---|---|
| Weak mist output | Mineral buildup; Incorrect water depth; Aging disk. | Clean transducer disk thoroughly; Adjust water level to 5cm; Consider replacing the disk if it's old. |
| Unusual noise | Transducer not seated correctly; Debris in water. | Ensure transducer is firmly in place; Clean water reservoir and disk. |

If troubleshooting steps do not resolve the issue, contact Cloudpower customer support or a qualified technician.

## 8. Specifications

| Attribute | Detail |
|---|---|
| Product Dimensions | 1.97 x 1.97 x 1.18 inches (approx. 5cm x 5cm x 3cm) |
| Item Weight | 4.8 ounces (approx. 136 grams) |
| Manufacturer | Cloudpower |
| Model Number | K3FZH5CBBH9OXNWXFQA9VX |
| ASIN | B0DQ4LXH59 |
| First Available | December 11, 2024 |
| Power Requirement (Typical) | DC24V 500mA (for Ultransmit M-011B MFD 201312) |




Figure 8.1: The underside of the transducer, displaying its model number (RM-1220A) and power specifications (DC24V 650mA).

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For support, please refer to your electric fireplace's main user manual or contact Cloudpower customer service.

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