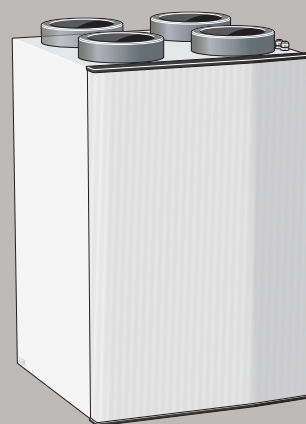
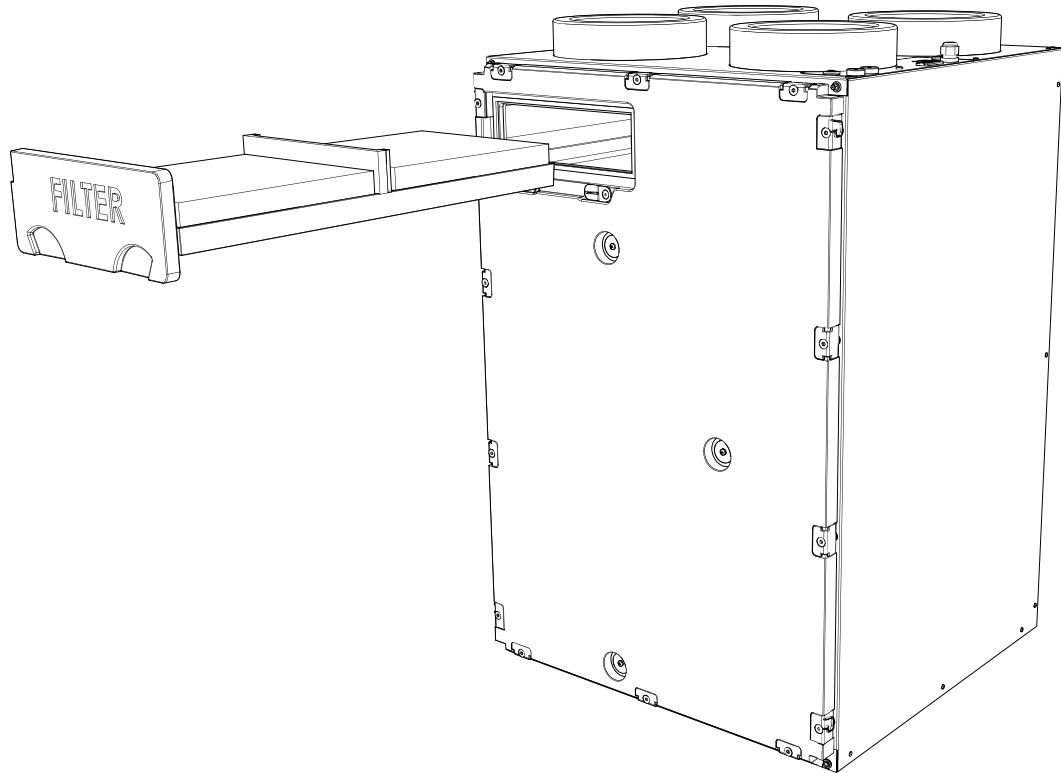
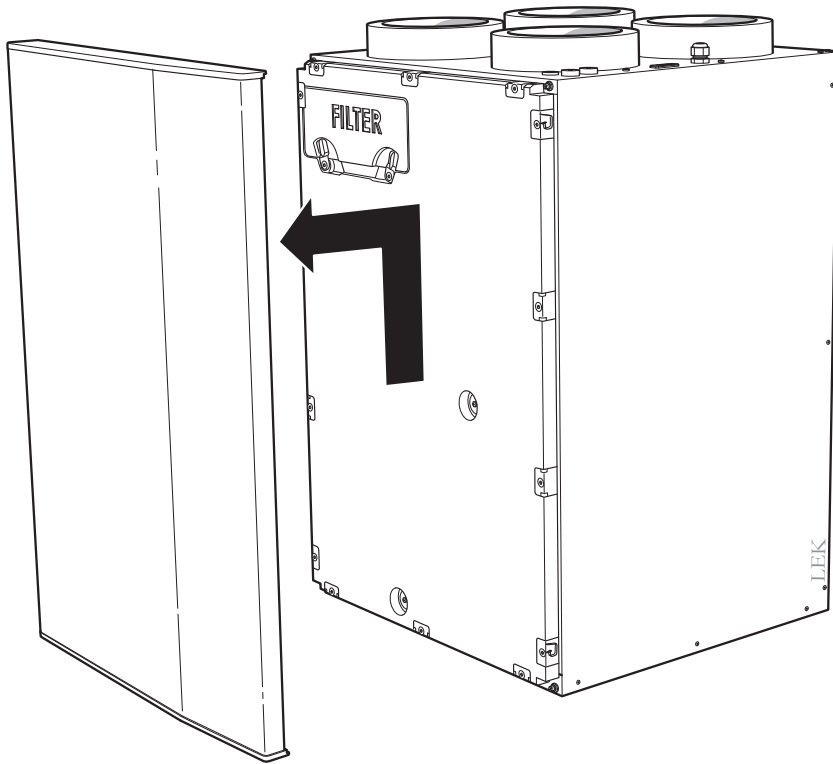


# HRV unit NIBE ERS S10-400





# Table of Contents

1	<i>Important information</i> _____	4
	Installation data _____	4
	Safety information _____	5
	Serial number _____	5
	Compatible products _____	5
2	<i>Function of the HRV unit</i> _____	6
3	<i>Maintenance of ERS S10</i> _____	7
	Regular checks _____	7
4	<i>Disturbances in comfort</i> _____	9
	Troubleshooting _____	9
	<i>Contact information</i> _____	10

# 1 Important information

## Installation data

<i>Product</i>	<i>ERS S10</i>
Serial number	
Installation date	
Installer	

<i>No.</i>	<i>Name</i>	<i>Fact. sett.</i>	<i>Set</i>
7.1.4.1	Fan speed, exhaust air	75%	
7.1.4.2	Fan speed, supply air	60%	
7.2.11	Vent. heat exchanger (ERS)		
	lowest extract air temp.	5 °C	
	bypass at excess temperature	4 °C	

### **Serial number must always be given**

It is hereby certified that the installation has been carried out in accordance with the instructions in the Installer manual and applicable regulations.

Date \_\_\_\_\_


Signed \_\_\_\_\_

# Safety information

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

This is an original manual. It may not be translated without the approval of NIBE. Rights to make any design or technical modifications are reserved.

©NIBE 2021.



Caution

You need the product's serial number for servicing and support.

## Compatible products


### S-SERIES

- S1155
  - S1255
- VVM S320
  - VVM S325
- SMO S40

### F-SERIES


- F1145
  - F1155
  - F1245
  - F1255
  - F1345
  - F1355
- VVM 310
  - VVM 320
  - VVM 325
  - VVM 500
- SMO 40

## SYMBOLS



NOTE

This symbol indicates danger to person or machine .

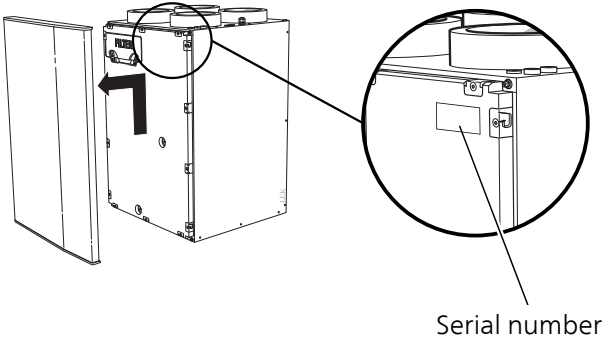


Caution

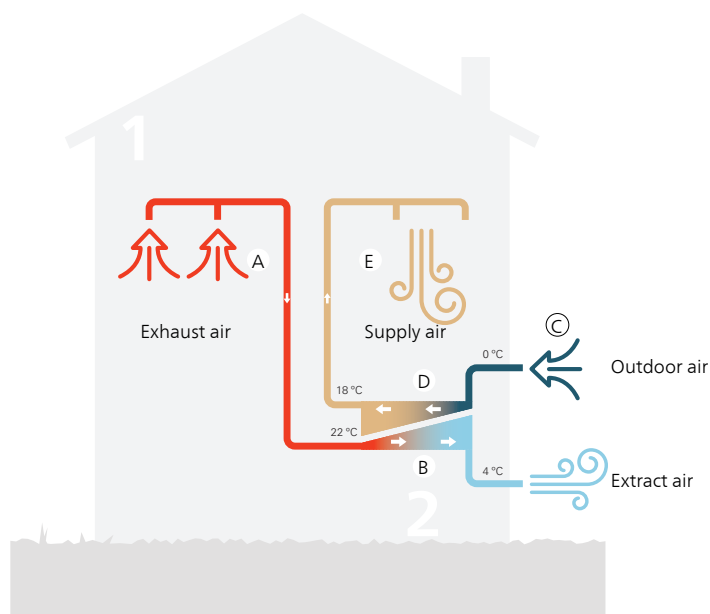
This symbol indicates important information about what you should observe when maintaining your installation.

## Serial number

The serial number can be found at the top right inside the front hatch.



## 2 Function of the HRV unit



An HRV unit is a ventilation heat exchanger that utilises the heat in the building's ventilation air to heat the incoming outdoor air. From the outgoing ventilation air (1), heating energy is recovered from the dwelling and transported to the HRV unit. In the heat exchanger (2), the heat from the indoor air is transferred to the incoming outdoor air.

### Ventilation air

- A** The hot air is transferred from the rooms to the HRV unit via the building's ventilation system using a fan.
- B** In the HRV unit, the air releases heat energy and the temperature drops significantly. The cold air is then blown out of the building.

### Outdoor air

- C** The outdoor air is transferred to the HRV unit via the building's ventilation system.
- D** In the HRV unit, the air absorbs the heat energy and the temperature is raised.
- E** A fan blows the heated air into those rooms that have supply air inlets.

The temperatures are only examples and may vary between different installations and time of year.

# 3 Maintenance of ERS S10

## Regular checks

Your HRV unit requires minimal maintenance after commissioning. However, it is recommended that you check your installation regularly.

If something unusual occurs, messages about the malfunction, in the form of different alarm texts, appear in the main product display.



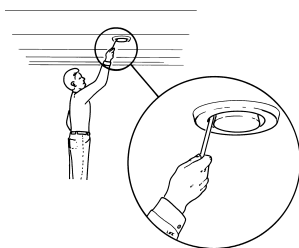
### NOTE

Always switch off the power and wait until the fans have stopped before opening ERS S10.

## CLEANING THE VENTILATION DEVICES

The building's ventilation devices should be cleaned regularly with, for example, a small brush to maintain the correct ventilation.

The device settings must not be changed.



### NOTE

If you take down more than one ventilation device for cleaning, do not mix them up.

## REPLACING THE AIR FILTER

The filters in ERS S10 are of a type that should not be cleaned, they have to be replaced instead. These must be replaced regularly; how often depends e.g. on the amount of dust in the ventilation air. Test to find out what is most appropriate for your installation.



### Caution

The efficiency of the installation can be reduced by a dirty air filter.

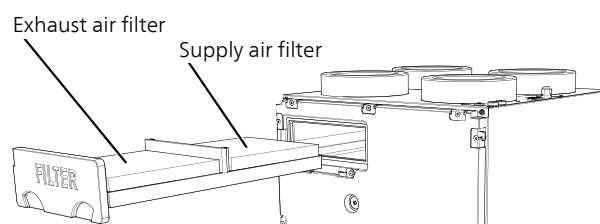
In the main product's display, you will receive a reminder to check the filters. The factory setting for reminders is every three months.

1. Switch off the power.
2. Remove the front hatch by lifting it slightly and then pulling it towards you.
3. Pull out the filter cassettes.
4. Check the condition of the filters and replace if needed.
5. Carry out assembly in reverse order.

Even if the filters look clean, dirt collects in them and this affects the efficiency of the filters. For this reason, replace them after approx. 1 years. New filters can be ordered via a dealer for NIBE.

Exhaust air filter: Coarse 65%

Supply air filter: ePM1 55%



## CHECK THE WATER LOCK FOR CONDENSATION WATER

The water seal must be checked at least once a year, ideally in the autumn.

The water seal is located outside ERS S10. Contact your installer if you are unsure of where to find it.

No condensation water is generated in the HRV unit during the warm period of the year and the water seal will dry out.

During the colder parts of the year, ERS S10 can produce several litres of condensation water every day. If the condensation outlet is not working, this may cause water damage inside the home.

The water seal must not dry out during this part of the year, because air will be drawn into the HRV unit due to the negative pressure in the unit, which will then prevent the condensation water from running out.

1. Check that the condensation drain and the water seal are not clogged with dirt.
2. Pour approx. one litre of water into the water seal.
3. Check that the water runs through unobstructed.

## CLEANING THE HEAT EXCHANGER

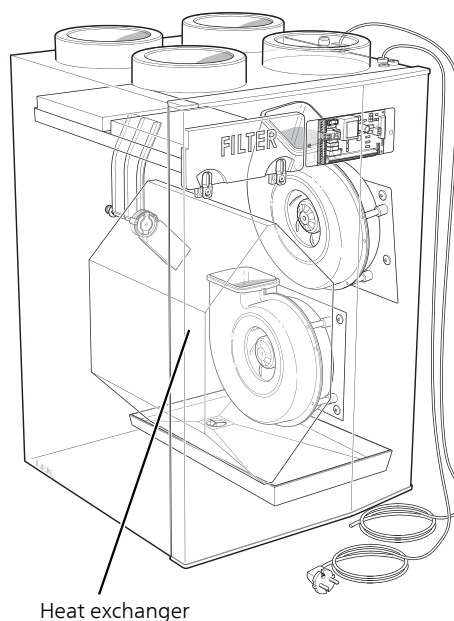
Check the heat exchanger every other year and clean if necessary. Avoid contact with the fins.



### Caution

Do not damage the fins. If you are unsure, contact your installer for help with cleaning.

1. Remove the heat exchanger by pressing gently from the rear.
2. Clean the heat exchanger carefully, e.g. with a vacuum cleaner. If necessary, you can use warm water and mild soap.





# 4 Disturbances in comfort

In most cases, the main product notes a malfunction (a malfunction can lead to disturbance in comfort) and indicates this with alarms and shows action instructions in the display.

## Troubleshooting

If the operational interference is not shown in the display the following tips can be used:

### BASIC ACTIONS

Start by checking the following items:

- That the main product is running and that the supply cable to ERS S10 is connected.
- Group and main fuses of the accommodation.
- The property's earth circuit breaker.

### LOW OR A LACK OF VENTILATION

- Filters blocked.
  - Replace the filters.
- The ventilation is not adjusted.
  - Order ventilation adjustment.
- Closed, too much choke or blocked ventilation device.
  - Check and clean ventilation valves (see page 7).
- Fan speed in reduced mode.
  - Enter the main product's menu 1.2.1 and select "normal".
- External switch for changing the fan speed activated.
  - Check any external switches.
- Fan running slow because of low incoming outdoor air temperature.
  - Contact the installer in the event of recurring problems.

### HIGH OR DISTRACTING VENTILATION

- Filters blocked.
  - Replace the filters.

- The ventilation is not adjusted.
  - Order ventilation adjustment.
- Closed, too much choke or blocked ventilation device.
  - Check and clean ventilation valves (see page 7).
- Fan speed in forced mode.
  - Enter the main product's menu 1.2.1 and select "normal".
- External switch for changing the fan speed activated.
  - Check any external switches.
- Silencers not correctly installed.
  - Contact your installer!



## Contact information

### AUSTRIA

KNV Energietechnik GmbH  
Gahberggasse 11, 4861 Schörfling  
Tel: +43 (0)7662 8963-0  
mail@knv.at  
knv.at

### CZECH REPUBLIC

Družstevní závody Dražice - strojírna  
s.r.o.  
Dražice 69, 29471 Benátky n. Jiz.  
Tel: +420 326 373 801  
nibe@nibe.cz  
nibe.cz

### DENMARK

Vølund Varmeteknik A/S  
Industrivej Nord 7B, 7400 Herning  
Tel: +45 97 17 20 33  
info@volundvt.dk  
volundvt.dk

### FINLAND

NIBE Energy Systems Oy  
Juurakkotie 3, 01510 Vantaa  
Tel: +358 (0)9 274 6970  
info@nibe.fi  
nibe.fi

### FRANCE

NIBE Energy Systems France SAS  
Zone industrielle RD 28  
Rue du Pou du Ciel, 01600 Reyrieux  
Tél: 04 74 00 92 92  
info@nibe.fr  
nibe.fr

### GERMANY

NIBE Systemtechnik GmbH  
Am Reiherpfahl 3, 29223 Celle  
Tel: +49 (0)5141 75 46 -0  
info@nibe.de  
nibe.de

### GREAT BRITAIN

NIBE Energy Systems Ltd  
3C Broom Business Park,  
Bridge Way, S41 9QG Chesterfield  
Tel: +44 (0)845 095 1200  
info@nibe.co.uk  
nibe.co.uk

### NETHERLANDS

NIBE Energietechnik B.V.  
Energieweg 31, 4906 CG Oosterhout  
Tel: +31 (0)168 47 77 22  
info@nibenl.nl  
nibenl.nl

### NORWAY

ABK-Qviller AS  
Brobekkveien 80, 0582 Oslo  
Tel: (+47) 23 17 05 20  
post@abkqviller.no  
nibe.no

### POLAND

NIBE-BIAWAR Sp. z o.o.  
Al. Jana Pawła II 57, 15-703 Białystok  
Tel: +48 (0)85 66 28 490  
biawar.com.pl

### RUSSIA

EVAN  
bld. 8, Yuliusa Fuchika str.  
603024 Nizhny Novgorod  
Tel: +7 831 288 85 55  
info@evan.ru  
nibe-evan.ru

### SWEDEN

NIBE Energy Systems  
Box 14  
Hannabadsvägen 5, 285 21 Markaryd  
Tel: +46 (0)433-27 3000  
info@nibe.se  
nibe.se

### SWITZERLAND

NIBE Wärmetechnik c/o ait Schweiz  
AG  
Industriepark, CH-6246 Altishofen  
Tel. +41 (0)58 252 21 00  
info@nibe.ch  
nibe.ch

For countries not mentioned in this list, contact NIBE Sweden or check [nibe.eu](http://nibe.eu) for more information.

NIBE Energy Systems  
Hannabadsvägen 5  
Box 14  
SE-285 21 Markaryd  
info@nibe.se  
nibe.eu

UHB EN 2110-3 531582

This manual is a publication from NIBE Energy Systems. All product illustrations, facts and data are based on the available information at the time of the publication's approval. NIBE Energy Systems makes reservations for any factual or printing errors in this manual.

©2021 NIBE ENERGY SYSTEMS

