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Four Seasons 83718

Four Seasons 83718 Steel Filter Drier User Manual

Model: 83718

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Four Seasons 83718 Steel Filter Drier. The filter drier is a critical component in an automotive air conditioning (AC) system, designed to remove moisture and contaminants from the refrigerant, ensuring efficient system performance and longevity.

2. PRODUCT OVERVIEW





Figure 2.1: Four Seasons 83718 Steel Filter Drier. This image shows a black cylindrical steel filter drier with multiple ports on top, designed for automotive air conditioning systems.

The Four Seasons 83718 Steel Filter Drier is engineered to meet the demands of automotive AC systems. Its primary function is to protect the AC system from moisture and debris, which can cause corrosion, blockages, and compressor failure.

2.1 What's in the Box

- One (1) Four Seasons 83718 Steel Filter Drier

3. SAFETY INFORMATION

Working with automotive air conditioning systems involves high-pressure refrigerants and specialized tools. Improper handling can lead to serious injury or damage to the vehicle. Always observe the following safety precautions:

- **Professional Installation Recommended:** It is highly recommended that installation and service be performed by a certified automotive AC technician.

- **Eye Protection:** Always wear appropriate eye protection to prevent refrigerant or debris from entering the eyes.
- **Hand Protection:** Wear gloves to protect hands from cold refrigerant and sharp edges.
- **Refrigerant Handling:** Refrigerants are under high pressure and can cause frostbite or other injuries upon contact. Never vent refrigerants into the atmosphere; use proper recovery equipment.
- **System Pressure:** Ensure the AC system is fully depressurized and evacuated before disconnecting any components.
- **Electrical Safety:** Disconnect the vehicle's battery before working on electrical components of the AC system.
- **Flammable Materials:** Keep ignition sources away from refrigerants, as some may be flammable.

4. SETUP AND INSTALLATION

The filter drier should be replaced whenever the AC system is opened for service, especially after compressor replacement or a major leak repair. This ensures the removal of any moisture or contaminants that may have entered the system.

4.1 Installation Steps

1. **Refrigerant Recovery:** Using an approved AC recovery machine, recover all refrigerant from the vehicle's AC system.
2. **Locate and Remove Old Drier:** Identify the existing filter drier (also known as a receiver drier) in the AC system. Disconnect the lines attached to it, being careful to contain any residual refrigerant or oil.
3. **Install New Drier:** Remove the protective caps from the new Four Seasons 83718 Steel Filter Drier just before installation. Install new O-rings on the AC lines if required and lubricate them with appropriate AC system oil. Connect the lines to the new drier, ensuring proper orientation and tightening to manufacturer specifications.
4. **Evacuate System:** Connect a vacuum pump to the AC system and evacuate it to a deep vacuum (typically 29.92 inHg or 750 microns) for at least 30-60 minutes to remove all air and moisture.
5. **Leak Test:** After evacuation, close the manifold gauges and observe the vacuum for at least 15-30 minutes. A stable vacuum indicates a leak-free system. If the vacuum drops, identify and repair the leak before proceeding.
6. **Recharge Refrigerant:** Recharge the AC system with the correct type and amount of refrigerant and AC oil specified by the vehicle manufacturer.
7. **Test System:** Start the vehicle and test the AC system for proper operation and cooling performance.

Note: Always refer to your vehicle's specific service manual for detailed instructions and torque specifications.

5. OPERATING PRINCIPLES

The Four Seasons 83718 Steel Filter Drier serves several vital functions in a vehicle's AC system:

- **Moisture Removal:** It contains a desiccant material (drying agent) that absorbs moisture from the refrigerant. Moisture in an AC system can lead to corrosion, acid formation, and freezing, which can cause blockages and system failure.
- **Filtration:** A filter element inside the drier traps debris, metal shavings, and other contaminants that may be present in the refrigerant, preventing them from circulating and damaging other components, especially the expansion valve and compressor.
- **Refrigerant Storage:** It acts as a temporary storage reservoir for liquid refrigerant, ensuring a continuous supply to the expansion valve under varying operating conditions.
- **Oil Separation:** Some driers also assist in separating oil from the refrigerant, returning it to the compressor for lubrication.

By performing these functions, the filter drier helps maintain the purity and efficiency of the refrigerant, protecting the entire AC system.

6. MAINTENANCE

The filter drier is a maintenance item and has a finite lifespan. Its desiccant material can become saturated with moisture over time, reducing its effectiveness. It is generally recommended to replace the filter drier:

- Whenever the AC system is opened for any repair (e.g., compressor replacement, hose repair, evaporator or condenser replacement).
- If the system has been exposed to the atmosphere for an extended period.
- As part of a comprehensive AC system service, typically every 3-5 years, depending on vehicle manufacturer recommendations and operating conditions.

Regular inspection of AC system components for leaks or damage is also advised.

7. TROUBLESHOOTING

A failing or saturated filter drier can lead to various AC system problems. While professional diagnosis is always recommended, here are some common symptoms that may indicate a drier issue:

- **Poor Cooling Performance:** If the desiccant is saturated, moisture can freeze at the expansion valve, restricting refrigerant flow and reducing cooling efficiency.
- **Intermittent Cooling:** Similar to poor cooling, freezing moisture can cause cooling to be inconsistent.
- **High Head Pressure:** A clogged filter drier can restrict refrigerant flow, leading to abnormally high pressure on the high-side of the AC system.
- **Unusual Noises:** While less common, a severely restricted drier could potentially cause the compressor to work harder, leading to unusual noises.
- **Visible Corrosion or Leaks:** External damage or leaks around the drier itself.

If you experience any of these symptoms, consult a qualified automotive AC technician for diagnosis and repair.

8. SPECIFICATIONS

Feature	Detail
Brand	Four Seasons
Model	Steel Filter Drier
Item Model Number	83718
Item Weight	3 pounds
Product Dimensions	11.9 x 3.3 x 3.3 inches
Exterior	Machined
Manufacturer Part Number	83718

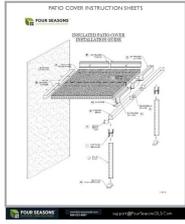
9. WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your Four Seasons 83718 Steel Filter Drier, please contact Four Seasons customer service directly or visit their official website. Keep your purchase receipt for warranty claims.

Contact information can typically be found on the product packaging or the manufacturer's official website.



Related Documents - 83718

 <p>The cover of the Four Seasons FS200 Owner's Manual features the brand logo at the top, a photograph of the FS200 unit, and the text 'Owner's Manual'.</p>	<p>Four Seasons FS200 Owner's Manual</p> <p>This owner's manual provides instructions for the Four Seasons FS200, a 4-in-1 combination heater, humidifier, air purifier, and fan. It includes important safety instructions, product features, specifications, assembly and use guide, cleaning and maintenance procedures, troubleshooting tips, and warranty information.</p>
 <p>The cover of the Four Seasons FS200 Heater, Humidifier, Air Purifier, and Fan Owner's Manual features the brand logo and a photograph of the FS200 unit.</p>	<p>Four Seasons FS200 Heater, Humidifier, Air Purifier, and Fan Owner's Manual</p> <p>Comprehensive owner's manual for the Four Seasons FS200, a 4-in-1 appliance combining a heater, humidifier, air purifier, and fan. Includes setup, operation, maintenance, troubleshooting, and warranty information.</p>
 <p>The cover of the Four Seasons LifeRoom Optima Installation Manual features the brand logo, the title 'LifeRoom Optima Installation Manual', and a photograph of a house with a patio cover.</p>	<p>Four Seasons LifeRoom Optima Installation Manual</p> <p>A comprehensive guide for installing the Four Seasons LifeRoom Optima patio cover, detailing steps for roof and frame assembly, sidewall framing, and screen installation.</p>
 <p>The cover of the Four Seasons WeatherStopper Insulated Patio Cover Installation Guide features the brand logo, the title 'INFO COVER INSTRUCTION SHEETS', and a technical diagram of the patio cover assembly.</p>	<p>Four Seasons WeatherStopper Insulated Patio Cover Installation Guide</p> <p>Comprehensive installation guide for the Four Seasons WeatherStopper Insulated Patio Cover, detailing component assembly, roof panel installation, gutter, fascia, and flashing setup.</p>
 <p>The cover of the Four Seasons 2025 Modern Slavery Statement: Commitment to Combating Forced Labour and Human Trafficking features the brand logo and the title 'FOUR SEASONS FOR GOOD'.</p>	<p>Four Seasons 2025 Modern Slavery Statement: Commitment to Combating Forced Labour and Human Trafficking</p> <p>An overview of Four Seasons' initiatives and policies to prevent modern slavery, forced labour, and child labour across its global operations and supply chains, including due diligence, risk management, and training efforts.</p>
 <p>The cover of the Four Seasons Hotel Austin Winter 2023 Activity Guide features a photograph of the hotel building and the title 'WINTER 2023 ACTIVITY GUIDE'.</p>	<p>Four Seasons Hotel Austin Winter 2023 Activity Guide</p> <p>Explore the Winter 2023 Activity Guide for Four Seasons Hotel Austin, featuring Ice Rodeo, festive dining, recreation, and wellness experiences.</p>