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› SAMSUNG DA96-00460L Refrigerator Evaporator Instruction Manual

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Model: DA96-00460L

INTRODUCTION

This instruction manual provides essential information for the SAMSUNG DA96-00460L Refrigerator Evaporator. It covers product description, specifications, installation guidelines, operational principles, maintenance, and troubleshooting. Please read this manual thoroughly before installation or service to ensure proper function and safety.

PRODUCT DESCRIPTION

The SAMSUNG DA96-00460L is a genuine Original Equipment Manufacturer (OEM) evaporator assembly designed for Samsung refrigerators. The evaporator is a critical component in the refrigeration cycle, responsible for absorbing heat from the refrigerator compartment and transferring it to the refrigerant. This part ensures efficient cooling and proper temperature regulation within the appliance.

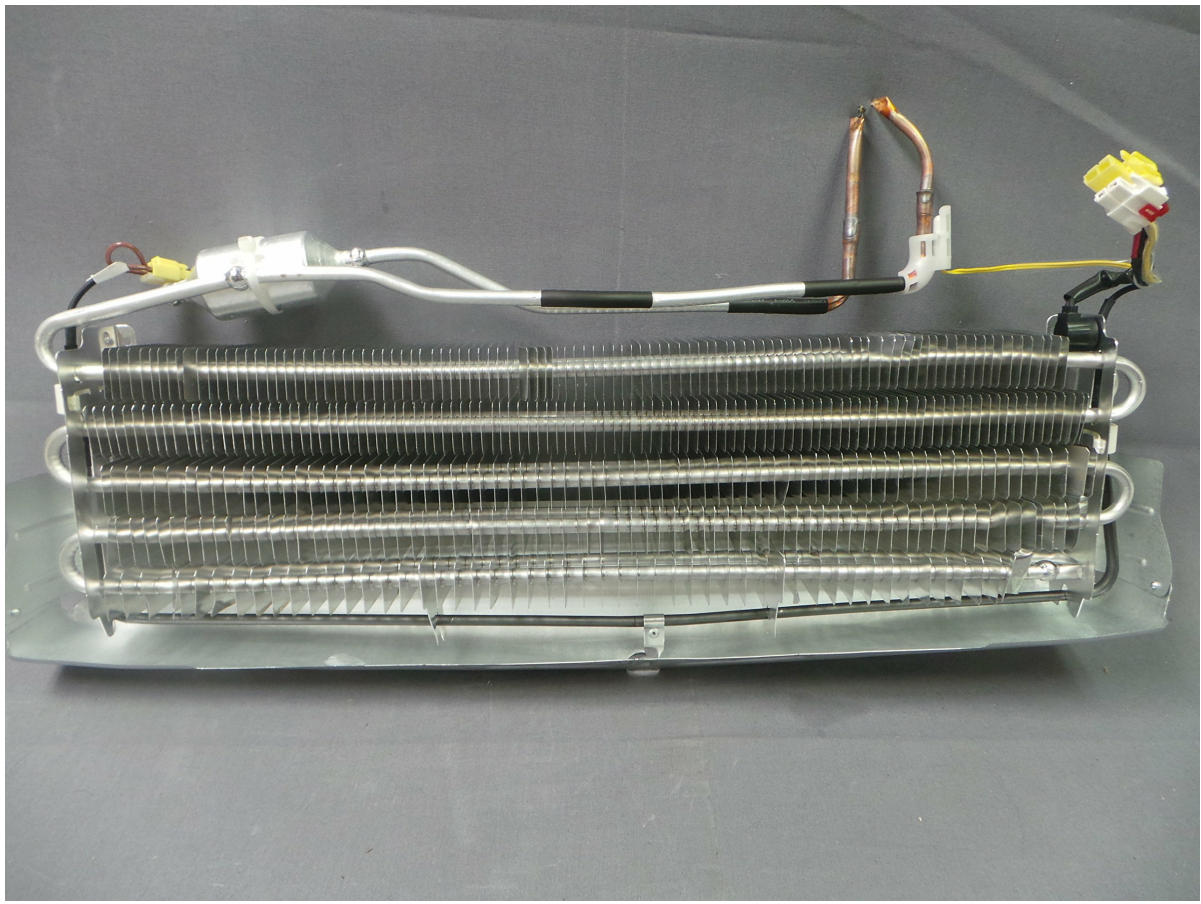


Image 1: The SAMSUNG DA96-00460L Refrigerator Evaporator Assembly. This image displays the complete evaporator unit, including the finned coil, tubing, and electrical connections, ready for installation.

SPECIFICATIONS

Brand	SAMSUNG
Part Number	DA96-00460L
Item Weight	3 pounds
Product Dimensions	27 x 15 x 4 inches
Compatibility	Designed for specific Samsung refrigerator models. Verify compatibility with your appliance model number before purchase.

SETUP AND INSTALLATION

Important Safety Information: Installation of refrigerator components can involve electrical and refrigerant systems. It is highly recommended that installation be performed by a qualified service technician. Always disconnect power to the refrigerator before attempting any repairs or installations.

- 1. Disconnect Power:** Unplug the refrigerator from the electrical outlet or turn off the circuit breaker supplying power to the appliance.
- 2. Access Evaporator Compartment:** Depending on your refrigerator model, this may involve removing freezer shelves, ice maker components, and the rear panel of the freezer compartment.
- 3. Remove Old Evaporator:** Carefully disconnect any electrical connectors, defrost heater wires, and

temperature sensors attached to the old evaporator. Note the routing of all wires and tubes.

4. **Install New Evaporator:** Position the new DA96-00460L evaporator assembly in the same manner as the old unit. Reconnect all electrical connectors, defrost heater wires, and sensors securely. Ensure all connections are firm and correctly seated.
5. **Reassemble:** Replace any panels, shelves, and other components that were removed to access the evaporator.
6. **Restore Power:** Plug the refrigerator back into the electrical outlet or turn on the circuit breaker.
7. **Test Operation:** Allow the refrigerator several hours to reach its operating temperature and verify proper cooling.

OPERATING PRINCIPLES

The evaporator coil, part of the sealed refrigeration system, contains liquid refrigerant. As warm air from the refrigerator compartment passes over the cold evaporator fins, the refrigerant absorbs heat and changes into a low-pressure gas. This process cools the air, which is then circulated back into the compartment. The gaseous refrigerant then moves to the compressor to continue the cooling cycle. The DA96-00460L evaporator is designed to facilitate this heat exchange efficiently.

MAINTENANCE

While the evaporator itself requires minimal direct user maintenance, ensuring the overall refrigerator system is well-maintained contributes to its longevity and efficiency:

- **Keep Vents Clear:** Ensure that air vents inside the refrigerator and freezer compartments are not blocked by food items, allowing for proper air circulation over the evaporator.
- **Monitor Frost Buildup:** Excessive frost on the evaporator can impede its efficiency. If significant frost buildup occurs frequently, it may indicate an issue with the defrost system, which should be inspected by a technician.
- **Clean Condenser Coils:** Periodically clean the condenser coils (usually located at the back or underneath the refrigerator) to ensure efficient heat dissipation, which indirectly supports the evaporator's function.

TROUBLESHOOTING

If your refrigerator is experiencing issues related to cooling, consider the following:

- **Refrigerator Not Cooling:**
 - Check if the refrigerator is plugged in and receiving power.
 - Ensure temperature settings are correct.
 - Verify that the condenser coils are clean and not obstructed.
 - If the evaporator is heavily frosted, the defrost system (defrost heater, thermostat, or control board) may be faulty.
- **Excessive Frost Buildup in Freezer:**
 - Check door seals for leaks, allowing warm, moist air to enter.
 - Ensure the defrost system is functioning correctly. A faulty defrost heater or thermostat can lead to continuous frost accumulation on the evaporator.

- **Unusual Noises:**

- While the evaporator itself is typically silent, issues with the evaporator fan motor can cause noise.

For complex issues or if you are unsure about diagnosing a problem, it is advisable to contact a certified appliance technician.

WARRANTY AND SUPPORT

As a genuine SAMSUNG OEM part, the DA96-00460L Refrigerator Evaporator is manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided with your original refrigerator purchase or contact SAMSUNG customer support directly. Always ensure you are purchasing from authorized retailers to guarantee authenticity and warranty coverage.

For technical assistance or to schedule service, please visit the official SAMSUNG support website or contact their customer service line.