

[Manuals.plus](#) /

› [Suburban](#) /

› Suburban SF-42VHQ 42,000 BTU/h Ducted Low Profile RV Furnace (Model 2592A) Instruction Manual

Suburban 2592A

Suburban SF-42VHQ 42,000 BTU/h Ducted Low Profile RV Furnace

Model: 2592A | Brand: Suburban

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Suburban SF-42VHQ Ducted Low Profile RV Furnace. Please read all instructions carefully before attempting to install or operate this appliance. Retain this manual for future reference.

Important Safety Information

- **Professional Installation Required:** Installation, service, and maintenance must be performed by a qualified service technician, service agency, or gas supplier. Improper installation, adjustment, alteration, service, or maintenance can cause property damage, personal injury, or loss of life.
- **Gas Safety:** This appliance uses propane gas. Ensure proper ventilation and check for gas leaks after any service or installation.
- **Carbon Monoxide Hazard:** This appliance can produce carbon monoxide, which has no odor. Using it in an enclosed space can kill you. Never operate the furnace with blocked vents or without proper exhaust.
- Always turn off the gas supply to the appliance before performing any service or maintenance.

SF Series Furnaces



Image 1.1: Overview of the Suburban SF Series Furnace.

2. PRODUCT FEATURES

The Suburban SF-42VHQ furnace is engineered for reliable and efficient heating in recreational vehicles. Key features include:

- **Maximum Heating Performance:** Delivers powerful, efficient heating in a low-profile ducted unit, suitable for mid-size and large RVs.
- **Flexible Installation Design:** Identical cabinet dimensions allow for installation in various unused spaces, offering increased layout options with top or side rear gas and electrical connections.
- **Efficient Sealed Combustion:** Features sealed, forced-draft combustion with automatic direct spark ignition, low amp draw, and quiet multi-ported stainless steel burners for reliable, energy-efficient operation.
- **Service-Friendly Access:** Designed with an exterior access door for simplified installation and service access, ensuring convenient maintenance.
- **High-Output RV Heating:** The SF-42VHQ model is rated at 40,000 BTU/h, providing consistent, high-capacity heating for demanding RV environments.

Efficient & Low Profile

Dependable heating solutions that are designed, built, and backed by one of the most trusted names in the RV industry. Warm your coach with climate control products you can depend on from Suburban.



Image 2.1: Illustrates the efficient and low-profile design of the RV furnace.

3. SETUP AND INSTALLATION

The installation of the Suburban SF-42VHQ furnace requires specialized knowledge and tools. It is crucial that installation is performed by a qualified RV technician or licensed professional to ensure safety and proper operation.

General Installation Guidelines (for professional reference):

1. **Location:** Select an appropriate location within the RV that allows for proper ducting, ventilation, and access for service. The furnace's identical cabinet dimensions offer flexibility in placement.
2. **Mounting:** Securely mount the furnace according to manufacturer specifications, ensuring it is level and stable.
3. **Ducting:** Connect all necessary ductwork for heat distribution. Ensure ducts are properly sealed and free of obstructions.
4. **Gas Connection:** Connect the propane gas supply line. All gas connections must be leak-tested using a non-corrosive leak detection solution.
5. **Electrical Connection:** Connect the 12V DC power supply and thermostat wiring. Verify correct polarity and secure all connections. The furnace features low amp draw.
6. **Ventilation:** Ensure the combustion air intake and exhaust vents are clear and unobstructed to prevent carbon monoxide buildup and ensure efficient operation.
7. **Exterior Access Door:** Install the required exterior access door for simplified service and maintenance.

Refer to the detailed installation instructions provided with the furnace packaging for specific diagrams and procedures.

4. OPERATING INSTRUCTIONS

Once properly installed and checked by a qualified technician, operating your Suburban SF-42VHQ furnace is straightforward.

Initial Startup:

1. Ensure the RV's propane supply is turned on.
2. Set your RV's thermostat to the 'HEAT' mode.
3. Adjust the thermostat to a temperature setting higher than the current ambient temperature.
4. The furnace's fan will start, followed by the automatic direct spark ignition system attempting to light the burners. This may take a few attempts if the gas lines were recently opened.
5. Once ignited, the furnace will begin to produce heat.

Normal Operation:

- The furnace will cycle on and off as needed to maintain the temperature set on your thermostat.
- Ensure all heat registers are open and not blocked to allow for proper airflow and heat distribution.
- Do not store flammable materials near the furnace or its vents.



Image 4.1: The furnace provides superior heating with low noise output.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Suburban furnace. Always disconnect power and turn off the gas supply before performing any maintenance.

Routine Checks (Monthly during use):

- **Inspect Vents:** Ensure the exterior intake and exhaust vents are clear of obstructions (e.g., dirt, debris, insect

nests).

- **Check Ductwork:** Verify that all internal duct connections are secure and free from leaks or damage.
- **Clean Air Filters (if applicable):** Some RV furnace systems may incorporate return air filters. Clean or replace these as recommended by your RV manufacturer.

Annual Professional Service:

It is highly recommended to have your furnace inspected and serviced annually by a qualified RV technician. This service typically includes:

- Cleaning of the combustion chamber and burner assembly.
- Inspection of the heat exchanger for cracks or damage.
- Testing of safety controls and gas pressure.
- Lubrication of motor bearings (if required).
- Verification of proper electrical connections and wiring.

6. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For complex problems or if you are unsure, always contact a qualified service technician.

Problem	Possible Cause	Solution
Furnace does not start (no fan, no heat)	No 12V DC power, thermostat off or set too low, blown fuse, loose wiring.	Check RV battery, ensure thermostat is in 'HEAT' mode and set above ambient temperature, check fuses, inspect wiring connections.
Fan runs, but no heat	No propane gas, gas valve closed, blocked exhaust/intake, faulty ignition, sail switch issue.	Ensure propane tank is open and not empty, check for gas flow, clear vents, contact technician for ignition or sail switch issues.
Furnace cycles on and off rapidly (short cycling)	Restricted airflow (blocked return air or supply registers), overheating.	Ensure all registers are open and unobstructed. Check for dirty filters.
Unusual noises (grinding, squealing)	Motor bearing wear, fan obstruction.	Turn off furnace immediately. Contact a qualified technician for inspection and repair.

If these steps do not resolve the issue, or if you suspect a gas leak or carbon monoxide issue, immediately turn off the furnace and gas supply, evacuate the RV, and contact a qualified service technician or emergency services.

7. SPECIFICATIONS

Technical specifications for the Suburban SF-42VHQ Ducted Low Profile RV Furnace (Model 2592A):

- **Model:** SF-42VHQ
- **Item Model Number:** 2592A

- **Heating Capacity:** 40,000 BTU/h (as per feature bullets, product title states 42,000 BTU/h, please verify with product label)
- **Product Dimensions:** 20 x 17 x 7.5 inches
- **Item Weight:** 1 pound (Note: This weight may be for shipping purposes only; actual unit weight may vary. Refer to product packaging for accurate weight.)
- **Voltage:** 42 volts (Note: RV furnaces typically operate on 12V DC. Please verify actual operating voltage with product label or manufacturer documentation.)
- **Combustion Type:** Sealed, forced-draft
- **Ignition:** Automatic Direct Spark Ignition
- **Burners:** Quiet multi-ported stainless steel

8. WARRANTY INFORMATION

Suburban products are designed for durability and performance. Specific warranty terms and conditions for the SF-42VHQ furnace are provided with the product at the time of purchase. Please refer to the warranty card or documentation included in your furnace packaging for details regarding coverage, duration, and how to make a claim.

Typically, warranties cover defects in materials and workmanship under normal use and service. Keep your proof of purchase for warranty validation.

9. SUPPORT AND CONTACT

For technical assistance, service, or parts inquiries regarding your Suburban SF-42VHQ furnace, please contact your authorized Suburban dealer or a qualified RV service center.

You may also visit the official Suburban website for additional resources, FAQs, and contact information. When contacting support, please have your furnace model number (2592A) and serial number readily available.

Manufacturer: Suburban

Website: [Visit the Suburban Store on Amazon](#) (for general product information)

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details.](#)

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question