

Turbionaire TREND HRV

Turbionaire Trend HRV Decentralized Ventilation Unit

Model: TREND HRV

Brand: Turbionaire

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Turbionaire Trend HRV Decentralized Ventilation Unit. This unit is designed to provide efficient ventilation with heat recovery, ensuring optimal indoor air quality and energy savings. Please read this manual thoroughly before installation and use to ensure safe and correct operation.

2. SAFETY INFORMATION

Always adhere to the following safety precautions to prevent injury or damage to the unit:

- Ensure the power supply is disconnected before any installation, maintenance, or cleaning.
- Installation must be performed by a qualified electrician or technician in accordance with local electrical codes and regulations.
- Do not operate the unit with damaged cords or plugs.
- Keep hands and foreign objects away from moving parts during operation.
- Do not block the air inlets or outlets.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Do not use the unit in environments with high concentrations of dust, flammable gases, or corrosive substances.

3. PACKAGE CONTENTS

Carefully unpack the box and ensure all items are present and undamaged. If any items are missing or damaged, contact your retailer immediately.

- Turbionaire Trend HRV Ventilation Unit (Main Body with Front Panel)
- Ceramic Heat Exchanger
- Expandable PVC Tube
- Outdoor Grille with Anti-insect Net

- Remote Control (includes 1 CR2032 battery)
- Removable and Washable Dust Filters
- Mounting Hardware (screws, anchors)
- User Manual



Figure 3.1: Overview of the Turbionaire Trend HRV unit and its included components, as packaged.

4. PRODUCT FEATURES

The Turbionaire Trend HRV unit is equipped with advanced features for efficient and comfortable ventilation:

- **Ceramic Heat Exchanger:** Recovers heat from exhaust air to pre-warm incoming fresh air, reducing energy consumption.
- **Adjustable Humidity Sensor:** Automatically adjusts operation based on room humidity levels to prevent condensation and mold.
- **8 Fan Speeds:** Provides precise control over airflow for various needs and preferences.
- **Adjustable Timer:** Allows for scheduled operation, enhancing convenience and energy efficiency.
- **Reversible Brushless DC Motor:** Enables both intake and extraction modes with low energy consumption (1.2 W to 7.2 W) and quiet operation.
- **Sleep Mode:** Reduces fan speed and noise for undisturbed rest.
- **Magnetic Power Supply Board:** Facilitates easy installation and removal of the fan unit from the wall plate.
- **Removable and Washable Dust Filters:** Ensures clean air and easy maintenance.
- **Dimmable LED Indicator:** Provides visual feedback on unit status.
- **Telescopic PVC Tube:** Adjustable length (268 - 500 mm) for flexible installation in various wall thicknesses.
- **Outdoor Grille with Mosquito Net:** Protects against insects and external elements.

5. COMPONENTS AND DIAGRAM

Familiarize yourself with the main components of the Turbionaire Trend HRV unit:

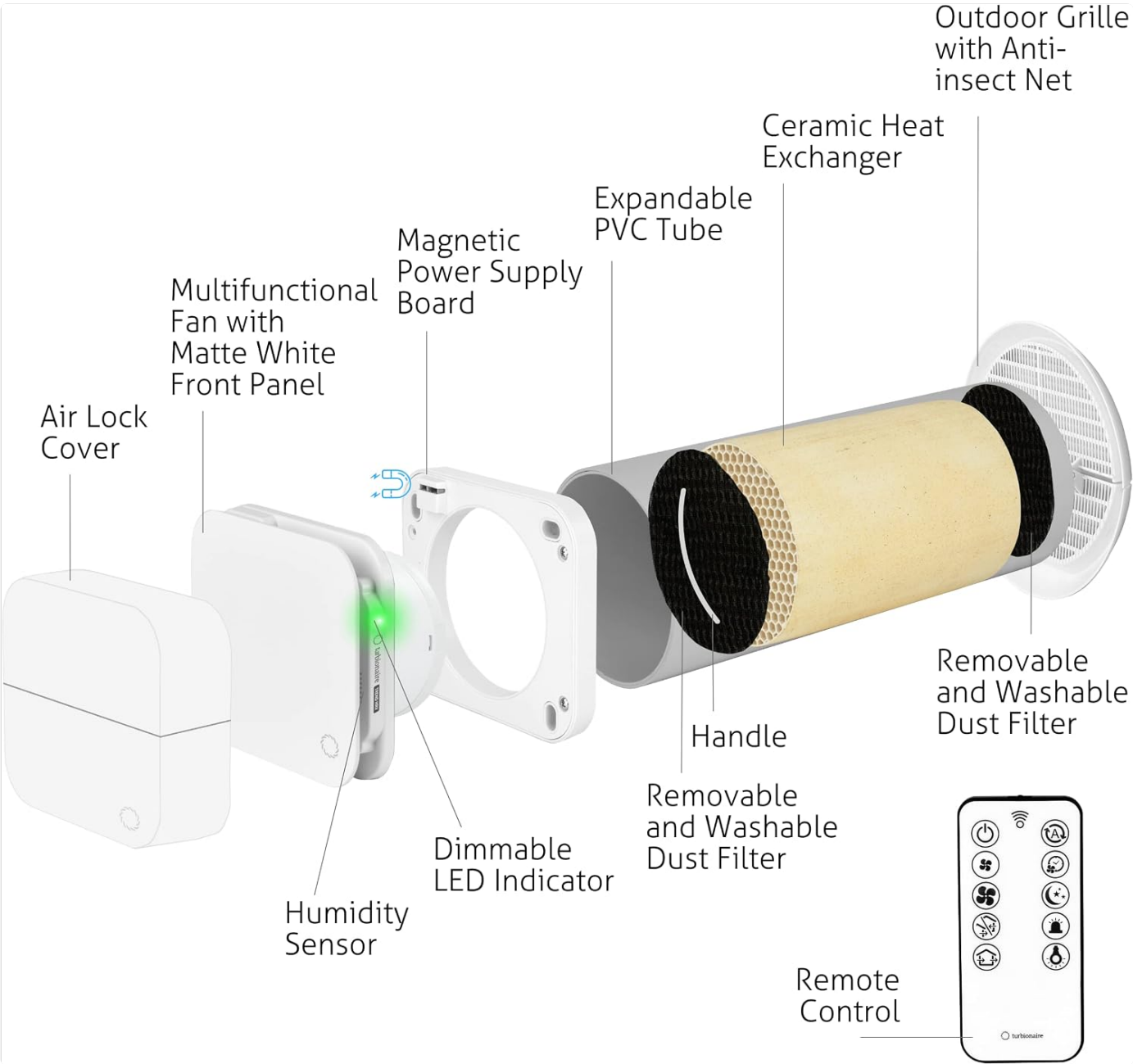


Figure 5.1: Exploded view illustrating the various parts of the ventilation unit, including the Air Lock Cover, Multifunctional Fan with Matte White Front Panel, Humidity Sensor, Dimmable LED Indicator, Magnetic Power Supply Board, Expandable PVC Tube, Ceramic Heat Exchanger, Removable and Washable Dust Filter, Handle, Outdoor Grille with Anti-insect Net, and Remote Control.



Figure 5.2: The complete Turbionaire Trend HRV unit, showcasing the main body, remote control, and the ceramic heat exchanger.

6. INSTALLATION AND SETUP

Proper installation is crucial for the optimal performance of your HRV unit. It is recommended to have the installation performed by a professional.

6.1. Site Selection

- Choose a location on an exterior wall where the unit can be easily accessed for maintenance.
- Ensure there is sufficient space around the unit for airflow and service.
- Consider the unit's dimensions (Diameter: 105 mm, Tube length: 268 - 500 mm) for drilling the wall opening.

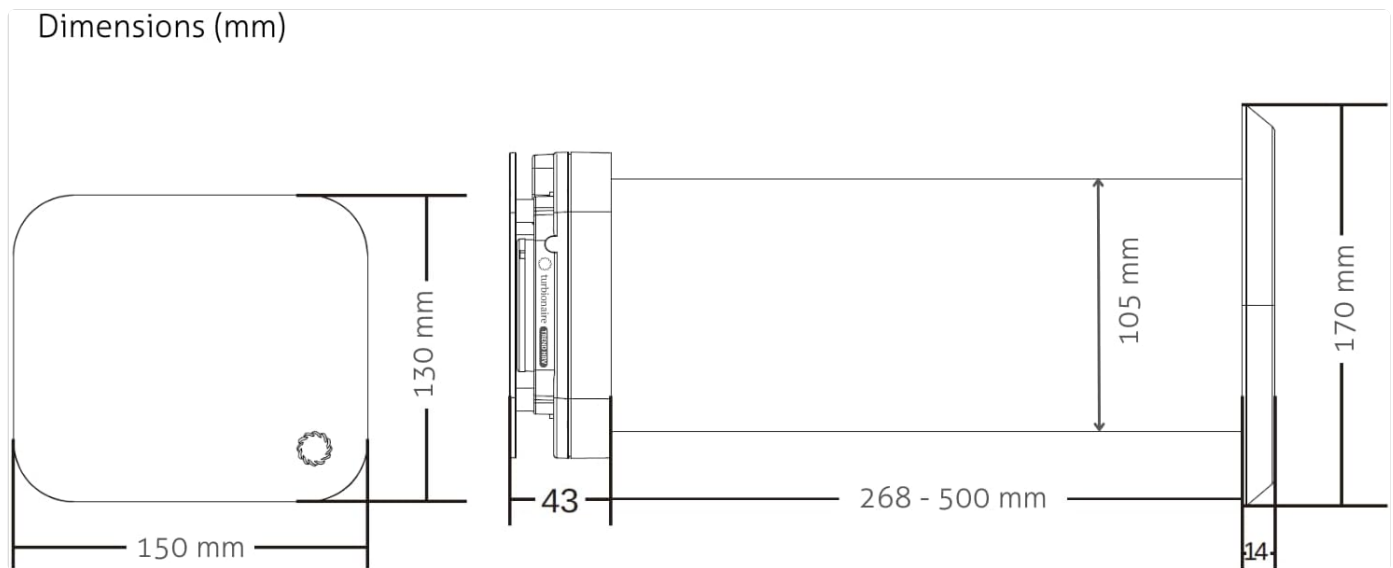


Figure 6.1: Detailed dimensions of the Turbionaire Trend HRV unit, including the front panel (150mm x 130mm), tube diameter (105mm), and adjustable tube length (268-500mm).

6.2. Wall Preparation

- Drill a core hole of appropriate diameter (slightly larger than 105 mm) through the exterior wall.
- Ensure the hole is slightly angled downwards towards the exterior to allow for condensation drainage.

6.3. Unit Assembly and Mounting

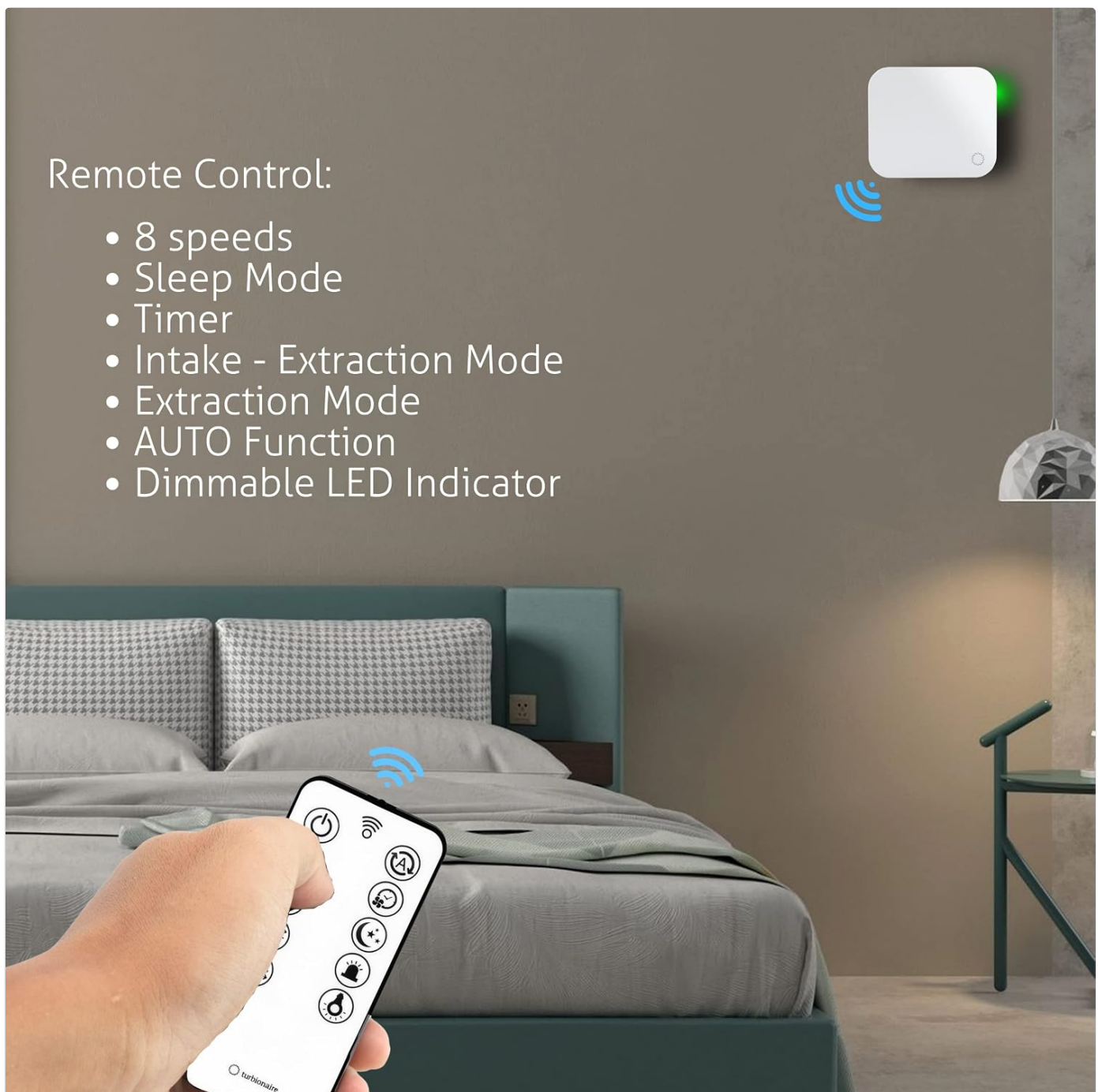
- Insert the expandable PVC tube into the prepared wall opening. Adjust its length to match the wall thickness.
- Install the outdoor grille on the exterior side of the wall, ensuring the mosquito net is properly positioned.
- Mount the main unit's power supply board to the interior wall, aligning it with the PVC tube.
- Connect the electrical wiring to the power supply board.
- Insert the ceramic heat exchanger and dust filters into the tube from the interior side.
- Attach the fan unit with the front panel to the magnetic power supply board. The magnetic attachment ensures instant electrical connection.



Figure 6.2: Illustration of the magnetic attachment mechanism, allowing for easy and instant electrical connection of the fan unit to the power supply board.

7. OPERATION

The Turbionaire Trend HRV unit is primarily controlled via the included remote control. Ensure the CR2032 battery is installed correctly in the remote.



Remote Control:

- 8 speeds
- Sleep Mode
- Timer
- Intake - Extraction Mode
- Extraction Mode
- AUTO Function
- Dimmable LED Indicator

Figure 7.1: The remote control displays various functions including 8 speeds, Sleep Mode, Timer, Intake-Extraction Mode, Extraction Mode, AUTO Function, and Dimmable LED Indicator.

7.1. Remote Control Functions

- **Power Button:** Turns the unit ON or OFF.
- **Speed Control:** Adjusts fan speed through 8 levels.
- **Mode Selection:**
 - **Intake - Extraction Mode (Reversible Airflow):** The unit alternates between drawing fresh air in and expelling stale air out, utilizing the heat recovery function. This is the primary operating mode for continuous ventilation.
 - **Extraction Mode:** The unit continuously expels stale air from the room. Useful for rapid removal of odors or excess humidity.
 - **AUTO Function:** The unit automatically adjusts fan speed and mode based on the humidity sensor readings.
- **Timer Function:** Sets the unit to operate for a specified duration before turning off.
- **Sleep Mode:** Activates a low-speed, quiet operation for minimal disturbance during sleep.

- **LED Indicator Control:** Adjusts the brightness of the unit's LED indicator.

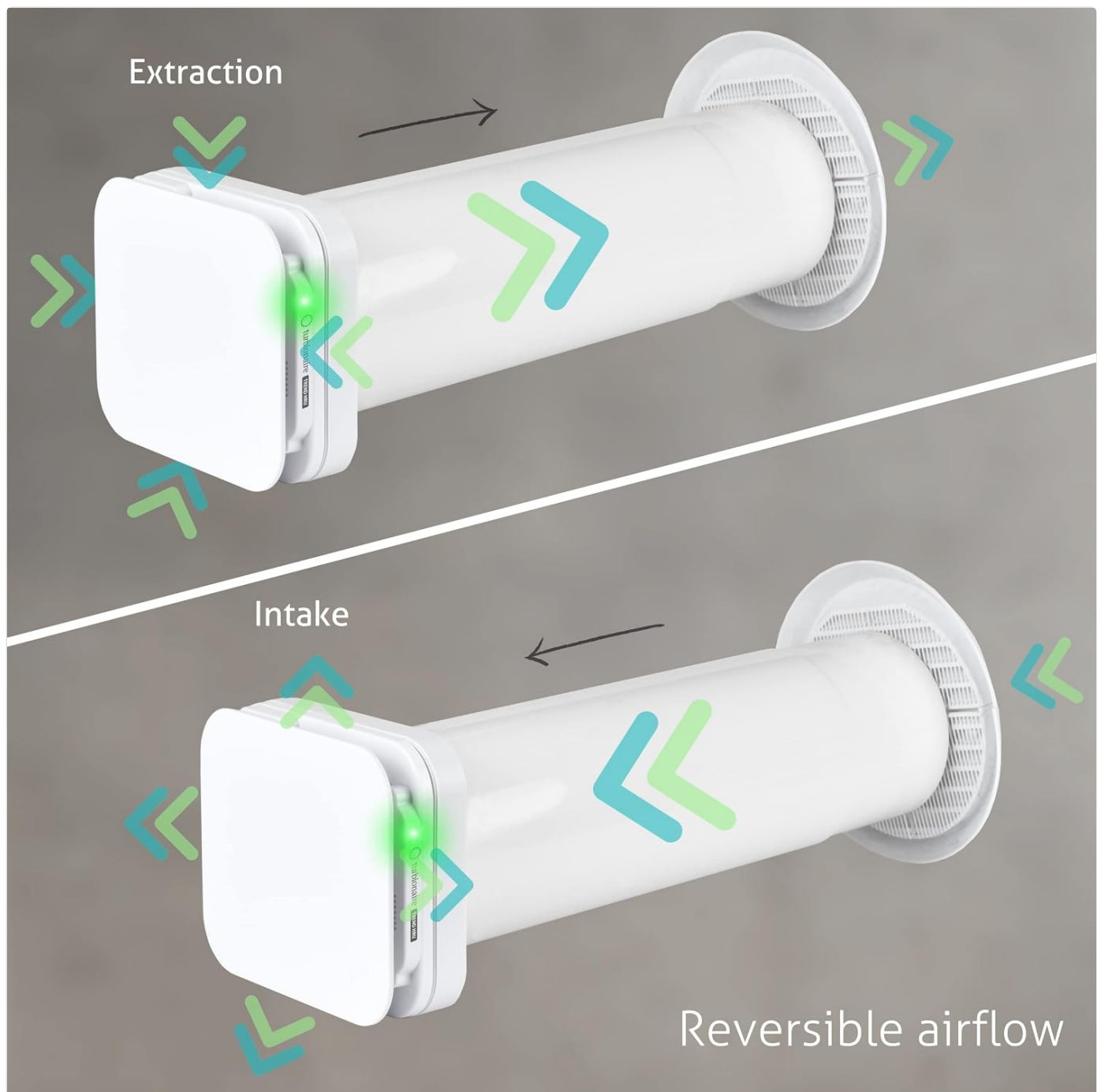


Figure 7.2: Visual representation of the reversible airflow, showing both Extraction (air out) and Intake (air in) modes.

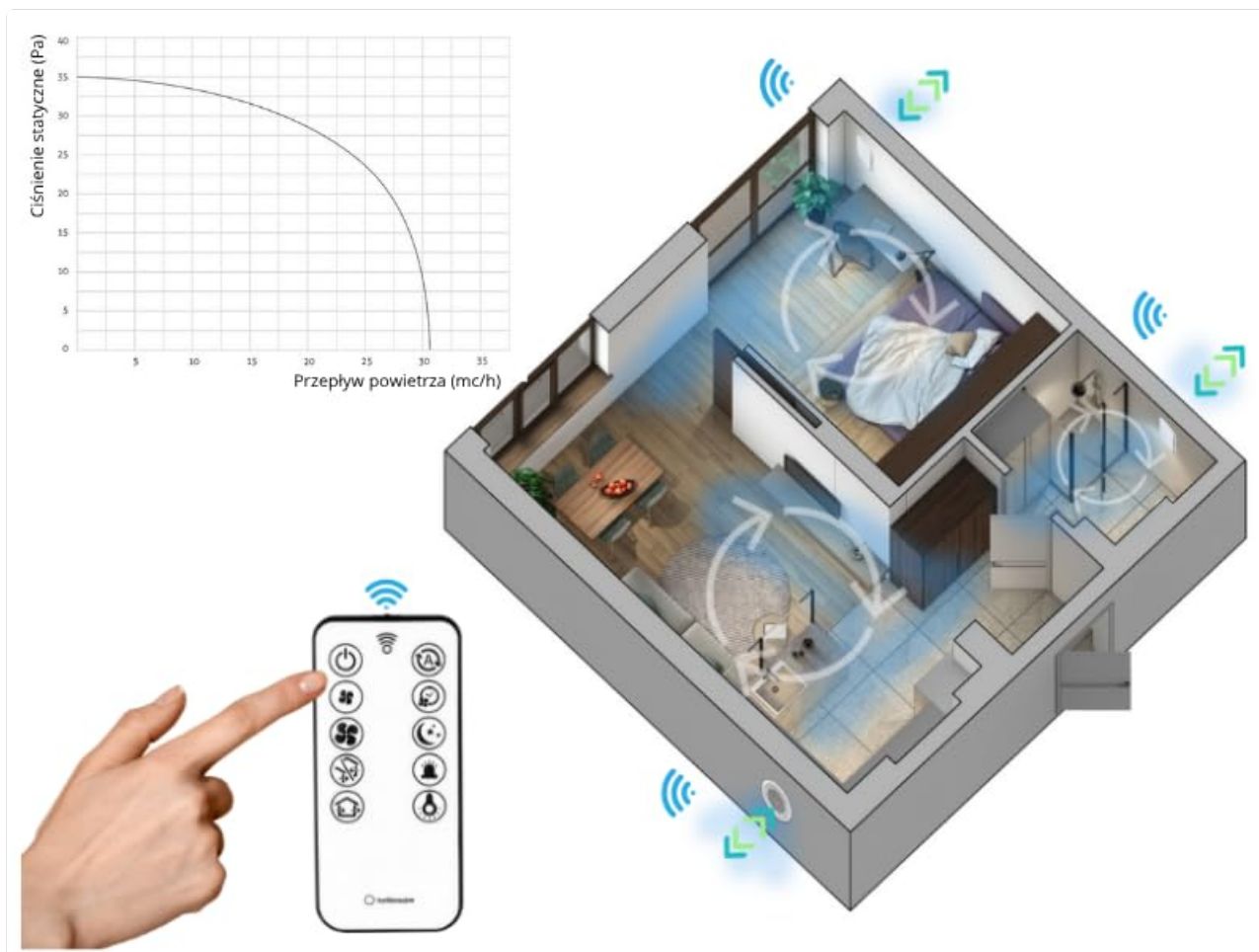


Figure 7.3: Demonstrates the remote control's use in managing the unit, with an overlay showing how the ventilation unit facilitates air circulation within a room.

7.2. Humidity Sensor Adjustment

The humidity sensor's sensitivity can be adjusted using a small dial located on the unit's main body (behind the front panel). Refer to Figure 5.1 for location. This allows you to set the desired humidity threshold for automatic operation.

8. MAINTENANCE

Regular maintenance ensures the longevity and efficiency of your Turbionaire Trend HRV unit.

8.1. Cleaning Filters

- The unit is equipped with removable and washable dust filters.
- **Frequency:** Clean filters every 1-3 months, or more frequently depending on air quality and usage.
- **Procedure:**
 1. Disconnect power to the unit.
 2. Gently detach the front panel from the magnetic power supply board.
 3. Carefully remove the dust filters and ceramic heat exchanger from the tube.
 4. Wash the filters with warm, soapy water. Rinse thoroughly and allow them to air dry completely before reinstallation.
 5. Clean the ceramic heat exchanger by gently brushing off any dust or debris. Do not wash with water unless specified by manufacturer.
 6. Reinstall the ceramic heat exchanger and dry filters.
 7. Reattach the front panel, ensuring it clicks securely into place.

8.2. Exterior Cleaning

- Wipe the exterior of the unit with a soft, damp cloth.
- Do not use abrasive cleaners or solvents.

9. TROUBLESHOOTING

Before contacting customer support, please refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	No power supply; Remote control battery depleted; Unit not properly connected.	Check power connection; Replace remote control battery (CR2032); Ensure front panel is securely attached to the power board.
Poor airflow or low efficiency.	Clogged filters; Blocked air inlets/outlets; Incorrect mode selection.	Clean or replace filters; Check for obstructions in the tube or grilles; Select appropriate operating mode (e.g., Intake-Extraction).
Unit is noisy.	High fan speed; Loose components; Obstruction in fan.	Reduce fan speed; Check for loose parts and secure them; Inspect fan for any foreign objects.
Humidity sensor not working correctly.	Sensor dirty; Sensitivity setting incorrect.	Gently clean the sensor area; Adjust the humidity sensor sensitivity dial.

10. SPECIFICATIONS

Technical specifications for the Turbionaire Trend HRV Decentralized Ventilation Unit:

Attribute	Value
Brand	Turbionaire
Model Number	TREND HRV
Color	White
Product Dimensions (L x W x H)	32.5 x 13 x 15 cm
Item Weight	2.5 grams
Power	1.2 W to 7.2 W
Voltage	230 Volts
Material	Plastic
Number of Speeds	8
Automatic Shut-off Function	Yes
Special Features	Ceramic Heat Recovery, Humidity Sensor, Remote Control, Timer, 8 Speeds, DC Brushless Motor, Reversible Airflow, Sleep Mode, Low Noise Level

Attribute	Value
Recommended Uses	Air Circulation, Ventilation
Controller Type	Remote Control
Battery (Remote)	1 CR2032 (included)
Country of Origin	China

11. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact your retailer. Keep your proof of purchase for any warranty claims.

Spare parts availability information is not available at this time. Please contact Turbionaire customer service or your retailer for inquiries regarding spare parts.

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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.

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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