

Philips MHC70/U/M/4K

Philips MHC70/U/M/4K ALTO 70W Metal Halide Light Bulb User Manual

1. INTRODUCTION

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of your Philips MHC70/U/M/4K ALTO 70 Watt Metal Halide Light Bulb. Please read this manual thoroughly before use and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Metal Halide lamps operate at high temperatures and pressures. Improper handling or installation can result in serious injury or property damage. Always observe the following safety precautions:

- **Power Disconnection:** Always ensure the power supply to the fixture is turned OFF and locked out before installing, removing, or servicing the lamp.
- **Proper Fixture:** Use only in enclosed fixtures designed for Metal Halide lamps, equipped with appropriate ballasts and protective lenses.
- **Lamp Handling:** Handle the lamp by its base, not the glass envelope. Avoid touching the glass with bare hands, as oils can cause hot spots and reduce lamp life.
- **Eye Protection:** Do not look directly at an operating lamp. Metal halide lamps emit strong ultraviolet (UV) radiation.
- **Disposal:** Dispose of lamps according to local regulations. Metal halide lamps contain mercury.
- **Cool Down:** Allow the lamp to cool completely before handling.
- **Ballast Compatibility:** This lamp requires a compatible 70W Metal Halide ballast for proper operation. Do not operate without a ballast or with an incompatible ballast.

3. PRODUCT OVERVIEW

The Philips MHC70/U/M/4K ALTO is a 70 Watt MasterColor Ceramic Metal Halide lamp designed for

general lighting applications where high efficiency and good color rendering are desired. It features an ED17 bulb shape and an E26 medium screw base.



Figure 1: Philips MHC70/U/M/4K ALTO 70 Watt Metal Halide Light Bulb. This image shows a clear, elongated bulb with an E26 medium screw base. The internal arc tube and electrodes are visible within the glass envelope.

4. SETUP AND INSTALLATION

Follow these steps for proper installation:

1. **Verify Compatibility:** Ensure your fixture and ballast are rated for 70W Metal Halide lamps with an E26 base.
2. **Power Off:** Turn off the power supply to the fixture at the circuit breaker or fuse box.
3. **Allow Cooling:** If replacing an existing lamp, allow it to cool completely before removal.
4. **Remove Old Lamp (if applicable):** Unscrew the old lamp counter-clockwise from the socket.
5. **Install New Lamp:** Carefully screw the Philips MHC70/U/M/4K ALTO lamp clockwise into the E26 socket until it is finger-tight. Do not overtighten.
6. **Secure Fixture:** Ensure the fixture's protective lens or cover is securely in place before restoring power.
7. **Restore Power:** Turn on the power supply to the fixture.

Note: Metal halide lamps require a warm-up period to reach full brightness and color stability. This can take several minutes.

5. OPERATING INSTRUCTIONS

Operating this lamp is straightforward once installed correctly:

- **Turning On:** Activate the power switch connected to the fixture. The lamp will strike and begin its warm-up cycle.
- **Warm-up Period:** The lamp will gradually increase in brightness and color temperature over several minutes until it reaches its stable operating state.
- **Turning Off:** Deactivate the power switch. The lamp will extinguish.
- **Restrike Time:** If the lamp is turned off, it requires a cool-down period (typically 5-15 minutes) before it can be reignited. Attempting to restrike a hot lamp immediately may prevent it from lighting or reduce its lifespan.

6. MAINTENANCE

Minimal maintenance is required for this lamp:

- **Cleaning:** Ensure the power is off and the lamp is cool. Gently wipe the outer glass envelope with a clean, dry, lint-free cloth if dust or debris accumulates. Do not use abrasive cleaners.
- **Replacement:** Replace the lamp when it reaches the end of its rated life, shows signs of flickering, or fails to ignite. Always follow the installation steps when replacing.
- **Fixture Inspection:** Periodically inspect the fixture, wiring, and ballast for any signs of wear or damage.

7. TROUBLESHOOTING

If the lamp does not operate as expected, consider the following:

- **Lamp Does Not Light:**
 - Check if the power supply to the fixture is on.
 - Ensure the lamp is securely screwed into the socket.
 - Verify the ballast is functioning correctly and is compatible with a 70W Metal Halide lamp.
 - If the lamp was recently turned off, allow for the cool-down/restrike period.
 - The lamp may have reached the end of its life and requires replacement.
- **Flickering or Dim Light:**
 - This can indicate the lamp is nearing the end of its operational life.
 - Ensure stable power supply.
 - Check for proper ballast operation.
- **Lamp Cycles On and Off (Cycling):**
 - This is a common sign that a metal halide lamp is at the end of its life. Replace the lamp.
 - Could also indicate an issue with the ballast or fixture overheating.

If troubleshooting steps do not resolve the issue, consult a qualified electrician or contact Philips customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	Philips
Model Number	MHC70/U/M/4K
Wattage	70 Watts
Light Type	Metal Halide (HID)
Bulb Shape Size	ED17
Bulb Base	E26 (Medium Screw)
Color Temperature	4000 Kelvin (Cool White)
Brightness	5900 Lumens

Feature	Detail
Voltage	100 Volts (Requires compatible ballast)
Average Life	20,000 Hours
Material	Ceramic, Metal
Indoor/Outdoor Usage	Indoor (in appropriate enclosed fixtures)
Color Rendering Index (CRI)	80

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Philips MHC70/U/M/4K ALTO 70W Metal Halide Light Bulb, please refer to the documentation provided with your purchase or visit the official Philips lighting website. You may also contact Philips customer service directly for assistance.

Philips Lighting Company: www.lighting.philips.com