

## Sodeca 1105709

# Sodeca REB-40 Heat Recovery Unit User Manual

Model: 1105709

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, installation, and maintenance of the Sodeca REB-40 Heat Recovery Unit. Please read this manual thoroughly before installation or operation and keep it for future reference.

The Sodeca REB-40 is a high-efficiency heat recovery unit designed for ventilation systems, featuring EC technology and an integrated bypass. It is engineered to provide optimal air quality and energy savings by recovering heat from exhaust air.

## 2. SAFETY INFORMATION

Always adhere to local regulations and safety standards during installation, operation, and maintenance. Disconnect power before any service or maintenance work.

- Ensure proper grounding of the unit.
- Do not operate the unit with damaged components.
- Only qualified personnel should perform electrical connections and complex maintenance.
- Keep the unit clear of obstructions to ensure proper airflow.

## 3. PRODUCT OVERVIEW

The Sodeca REB-40 is a compact heat recovery unit designed for efficient air exchange and energy conservation. Key features include:

- **EC Technology:** Ensures low electrical consumption and precise control.
- **Built-in Bypass:** 100% automatic bypass for optimal temperature control, especially during warmer periods.
- **High Efficiency:** Heat recovery efficiency up to 86%.
- **Counterflow Plate Heat Exchanger:** Maximizes heat transfer.
- **Low Profile Design:** Suitable for false ceiling installation.
- **Durable Construction:** Galvanized steel structure with anti-condensation foam coating and expanded

polypropylene interior for models 15 to 120. Aluminum profile structure with pre-lacquered sheet and thermal/acoustic insulation panels for larger models.



Figure 1: Sodeca REB-40 Heat Recovery Unit. This image shows the overall appearance of the unit, a rectangular white box with air inlets/outlets on one side and a control panel on the front.



Figure 2: Sodeca REB-40 Heat Recovery Unit with dimensions. The unit measures approximately 106.8 cm in length, 81.3 cm in width, and 28 cm in height. These dimensions are crucial for installation planning.

4. SPECIFICATIONS

Parameter	Value
Brand	Sodeca
Model Number	1105709 (REB-40)
Dimensions (L x W x H)	106.8 x 81.3 x 28 cm

Parameter	Value
Weight	39 kg
Maximum Airflow Capacity	480 m³/h
Heat Recovery Efficiency	Up to 86%
Special Features	EC Technology, Heat Recovery, Automatic Bypass
Material	Aluminum (structure for larger models), Galvanized Steel (structure for smaller models like REB-40)
Control Type	Tactile (Touch)
Ventilation Type	Recirculation
Color	Grey

## 5. INSTALLATION

The Sodeca REB-40 is designed for installation in false ceilings or technical rooms. Proper installation is crucial for optimal performance and safety.

### 5.1. Pre-installation Checklist

- Verify that the installation location can support the unit's weight (39 kg).
- Ensure adequate space for maintenance access (side access).
- Confirm power supply compatibility (50/60 Hz).
- Prepare necessary ductwork and electrical connections.

### 5.2. Mounting

Mount the unit securely using appropriate fasteners. Ensure the unit is level to facilitate proper drainage of condensate.

### 5.3. Ductwork Connection

Connect the supply and exhaust air ducts to the designated ports on the unit. Ensure airtight connections to prevent air leakage and maintain efficiency.

### 5.4. Electrical Connection

All electrical work must be performed by a qualified electrician in accordance with local electrical codes. Connect the unit to a grounded power supply. Refer to the wiring diagram provided with the unit for specific connections.

## 6. OPERATING INSTRUCTIONS

The REB-40 unit features intuitive controls for easy operation.

### 6.1. Initial Startup

1. After installation, ensure all connections are secure and power is supplied.

2. Turn on the main power switch to the unit.
3. The unit will perform a self-check.

## 6.2. Control Panel

The unit is equipped with tactile controls. Specific functions may include:

- **Power On/Off:** Activates or deactivates the unit.
- **Fan Speed Adjustment:** Allows regulation of airflow.
- **Bypass Mode:** The bypass operates automatically, but manual override might be available depending on the control system.
- **Filter Status Indicator:** Alerts when filters need cleaning or replacement.

Refer to the separate control panel manual for detailed instructions on specific control functions and settings.

## 7. MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your Sodeca REB-40 unit.

### 7.1. Filter Maintenance

The unit is equipped with particle filters. The frequency of cleaning or replacement depends on the operating environment and usage.

- Check filters every 1-3 months.
- Clean reusable filters with a vacuum cleaner or wash them if specified by the filter type.
- Replace disposable filters when they are visibly dirty or the filter status indicator illuminates.
- Access to filters is typically via the side maintenance panel.

### 7.2. Heat Exchanger Cleaning

Periodically inspect the heat exchanger for dust and debris accumulation. Clean gently with a soft brush or vacuum cleaner. Ensure the unit is powered off before cleaning.

### 7.3. Fan Inspection

Check the fans for any unusual noises or vibrations. Ensure fan blades are clean and free from obstructions. The low-consumption fans have integrated regulation and require minimal maintenance beyond cleaning.

### 7.4. Condensate Drain

Ensure the condensate drain is clear and free-flowing to prevent water buildup within the unit.

## 8. TROUBLESHOOTING

This section provides solutions to common issues. For problems not listed here, contact Sodeca technical support.

Problem	Possible Cause	Solution
Unit does not power on	No power supply; tripped circuit breaker; loose electrical connection.	Check power supply; reset circuit breaker; verify electrical connections (by qualified personnel).

Problem	Possible Cause	Solution
Reduced airflow	Clogged filters; obstructed ducts; fan malfunction.	Clean or replace filters; check ducts for obstructions; inspect fans.
Unusual noise from unit	Loose components; fan imbalance; foreign object in fan.	Inspect for loose parts; check fan blades for damage or debris.
Condensate overflow	Blocked condensate drain; improper unit leveling.	Clear condensate drain; ensure unit is level.

## 9. WARRANTY AND SUPPORT

Sodeca products are manufactured to high-quality standards. For warranty information and technical support, please refer to the warranty card included with your product or visit the official Sodeca website.

When contacting support, please have your model number (REB-40) and product reference (1105709) ready.

**Sodeca Contact Information:**

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

*Customer Service:* Refer to the website for regional contact details.