

## Sodeca Unirec-50-S

# Sodeca Unirec-50-S High-Efficiency Monozone Heat Recovery Unit

Instruction Manual

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Sodeca Unirec-50-S High-Efficiency Monozone Heat Recovery Unit. Please read this manual thoroughly before using the product and retain it for future reference.

The Sodeca Unirec-50-S is designed to improve indoor air quality by renovating air within your home while minimizing energy loss. It achieves this by recovering heat from outgoing air and transferring it to incoming fresh air, which is filtered to prevent the entry of external particles.

## 2. PRODUCT OVERVIEW

The Sodeca Unirec-50-S is a compact and efficient monozone heat recovery unit. Key features include:

- **Reversible EC Fan:** Ensures efficient air movement in both supply and extraction modes.
- **High Thermal Efficiency:** Achieves up to 90% thermal efficiency, reducing heating and cooling costs.
- **G3 Filters:** Equipped with G3 filters to ensure clean incoming air by preventing dust and particles.
- **Compact Ceramic Exchanger:** Facilitates efficient heat transfer.
- **Telescopic Duct:** Allows for easy installation and adaptation to various wall thicknesses (120 mm to 470 mm).
- **Automatic Air Inlet Grille:** Closes automatically when the unit is off to prevent air leaks.
- **70-Second Recovery Cycle:** Alternates between air supply and extraction every 70 seconds for continuous air renovation.



**Figure 1:** Sodeca Unirec-50-S High-Efficiency Monozone Heat Recovery Unit. This image shows the compact, rectangular unit with two circular duct connections on one side, and the Sodeca brand name visible on the front panel. The top surface appears to have a textured, dark grey section.

### 3. SAFETY INFORMATION

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Always observe the following safety precautions to prevent injury and damage to the unit:

- Ensure the unit is installed by a qualified professional in accordance with local electrical and building codes.
- Disconnect power before performing any maintenance or cleaning.
- Do not block air inlets or outlets.
- Keep children and pets away from the unit during operation.
- Do not operate the unit if any part is damaged. Contact customer support for repairs.
- 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.

### 4. INSTALLATION

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The Unirec-50-S unit is designed for straightforward installation. It features a telescopic duct that accommodates wall thicknesses from 120 mm to 470 mm.

#### 4.1. Site Selection

- Choose a location on an exterior wall that allows for proper air intake and exhaust, away from obstructions.
- Ensure adequate space around the unit for maintenance and filter replacement.

#### 4.2. Mounting and Ducting

1. Drill a suitable opening through the wall, ensuring it is level and correctly sized for the unit's duct.
2. Insert the telescopic duct through the wall opening and adjust its length to match the wall thickness.
3. Secure the main unit to the interior wall using appropriate fasteners.
4. Install the exterior grille, ensuring a weather-tight seal.

## 4.3. Electrical Connection

- The unit operates on 100V to 230V, 50/60Hz power. It comes with an integrated power cable.
- Connect the unit to a dedicated power supply circuit as per local electrical regulations.
- Ensure the power supply is switched off before making any electrical connections.

## 5. OPERATION

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The Unirec-50-S can be controlled via its integrated dashboard or the provided remote control.

### 5.1. Control Panel and Remote Control

The control panel on the unit and the remote control allow you to select various operating modes and settings.

### 5.2. Operating Modes

- **Recovery Mode:** The standard operating mode, where the unit alternates between supplying fresh, pre-heated air and extracting stale air, recovering heat in the process. This cycle typically lasts 70 seconds for each direction.
- **Extraction Mode:** The unit continuously extracts air from the room without heat recovery. Useful for rapid removal of odors or excess humidity.
- **Pulse Mode:** Provides intermittent ventilation.
- **Natural Mode:** The air inlet grille opens, and the fan stops. This mode allows for natural ventilation without mechanical assistance.

### 5.3. Speed Settings

The unit offers two fan speeds to adjust the airflow rate according to your needs.

### 5.4. Humidity Control

The unit includes a humidity control function to help manage indoor humidity levels.

### 5.5. Network Connection

Multiple Unirec-50-S units can be connected in a network for synchronized operation across different rooms or zones.

## 6. MAINTENANCE

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Regular maintenance ensures optimal performance and longevity of your heat recovery unit.

### 6.1. Filter Cleaning and Replacement

- The unit is equipped with G3 filters. These filters should be inspected and cleaned regularly (e.g., monthly) or replaced as needed.
- To access the filters, disconnect power to the unit and follow the instructions for opening the unit's casing.
- Clean filters with a vacuum cleaner or wash them gently with water and mild detergent. Ensure they are completely dry before reinstallation.
- Replace filters if they are damaged or cannot be cleaned effectively.

## 6.2. Heat Exchanger Cleaning

Periodically inspect the ceramic heat exchanger for dust buildup. If necessary, gently clean it according to the unit's specific instructions (refer to the full product manual for detailed steps).

## 6.3. Exterior Grille Cleaning

Ensure the exterior grille remains free of debris, leaves, or other obstructions to maintain proper airflow.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter with your Unirec-50-S unit.

Problem	Possible Cause	Solution
Unit does not turn on.	No power supply.	Check power connection and circuit breaker.
Reduced airflow.	Clogged filters or blocked ducts.	Clean or replace filters. Check ducts for obstructions.
Unusual noise during operation.	Loose components or fan obstruction.	Disconnect power and inspect for loose parts or obstructions. If issue persists, contact support.
Ineffective heat recovery.	Dirty heat exchanger or incorrect mode.	Clean heat exchanger. Ensure unit is in Recovery Mode.

If you encounter problems not listed here or if solutions do not resolve the issue, please contact Sodeca customer support.

## 8. SPECIFICATIONS

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Feature	Detail
Model	Unirec-50-S
Reference Number	1118645
Brand	Sodeca
Dimensions (L x W x H)	47 x 31 x 26 cm
Weight	4.5 kg
Voltage	100V - 230V
Frequency	50/60 Hz
Power Consumption	230 Watts
Heat Output	1450 Watts (Note: This value is from source data and may refer to a different metric than typical heat output for a recovery unit.)
Thermal Efficiency	Up to 90%

Feature	Detail
Duct Diameter	150 mm
Duct Length (Telescopic)	120 mm to 470 mm
Max Airflow	54 m <sup>3</sup> /h
Filters	G3

## 9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact your retailer. Sodeca is a specialist in the design and manufacture of fans and accessories for industrial applications, ensuring high-quality products.

For technical support, spare parts, or service inquiries, please contact Sodeca customer service or your authorized dealer. When contacting support, please have your model number (Unirec-50-S) and reference number (1118645) available.

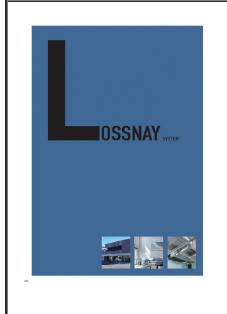
You can find more information about Sodeca products and support on their official website:

[www.sodeca.com](http://www.sodeca.com)

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### Related Documents - Unirec-50-S

	<p><b><a href="#">SODECA PURI-50 Air Purifier: User Manual, Specifications, and Operation Guide</a></b></p> <p>Comprehensive user manual for the SODECA PURI-50 Air Purifier. Includes safety warnings, operating instructions, technical specifications, maintenance, cleaning, and FAQ. Learn how to use and care for your PURI-50.</p>
	<p><b><a href="#">SODECA EC Technology Solutions: Advanced Ventilation Systems</a></b></p> <p>Explore SODECA's comprehensive range of EC Technology ventilation solutions, including industrial fans, extractors, and air purifiers designed for energy efficiency and optimal performance. Discover technical specifications and product benefits.</p>
	<p><b><a href="#">SODECA Catálogo de Preços Março 2022: Soluções de Ventilação e Purificação de Ar</a></b></p> <p>Consulte a tabela de preços de março de 2022 da SODECA para soluções de ventilação e purificação de ar. Descubra ventiladores industriais e domésticos, sistemas de desenfumagem, pressurização e mais.</p>

	<p><a href="#"><b>SODECA HATCH/HP Dynamic Smoke Exhaust Ventilators - Technical Data</b></a></p> <p>Detailed technical specifications, performance data, acoustic characteristics, dimensions, and installation information for SODECA HATCH/HP dynamic smoke exhaust ventilators with high thermal efficiency enclosures, designed for smoke evacuation in case of fire.</p>
	<p><a href="#"><b>SODECA: Ventiladores y Extractores Industriales para Atmósferas Explosivas ATEX</b></a></p> <p>Descubra la gama de ventiladores y extractores industriales 'Heavy Duty' de SODECA, diseñados para aplicaciones exigentes, incluyendo atmósferas explosivas (ATEX), entornos marinos, químicos y más. Cumplimiento de normativas y alta eficiencia.</p>
	<p><a href="#"><b>Mitsubishi Electric LOSSNAY Ventilation Systems: ERV and HRV Solutions</b></a></p> <p>Explore Mitsubishi Electric's LOSSNAY lineup, featuring Energy Recovery Ventilation (ERV) and Heat Recovery Ventilation (HRV) systems designed to optimize indoor air quality and energy efficiency for commercial and residential applications. Discover product details, specifications, and installation guidance.</p>

Documents - Sodeca – Unirec-50-S

	<p><a href="#"><b>SODECA Catálogo de Preços Março 2022: Soluções de Ventilação e Purificação de Ar</b></a></p> <p>Consulte a tabela de preços de março de 2022 da SODECA para soluções de ventilação e purificação de ar. Descubra ventiladores industriais e domésticos, sistemas de desenfumagem, pressurização e mais.</p> <p>lang:pt score:18 filesize: 22.2 M page_count: 174 document date: 2022-02-18</p>
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