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VENTS Frigate ERV 150

VENTS-US Frigate ERV 150 Ventilation System Instruction Manual

Whole House Fresh Air Intake and Humidity Exhaust System

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1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your VENTS-US Frigate ERV 150 Ventilation System. This unit is designed to provide balanced ventilation, bringing fresh, filtered outdoor air into your home while exhausting stale indoor air. It incorporates an enthalpy core for heat and humidity recovery, contributing to year-round energy savings and improved indoor comfort.

2. SAFETY INFORMATION

Please read all instructions carefully before installation and operation. Failure to follow these instructions may result in property damage, personal injury, or death. Retain this manual for future reference.

- **Electrical Safety:** Ensure the unit is properly grounded. Disconnect power before performing any service or maintenance. All electrical work must be performed by a qualified electrician in accordance with local and national electrical codes.
- **Installation:** Install the unit in a location that allows for proper airflow and access for maintenance. Do not block air inlets or outlets.
- **Maintenance:** Only use genuine VENTS replacement parts. Regular maintenance is crucial for optimal performance and safety.
- **Children and Pets:** Keep children and pets away from the unit during operation and maintenance.
- **Warning:** The inspection door is recommended to be opened for at least 20 seconds after the product is switched off from power mains.

3. PRODUCT OVERVIEW

The VENTS-US Frigate ERV 150 is a compact, high-performance energy recovery ventilation system. It features a durable steel casing with a multilayer aluminum-zinc coating for corrosion resistance. The unit is equipped with

dynamically balanced centrifugal fans for quiet and efficient airflow, and an enthalpy core for both heat and humidity recovery, eliminating the need for a condensate drain.

3.1. External View



Image Description: A front and top view of the VENTS-US Frigate ERV 150 ventilation system. The unit is silver-grey with two circular duct connections visible on the front panel. A control box is mounted on the top right side.



Image Description: A side view of the VENTS-US Frigate ERV 150 ventilation system. The power cord is visible, extending from the control box on the side. Two circular duct connections are visible on the left side of the unit.

3.2. Internal Components

The unit's internal design facilitates efficient air exchange and energy recovery. It includes a plate heat exchanger (enthalpy core) and two centrifugal fans for supply and exhaust airflows.



Image Description: The VENTS-US Frigate ERV 150 ventilation system with its top service panel open, revealing the internal components. A white filter is visible, positioned diagonally within the unit, separating the airflows. Two circular fan housings are visible on either side of the filter.



Image Description: A diagram illustrating the air paths within the VENTS-US Frigate ERV 150 ventilation system. Arrows indicate fresh air from outside, stale air from the room, utilized exhaust air, and air supplied to the room, demonstrating the heat and humidity exchange process through the central core.

3.3. Product Video Overview

Your browser does not support the video tag.

Video Description: This video provides a full 360-degree view of the VENTS-US Frigate ERV 150 Whole House Ventilation System, showcasing its exterior design and compact form factor.

4. SETUP

The VENTS-US Frigate ERV 150 is designed for permanent ceiling mount installation. Proper planning for ductwork and electrical connections is essential.

4.1. Dimensions

FRIGATE ERV 150 DIMENSIONS

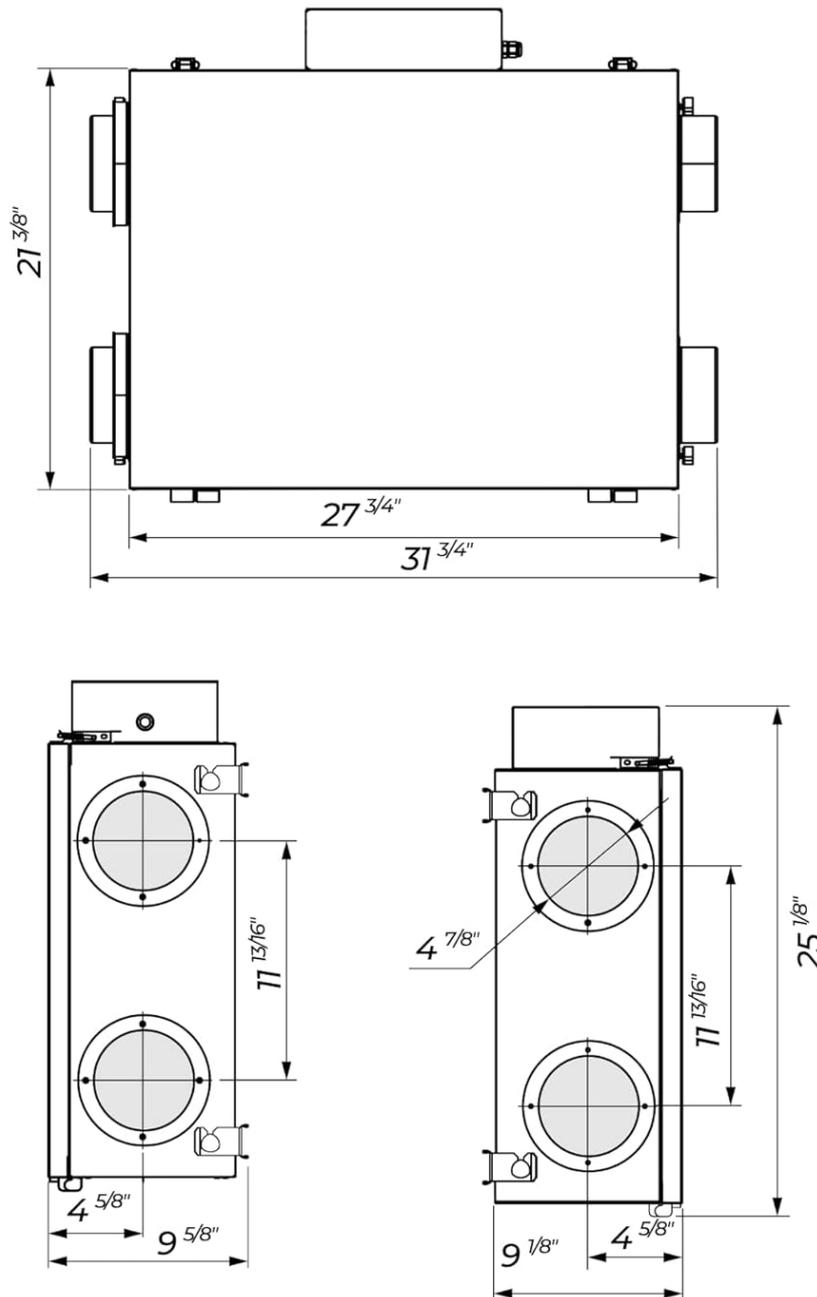


Image Description: A technical diagram illustrating the dimensions of the VENTS-US Frigate ERV 150 ventilation system from top, front, and side perspectives. Key measurements are provided in inches, showing the unit's compact size for installation.

4.2. Included Components

The package includes the whole house ventilation system, power cord, filters, and mounting brackets. Additional ductwork and installation hardware may be required and are not included.

5. OPERATING INSTRUCTIONS

The unit features an integrated control panel for managing fan speeds and operational modes.

5.1. Speed Control

The control panel allows for independent fan speed adjustment from 0% to 100%. A simple mode switch provides options for Low, Medium, and Standby operation, catering to various ventilation needs.

5.2. Frost Prevention Cycle

The Frigate ERV 150 includes an electronic defrost system to protect the energy core during cold weather. This system automatically cycles to defrost and resume normal operation when outdoor temperatures drop below 23°F (-5°C).

Your browser does not support the video tag.

Video Description: This video demonstrates the VENTS-US Frigate ERV 150's frost prevention cycle. It visually explains how the supply motor is temporarily turned off, allowing warm indoor air to defrost the core, ensuring continuous operation in cold conditions.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your ventilation system.

- **Filter Cleaning/Replacement:** The unit comes with washable MERV 6 filters for both supply and exhaust airflows. These filters should be regularly inspected and cleaned or replaced as needed to maintain air quality and system efficiency. Optional MERV 13 or aluminum pre-filters are available for enhanced protection.
- **Service Panel:** The unit includes a safety interlock switch that powers down the unit when the service panel is opened, ensuring safety during maintenance.
- **General Cleaning:** Periodically clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.

7. TROUBLESHOOTING

If you experience issues with your VENTS-US Frigate ERV 150, please refer to the following common troubleshooting steps:

- **No Power:** Check the power connection and ensure the unit is plugged into a functional outlet. Verify that the circuit breaker has not tripped.
- **Reduced Airflow:** Inspect filters for excessive dirt or blockages. Clean or replace filters as necessary. Check for obstructions in the ductwork.
- **Unusual Noise:** Ensure the unit is securely mounted. Check for any loose components or debris inside the unit. If the noise persists, contact customer support.
- **System Not Operating:** Confirm the service panel is fully closed, as the safety interlock switch will prevent operation if open.

For persistent issues or complex repairs, contact VENTS-US customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	VENTS
Model Name	VENTS Frigate ERV 150
Product Dimensions	31"D x 24"W x 12"H
Item Weight	60 pounds

Feature	Detail
Color	Silver
Electric Fan Design	Exhaust Fan
Power Source	AC
Style	Modern
Room Type	Whole house
Noise Level	1.9 Sones
Wattage	189 watts
Finish Type	Metallic
Air Flow Capacity	180 Cubic Feet Per Minute
Voltage	120 Volts
Included Components	Whole house ventilation system, power cord, filters, and mounting brackets
Indoor/Outdoor Usage	Indoor
Specification Met	ETL
Control Method	Push Button
Efficiency	High Efficiency
Is Cordless?	No
Number of Power Levels	1
Installation Type	Permanent - Ceiling Mount
Size	180 CFM
Mounting Type	Ceiling Mount

9. WARRANTY & SUPPORT

The VENTS-US Frigate ERV 150 is backed by a **two-year warranty**, ensuring lasting performance and peace of mind.

For technical assistance, warranty claims, or to learn more about VENTS-US products, please contact:

- **Website:** vents-us.com
- **Phone:** 888-640-0925