

Technical Precision DR/2010-AZ-DQWY-3

Technical Precision Replacement Bulb for HACH DR/2010 Spectrophotometer

User Manual

1. INTRODUCTION

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of your Technical Precision replacement light bulb for the HACH DR/2010 Spectrophotometer. Please read this manual thoroughly before attempting any installation or use to ensure proper function and safety.

2. PRODUCT OVERVIEW

The Technical Precision replacement bulb is designed to be a direct substitute for the original light source in the HACH DR/2010 Spectrophotometer. This high-efficiency bulb ensures accurate readings and consistent performance for your analytical instrument.



Figure 2.1: Technical Precision Replacement Bulb. This image shows the compact design of the replacement bulb, suitable for the HACH DR/2010 Spectrophotometer.

Key Features:

- Direct replacement for HACH DR/2010 light source.
- High efficiency for optimal performance.
- Instant on functionality.

3. SAFETY INFORMATION

Always observe the following safety precautions when handling and installing the replacement bulb:

- **Disconnect Power:** Ensure the HACH DR/2010 Spectrophotometer is completely powered off and unplugged from the electrical outlet before attempting any installation or maintenance.

- **Allow Cooling:** If replacing an old bulb, allow sufficient time for the old bulb to cool down completely before touching it. Hot bulbs can cause severe burns.
- **Handle with Care:** Avoid touching the glass part of the new bulb directly with bare hands. Oils from your skin can create hot spots and reduce bulb life. Use a clean cloth or gloves.
- **Proper Disposal:** Dispose of old bulbs according to local regulations, especially if they contain hazardous materials.
- **Electrical Safety:** Do not operate the instrument with damaged wiring or if the bulb socket appears compromised.

4. SETUP AND INSTALLATION

Follow these steps to safely install the Technical Precision replacement bulb into your HACH DR/2010 Spectrophotometer:

1. **Power Off and Unplug:** Turn off the HACH DR/2010 Spectrophotometer and unplug its power cord from the wall outlet.
2. **Access Bulb Compartment:** Refer to your HACH DR/2010 Spectrophotometer's original manual for instructions on how to safely access the light bulb compartment. This usually involves opening a panel or cover.
3. **Remove Old Bulb:** Carefully remove the old bulb. It may require a gentle twist or pull, depending on the socket type. If the bulb is hot, use protective gloves.
4. **Install New Bulb:** Holding the new Technical Precision bulb with a clean cloth or gloves (to avoid touching the glass), align its pins or base with the socket in the instrument. Gently insert and secure the bulb. Do not force it.
5. **Close Compartment:** Securely close the bulb compartment cover or panel, ensuring all latches or screws are fastened.
6. **Reconnect Power:** Plug the spectrophotometer's power cord back into the electrical outlet.

5. OPERATING INSTRUCTIONS

Once the replacement bulb is installed, the operation of your HACH DR/2010 Spectrophotometer remains unchanged. The bulb functions as the light source for the instrument's analytical processes.

1. **Power On:** Turn on the HACH DR/2010 Spectrophotometer using its power switch.
2. **Warm-up Period:** Allow the instrument to complete its standard warm-up and self-calibration cycle as specified in the HACH DR/2010 manual.
3. **Perform Measurements:** Proceed with your standard measurement procedures as you normally would. The new bulb will provide the necessary light for accurate readings.

6. MAINTENANCE

The Technical Precision replacement bulb is designed for long-lasting performance with minimal maintenance. However, adhering to these guidelines can help maximize its lifespan:

- **Cleanliness:** Keep the spectrophotometer's environment clean and free of dust, which can accumulate on the bulb or optical components and affect performance.
- **Avoid Frequent On/Off Cycles:** While the bulb has an instant-on feature, excessive on/off cycling can reduce its overall lifespan.
- **Gentle Handling:** When handling the bulb during installation or any future maintenance, always use a clean, lint-free cloth or gloves to prevent contamination of the glass surface.

7. TROUBLESHOOTING

If you encounter issues after installing the replacement bulb, consider the following:

Problem	Possible Cause	Solution
Bulb does not light up	<ul style="list-style-type: none">• Not properly seated in socket• Spectrophotometer not powered on• Power cord unplugged• Defective bulb (rare)	<ul style="list-style-type: none">• Ensure bulb is fully inserted and secured.• Verify spectrophotometer is powered on.• Check power cord connection.• If all else fails, contact Technical Precision support.
Inconsistent readings	<ul style="list-style-type: none">• Bulb surface contaminated• Instrument calibration issue	<ul style="list-style-type: none">• Carefully clean bulb surface with a lint-free cloth (after cooling and disconnecting power).• Perform instrument calibration as per HACH DR/2010 manual.

8. SPECIFICATIONS

Feature	Detail
Brand	Technical Precision
Model Name	DR/2010-AZ-DQWY-3
Light Type	Hach (compatible)
Special Feature	High Efficiency, Instant On
Wattage	1 watts
Bulb Shape Size	T (Tubular)
Material	Copper
Indoor/Outdoor Usage	Indoor
Power Source	Battery Powered (as per instrument)
Item Package Quantity	1
Bulb Length	4 Inches
ASIN	B06ZXT67MF

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Technical Precision replacement bulb, please refer to the documentation provided at the time of purchase or contact Technical Precision directly. Support for this product is provided by Technical Precision.

You can visit the Technical Precision store for more information: [Technical Precision Store](#)

