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Inficon 508-202-G1

Inficon D-TEK Pro Refrigerant Leak Detector User Manual

Model: 508-202-G1

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1. INTRODUCTION

The Inficon D-TEK Pro Refrigerant Leak Detector is designed for precise and rapid detection of refrigerant leaks. This device offers high sensitivity and an all-in-one Pro Mode for efficient leak identification. This manual provides essential information for the proper setup, operation, and maintenance of your D-TEK Pro.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury and damage to the device:

- Read all instructions before operating the device.
- Use the device only as described in this manual.
- Do not expose the device to extreme temperatures or moisture.
- Ensure proper ventilation when working with refrigerants.
- Wear appropriate personal protective equipment (PPE) such as gloves and eye protection.
- Do not attempt to service the device beyond what is described in the maintenance section. Refer all other servicing to qualified personnel.

3. WHAT'S IN THE BOX

Verify that all items are present upon unpacking:

- (1) D-TEK Pro Refrigerant Leak Detector
- (1) Soft case with shoulder strap
- (1) Spare filters
- (1) Phone holder

- (1) Charging cable

4. SETUP

4.1 Charging the Device

The D-TEK Pro is powered by a rechargeable battery. Before first use, fully charge the device.

1. Connect the provided charging cable to the charging port on the D-TEK Pro.
2. Plug the other end of the charging cable into a suitable power source.
3. The charging indicator on the device will illuminate. Allow sufficient time for a full charge.

4.2 Attaching the Phone Holder

The included phone holder allows for convenient mobile device integration.

1. Locate the attachment point for the phone holder on the D-TEK Pro.
2. Securely attach the phone holder according to its design.
3. Place your mobile device into the holder, ensuring it is stable.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- To power on, press and hold the power button until the display illuminates.
- To power off, press and hold the power button until the device shuts down.

5.2 Using Pro Mode for Leak Detection

The D-TEK Pro features an all-in-one Pro Mode that combines cloud hunting and pinpointing capabilities, allowing for efficient leak location.

1. Ensure the device is powered on and in Pro Mode (refer to the display for mode indication).
2. Move the sensor probe slowly around suspected leak areas. The device's superior airflow allows for detection from a greater distance.
3. The D-TEK Pro will indicate the presence of refrigerants with high sensitivity, detecting down to 0.1 ppm.
4. Follow the increasing readings to pinpoint the exact leak source.



Figure 1: The Inficon D-TEK Pro being used to inspect a refrigeration unit. The display shows a 0.0 ppm reading, indicating no refrigerant detected at the current location. The device is held by a user's hand, demonstrating its portability and ease of use in an industrial setting.

5.3 Refrigerant Compatibility

The D-TEK Pro is designed to detect a wide range of refrigerants, including:

- CFCs (Chlorofluorocarbons)
- HCFCs (Hydrochlorofluorocarbons)
- HFCs (Hydrofluorocarbons)
- HFOs (Hydrofluoroolefins)
- Blends including A2Ls

5.4 Mobile App Integration

Download the D-TEK Pro mobile app to enhance your leak detection workflow.

- **Customer Reports:** Generate detailed reports with photos and ppm tracking.

- **GPS Tracking:** Confirm job location with integrated GPS functionality.



Figure 2: The Inficon D-TEK Pro connected to a smartphone, showcasing the mobile application's interface. This setup allows users to view real-time leak detection data, generate reports, and utilize GPS tracking for job site verification.

6. MAINTENANCE

6.1 General Care and Cleaning

To ensure optimal performance and longevity of your D-TEK Pro:

- Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Keep the sensor probe clean and free from debris.
- Store the device in its soft case when not in use to protect it from dust and physical damage.

6.2 Filter Replacement

The D-TEK Pro is designed for low maintenance, requiring no purging and no charcoal filters. However, spare filters are provided for specific applications or if the existing filter becomes visibly soiled or damaged.

1. Locate the filter housing on the device.
2. Carefully remove the old filter.
3. Insert a new spare filter, ensuring it is seated correctly.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your D-TEK Pro.

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery.	Charge the device using the provided charging cable.
Inaccurate or inconsistent readings.	Sensor probe is dirty or damaged; environmental interference.	Clean the sensor probe. Ensure proper environmental conditions. If issue persists, contact support.
Mobile app not connecting.	Bluetooth issue; app not updated.	Ensure Bluetooth is enabled on both devices. Update the D-TEK Pro app to the latest version.

8. SPECIFICATIONS

Feature	Detail
Model Number	508-202-G1
Item Weight	3 pounds
Package Dimensions	15 x 12 x 4 inches
Display Type	LCD, LED
Power Source	Rechargeable Battery
Sensitivity	0.1 ppm resolution
Detected Refrigerants	CFCs, HCFCs, HFCs, HFOs, and blends including A2Ls

9. WARRANTY INFORMATION

The Inficon D-TEK Pro Refrigerant Leak Detector comes with a **2-year warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For warranty claims or detailed terms and conditions, please refer to the official Inficon website or contact customer support.

10. CUSTOMER SUPPORT

For technical assistance, troubleshooting not covered in this manual, or general inquiries, please contact Inficon customer support.

- **Online Resources:** Visit the official [Inficon Store on Amazon](#) for product information and updates.

- **Contact Information:** Refer to the Inficon official website for direct contact details (phone, email).