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- › [Four Seasons](#) /
- › [Four Seasons 64008 Parallel Flow Evaporator Core Instruction Manual](#)

Four Seasons 64008

Four Seasons 64008 Parallel Flow Evaporator Core Instruction Manual

Model: 64008

1. INTRODUCTION

This manual provides essential information for the proper installation, maintenance, and troubleshooting of your Four Seasons 64008 Parallel Flow Evaporator Core. This component is a critical part of your vehicle's air conditioning system, responsible for cooling the air before it enters the passenger cabin. For optimal performance and safety, please read these instructions thoroughly before proceeding with any installation or service.

2. 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:** Due to the complexity and safety risks associated with AC systems, installation by a certified automotive technician is strongly recommended.
- **Eye Protection:** Always wear appropriate eye protection (safety glasses or goggles) when working on the AC system.
- **Hand Protection:** Wear gloves to protect hands from sharp edges and chemicals.
- **Refrigerant Handling:** Refrigerants are under high pressure and can cause frostbite or other injuries. Never vent refrigerants into the atmosphere. Use proper recovery and recycling equipment.
- **Electrical Safety:** Disconnect the vehicle's battery before working on electrical components.
- **Hot Surfaces:** Engine components can be extremely hot. Allow the engine to cool before beginning work.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after handling.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before beginning installation.

- 1x Four Seasons 64008 Parallel Flow Evaporator Core

- (Additional components, if any, would be listed here by the manufacturer.)



Image 1: The Four Seasons 64008 Parallel Flow Evaporator Core. This image displays the core's fin and tube structure, designed for efficient heat exchange within the vehicle's air conditioning system.

4. SETUP AND INSTALLATION

The evaporator core is typically located inside the vehicle's dashboard, often within the HVAC (Heating, Ventilation, and Air Conditioning) housing. Installation requires significant disassembly of the dashboard and proper handling of the AC system. It is highly recommended that this procedure be performed by a qualified automotive service technician.

General Installation Steps (for qualified technicians):

1. **Recover Refrigerant:** Safely recover all refrigerant from the AC system using appropriate equipment.
2. **Disconnect Battery:** Disconnect the negative terminal of the vehicle's battery.
3. **Access Evaporator Housing:** Carefully remove dashboard components, trim, and the HVAC housing to gain access to the evaporator core. This step varies significantly by vehicle make and model.

4. **Disconnect Lines:** Disconnect the refrigerant lines from the old evaporator core. Be prepared for residual refrigerant or oil.
5. **Remove Old Core:** Extract the old evaporator core from its housing.
6. **Install New Core:** Install the Four Seasons 64008 Parallel Flow Evaporator Core into the HVAC housing, ensuring proper seating and alignment.
7. **Connect Lines:** Reconnect the refrigerant lines, replacing any O-rings or seals as necessary. Apply appropriate lubricant to O-rings.
8. **Reassemble:** Reassemble the HVAC housing and dashboard components.
9. **Evacuate System:** Evacuate the AC system using a vacuum pump to remove air and moisture. This step is crucial for system performance and longevity.
10. **Recharge System:** Recharge the AC system with the correct type and amount of refrigerant and PAG oil, according to the vehicle manufacturer's specifications.
11. **Leak Test:** Perform a thorough leak test to ensure all connections are sealed.
12. **Test System:** Start the vehicle and test the AC system for proper operation and cooling performance.

Refer to your vehicle's specific service manual for detailed disassembly and reassembly procedures.

5. OPERATING PRINCIPLES

The Four Seasons 64008 Parallel Flow Evaporator Core functions as a heat exchanger within the vehicle's air conditioning system. Liquid refrigerant enters the evaporator, absorbs heat from the air passing over its fins, and changes into a low-pressure gas. This process cools the air, which is then blown into the vehicle's cabin. The parallel flow design enhances efficiency by allowing refrigerant to flow through multiple paths simultaneously, optimizing heat transfer.

6. MAINTENANCE

While the evaporator core itself requires no routine user maintenance, the overall AC system benefits from regular checks to ensure its longevity and efficiency:

- **Cabin Air Filter:** Regularly inspect and replace the cabin air filter according to your vehicle manufacturer's recommendations. A clogged filter restricts airflow and can reduce AC performance.
- **System Leaks:** Have the AC system inspected periodically for refrigerant leaks. Even small leaks can lead to reduced cooling and potential compressor damage.
- **Refrigerant Level:** Ensure the refrigerant level is correct. Low refrigerant can indicate a leak and will impair cooling.
- **Condenser Cleaning:** Keep the condenser (located in front of the radiator) free of debris (leaves, bugs, dirt) to ensure proper heat dissipation.

7. TROUBLESHOOTING

If your vehicle's air conditioning system is not performing as expected after evaporator core replacement, consider the following common issues. For complex problems, consult a qualified technician.

Symptom	Possible Cause	Solution
Poor cooling performance	Low refrigerant charge, clogged cabin air filter, faulty expansion valve/orifice tube, air in system.	Check for leaks and recharge system, replace cabin air filter, inspect and replace expansion valve/orifice tube, evacuate and recharge system.

Symptom	Possible Cause	Solution
No airflow from vents	Blower motor issue, clogged cabin air filter, blend door actuator failure.	Inspect blower motor and wiring, replace cabin air filter, diagnose and replace blend door actuator.
Musty odor from vents	Bacterial growth on evaporator fins, clogged drain tube.	Use an AC system cleaner/deodorizer, clear evaporator drain tube.
Water leaking into cabin	Clogged evaporator drain tube.	Locate and clear the evaporator drain tube.

8. SPECIFICATIONS

Brand	Four Seasons
Model Number	64008
Product Type	Parallel Flow Evaporator Core
Item Weight	5.5 pounds
Product Dimensions	9.99 x 9.99 x 9.99 inches
Exterior Finish	Machined

9. WARRANTY AND SUPPORT

For specific warranty information regarding your Four Seasons 64008 Parallel Flow Evaporator Core, please refer to the documentation provided with your purchase or visit the official Four Seasons website. For technical support or assistance, contact Four Seasons customer service directly.

Manufacturer: Four Seasons

Website: www.4s.com (This is a general link, actual support link may vary)

