

## ProTech QT2000

# Protech QT2000 QwikCheck Acid Test Kit Instruction Manual

Model: QT2000

## 1. INTRODUCTION

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The Protech QT2000 QwikCheck Acid Test Kit is designed for rapid detection of inorganic acids in refrigerants and oils. This kit provides a quick and reliable method to determine the presence of acid, helping to prevent system damage and ensure compliance with industry standards such as ARI-700 and EPA venting regulations. It is compatible with all refrigerants and oils.

## 2. SAFETY INFORMATION

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Always prioritize safety when working with refrigerants and chemicals. Follow these guidelines:

- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when handling refrigerants and the test kit.
- Perform tests in a well-ventilated area.
- Avoid direct contact with the test solution. In case of contact, rinse thoroughly with water.
- Keep the kit out of reach of children and pets.
- Dispose of used test kits and refrigerant samples according to local environmental regulations.

## 3. PRODUCT OVERVIEW

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The Protech QT2000 QwikCheck Acid Test Kit consists of a single-use vial containing a specialized reagent. The vial is compact and designed for easy handling and quick testing.

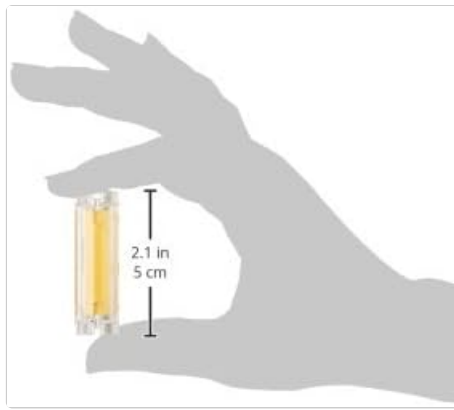


Image: The Protech QT2000 QwikCheck Acid Test Kit vial, demonstrating its compact size for ease of use.

## 4. SETUP

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No extensive setup is required for the QT2000 kit. Ensure you have a clean, dry surface to work on and access to the refrigerant or oil sample to be tested.

1. Ensure the refrigerant system is safely depressurized or the oil sample is accessible.
2. Carefully remove the test vial from its packaging.
3. Do not open the vial until ready to perform the test.

## 5. OPERATING INSTRUCTIONS

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Follow these steps to perform an acid test:

1. **Collect Sample:** Obtain a small sample of the refrigerant or oil from the system. Ensure the sample is representative and free from gross contaminants.
2. **Open Vial:** Carefully twist or break open the cap of the QT2000 test vial.
3. **Introduce Sample:** Add a few drops of the refrigerant or oil sample into the test vial. The exact amount is not critical, but ensure enough to interact with the reagent.
4. **Observe Color Change:** Within two seconds, observe the color of the solution in the vial.
5. **Interpret Results:** Refer to the 'Interpreting Results' section below for guidance.
6. **Dispose:** Properly dispose of the used vial and sample according to environmental regulations.

## 6. INTERPRETING RESULTS

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The QT2000 QwikCheck Acid Test Kit provides a clear visual indication of acid presence:

- **No Color Change (Remains Yellow/Original Color):** This indicates that no inorganic acids are present above the ARI-700 limit of 1 PPM. The system is likely free of harmful acid contamination.
- **Color Change (Changes from Yellow to Red/Pink):** This indicates the presence of inorganic acids above the ARI-700 limit of 1 PPM. Further investigation and corrective action, such as system flushing or oil replacement, may be necessary.

## 7. MAINTENANCE

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The Protech QT2000 QwikCheck Acid Test Kit is a single-use item and does not require maintenance. Store unused kits in a cool, dry place away from direct sunlight to ensure reagent stability.

## 8. TROUBLESHOOTING

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If you encounter issues or unexpected results:

- **No Color Change with Suspected Acid:** Ensure the sample was properly collected and introduced into the vial. Verify the kit has not expired.
- **Unclear Color Change:** Ensure adequate lighting for observation. If in doubt, repeat the test with a new vial.
- **Kit Damage:** Do not use a kit if the vial appears damaged or compromised.

## 9. SPECIFICATIONS

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Specification	Detail
Model Number	QT2000
Test Type	Inorganic Acid Test
Test Time	Two seconds
Detection Limit	1 PPM (ARI-700)
Compatibility	All refrigerants & oils
Item Weight	0.353 ounces
Product Dimensions	1 x 1 x 5 inches

## 10. WARRANTY

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Unless otherwise noted, all items carry a one-year limited warranty from the date of purchase. Please retain your proof of purchase for warranty claims.

## 11. SUPPORT

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For further assistance, technical support, or questions regarding the Protech QT2000 QwikCheck Acid Test Kit, please contact your supplier or the manufacturer directly. Refer to the product packaging for contact details.