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Aspira ECOCOMFORT 160 RF Air Recuperator User Manual

Model: ECOCOMFORT 160 RF

INTRODUCTION

The Aspira ECOCOMFORT 160 RF is a decentralized ventilation unit designed for efficient heat recovery in residential and commercial spaces. This system utilizes a compact, single-stage heat exchanger with ceramic thermal exchange technology to recover heat from extracted air and transfer it to incoming fresh air.

The ECOCOMFORT-RF system consists of one or more decentralized ventilation units installed on external walls. A ceramic heat exchanger inside each unit collects heat from the air stream extracted from the room and transfers it to the incoming air during the intake cycle. Incoming air passes through a G3 filter, preventing the entry of pollutants.

Each fan features a brushless DC motor controlled by a microprocessor. This microprocessor processes information from integrated sensors (temperature, humidity, and brightness) and remote control commands to create the most suitable ventilation modes for optimal environmental comfort.



Figure 1: Exploded view of the Aspira ECOCOMFORT 160 RF recuperator, illustrating its internal components including the fan, ceramic heat exchanger, and the accompanying remote control.

SETUP AND INSTALLATION

The ECOCOMFORT-RF system requires a "Master" unit and a remote control as its minimum configuration. Up to 64 additional units can be added to the system and controlled by the same remote.

Installation involves mounting the decentralized ventilation unit on an external wall. Ensure proper sizing and placement according to the provided dimensions and local building codes. For wall thicknesses less than 280mm, the tube may need to be cut to size, and a standard external grille (not included) might be required.

- **Night Mode Button ():** Activates a quieter, lower-speed operation suitable for nighttime.
- **Night Mode Speed LED:** Indicates when night mode is active.

MAINTENANCE

Regular maintenance ensures optimal performance and air quality. The ECOCOMFORT 160 RF unit is equipped with a G3 filter to prevent pollutants from entering the environment.

Filter Cleaning and Replacement:

- The G3 filter should be inspected and cleaned regularly, typically every 3-6 months, depending on air quality and usage.
- To clean, carefully remove the filter from the unit. Use a vacuum cleaner to remove dust and debris. If heavily soiled, the filter may be gently washed with lukewarm water and mild detergent, then thoroughly dried before reinstallation.
- Replace the G3 filter annually or if it shows signs of damage or excessive wear, even after cleaning. Refer to the product's full manual for specific filter replacement instructions and compatible filter types.

General Cleaning:

- Periodically wipe the exterior of the unit and the remote control with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- Ensure the external grille is free from obstructions like leaves or debris to maintain proper airflow.

TROUBLESHOOTING

If you encounter issues with your ECOCOMFORT 160 RF unit, please refer to the following common troubleshooting steps:

- **Unit not turning ON:**
 - Check if the unit is properly connected to the power supply.
 - Ensure the remote control batteries are not depleted.
 - Verify that the remote control is within range and not obstructed.
- **Poor airflow:**
 - Inspect and clean the G3 filter. A clogged filter can significantly reduce airflow.
 - Check the external grille for any blockages.
 - Ensure the fan speed is set appropriately for the desired airflow.
- **Remote control not responding:**
 - Replace the remote control batteries.
 - Ensure there are no strong electromagnetic interferences nearby.
 - Try re-pairing the remote control with the master unit if applicable (refer to the full manual for pairing instructions).
- **Unusual noise:**
 - Check for any loose components or debris inside the unit.
 - Ensure the unit is securely mounted.

If the problem persists after attempting these steps, please contact Aspira customer support or a qualified technician.

SPECIFICATIONS

Feature	Detail
Model	ECOCOMFORT 160 RF
Brand	Aspira
Type	Decentralized Ventilation Unit with Heat Recovery
Heat Exchanger	Compact 1-stage ceramic thermo-exchanger
Filter Type	G3 Filter
Motor Type	Brushless DC motor
Control	Microprocessor controlled with integrated sensors (temperature, humidity, brightness)
Remote Control	Radio Frequency (RF) remote control included
Multi-unit Support	Supports up to 64 additional units with one master remote
Batteries Included	No
Batteries Required	Yes (for remote control)
First Available Date	February 21, 2020
Unit Dimensions (A x B x C)	180mm x 160mm x 530mm (approximate, refer to Figure 2 for details)
External Grille Dimensions (F)	190mm diameter (approximate, refer to Figure 2 for details)
Remote Control Dimensions (G x H)	125mm x 60mm (approximate, refer to Figure 2 for details)

WARRANTY AND SUPPORT

Specific warranty details are not provided in this document. For information regarding the warranty period, terms, and conditions for your Aspira ECOCOMFORT 160 RF unit, please refer to the documentation included with your purchase or visit the official Aspira website.

For technical support, spare parts, or service inquiries, please contact Aspira customer service. Contact details can typically be found on the manufacturer's website or in your product packaging.