

Exhaust air module
NIBE S135

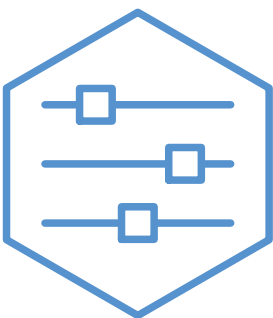


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Important information

Installation data

Product	S135
Serial number	
Installation date	
Installer	

No.	Name	Fact. sett.	Set
7.1.4.1	Fan speed, exhaust air (Normal)	75%	
7.2.13	Exhaust air module (S135) - Charge pump speed	70%	

Serial number must always be given.

Certification that the installation is carried out according to instructions in the accompanying installer manual and applicable regulations.

Date _____ Signed _____

Safety information

For the latest version of the product's documentation, see nibe.eu.

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.

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Do not start S135 if there is a risk that the water in the system has frozen.

If the supply cable is damaged, only NIBE, its service representative or similar authorised person may replace it to prevent any danger and damage.

SYMBOLS

Explanation of symbols that may be present in this manual.



CAUTION!

This symbol indicates danger to person or machine.

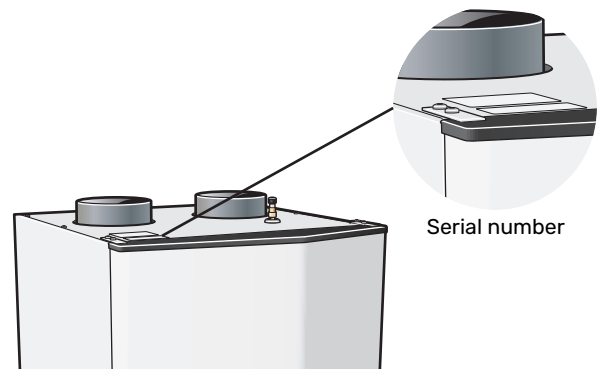


NOTE!

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

Serial number

The serial number can be found to the left, on top of S135.



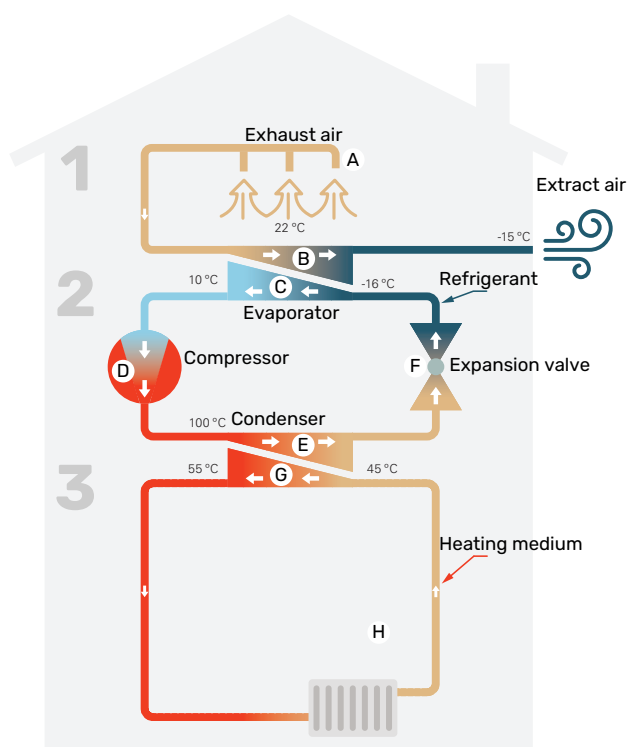
NOTE!

You need the product's (14 digit) serial number for servicing and support.

Compatible products

- VVM S320
- VVM S325
- VVM S330
- MHB 05
- SMO S40
- SVM S332

The exhaust air module - part of the heart of the house



- E From the compressor, gas is forced into a heat exchanger, condenser, where it releases heat energy to the heating system in the house, whereupon the gas is cooled and condenses to a liquid form again.
- F As the pressure is still high, the refrigerant can pass an expansion valve, where the pressure drops so that the refrigerant returns to its original temperature. The refrigerant has now completed a full cycle. It is routed to the evaporator again and the process is repeated.

Heat medium circuit

- G The heat energy that the refrigerant produces in the condenser is retrieved by the climate system's water, heating medium, which is heated to 55 °C (supply temperature).

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

The function of the exhaust air module

An exhaust air module uses the heat that is in the building's ventilation air to heat up the house. The ventilation air's energy is converted into residential heating in three different circuits. From the outgoing ventilation air (1), heating energy is recovered from the home and transported to the exhaust air module. The exhaust air module increases the recovered heat's low temperature to a high temperature in the refrigerant circuit (2). The heat is distributed around the house in the heating medium circuit (3).

Ventilation air

- A The hot air is transferred from the rooms to the heat pump via the exhaust air module.
- B The fan then routes the air to the exhaust air module's evaporator. Here, the air releases thermal energy to the brine and the air's temperature drops significantly. The cold air (extract air) is then blown out of the house.

Refrigerant circuit

- C A liquid, a refrigerant, circulates in a closed system in the exhaust air module, which also passes the evaporator. The refrigerant has a very low boiling point. In the evaporator the refrigerant receives the heat energy from the ventilation air and starts to boil.
- D The gas that is produced during boiling is routed into an electrically powered compressor. When the gas is compressed, the pressure increases and the gas's temperature increases considerably, from approx. 5°C to approx. 80°C.

Maintenance of S135

REGULAR CHECKS

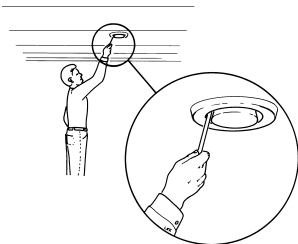
Your exhaust air module requires minimal maintenance after commissioning. However, it is recommended that you check your installation regularly.

If anything unusual occurs, messages about the malfunction appear on the indoor module's display in the form of various alarm texts.

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.



CAUTION!

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

Cleaning the air filter

The air filter in S135 has to be cleaned regularly; how often depends, for example, on the quantity of particles in the ventilation air. Test, to find out what is most appropriate for your installation.



NOTE!

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

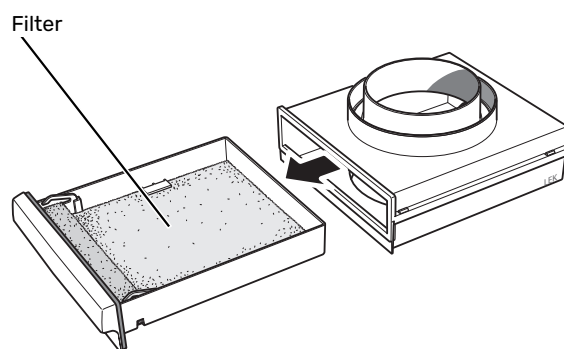
1. Switch off the main product with the on/off button.
2. Open the filter cover.
3. Pull out the filter cassette.
4. Remove the filter and shake/vacuum it clean.
5. Check the condition of the filter and replace if needed.
6. Carry out assembly in reverse order.

Even if the filter looks clean, dirt collects in it and this affects the efficiency of the filter. For this reason, replace the filter at least once a year. A new filter can be ordered via a dealer for NIBE or at nibe.eu.



CAUTION!

Water or other liquids must not be used for cleaning.



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 feed cable is connected to S135.
- Group and main fuses of the accommodation.
- The property's earth circuit breaker.

LOW OR NO VENTILATION

- Filter blocked.
 - Clean or replace the filter.
- The ventilation is not adjusted.
 - Order ventilation adjustment.
- Exhaust air device blocked or throttled down too much.
 - Check and clean the exhaust air devices.
- Fan speed in reduced mode.
 - Enter menu 1.2.1 - "Fan speed" and select "Normal"

HIGH OR DISTURBING VENTILATION

- Filter blocked.
 - Clean or replace the filter.
- The ventilation is not adjusted.
 - Order ventilation adjustment.
- Fan speed in forced mode.
 - Enter menu 1.2.1 - "Fan speed" and select "Normal"

THE COMPRESSOR DOES NOT START

- There is no heating requirement.
 - The main unit does not call on heating.
- The heat pump defrosts.
 - The compressor starts, when defrosting is complete.

GURGLING SOUND

- Not enough water in the water seal.
 - Refill the water seal with water.
- Choked water seal.

Contact information

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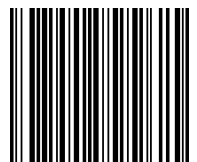
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