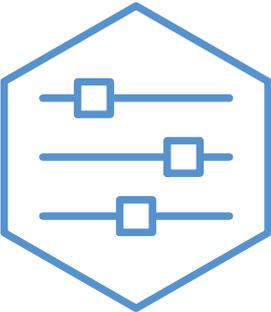


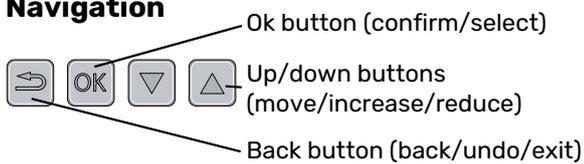
Hot water heat pump  
**NIBE F130**

---



## Quick guide

### Navigation



A detailed explanation of the button functions can be found on page 9.

How to scroll through menus and make different settings is described on page 10.

### Increase hot water volume



To temporarily increase the amount of hot water, first press the down button to mark menu 2 (water droplet) and then press the OK button twice. Read more about the settings on page 13.

### In event of disturbances in comfort

If a disturbance in comfort of any type occurs there are some measures that can be taken before you need to contact your installer. See page 17 for instructions.

# Table of Contents

1	Important information .....	4
	Installation data .....	4
	Safety information .....	5
	Serial number .....	5
	F130 – An excellent choice .....	6
2	The heat pump – the heart of the house ..	7
	Heat pump function .....	8
	Contact with F130 .....	9
	Maintenance of F130 .....	11
3	F130 – at your service .....	12
	Set the ventilation .....	12
	Set the hot water capacity .....	13
	Get information .....	15
	Adjust the heat pump .....	16
4	Disturbances in comfort .....	17
	Info menu .....	17
	Manage alarm .....	17
	Troubleshooting .....	17
5	Technical data .....	19
6	Glossary .....	20
	Item register .....	21
	Contact information .....	23

# Important information

## Installation data

Product	F130
Serial number	
Installation date	
Installer	

No.	Name	Fact. sett.	Set
5.1.5	Exhaust air installation (fan sp. exhaust air, normal)	70%	

<input checked="" type="checkbox"/>	Accessories
	Water heater VPD 10

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](http://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 F130 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.



#### TIP!

This symbol indicates tips on how to facilitate using the product.

### Marking

Explanation of symbols that may be present on the product's label(s).



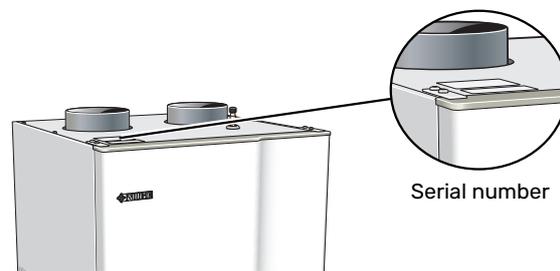
Read the User Manual.



Read the Installer Manual.

## Serial number

The serial number can be found to the left, on top of F130.



#### NOTE!

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

## F130 – An excellent choice

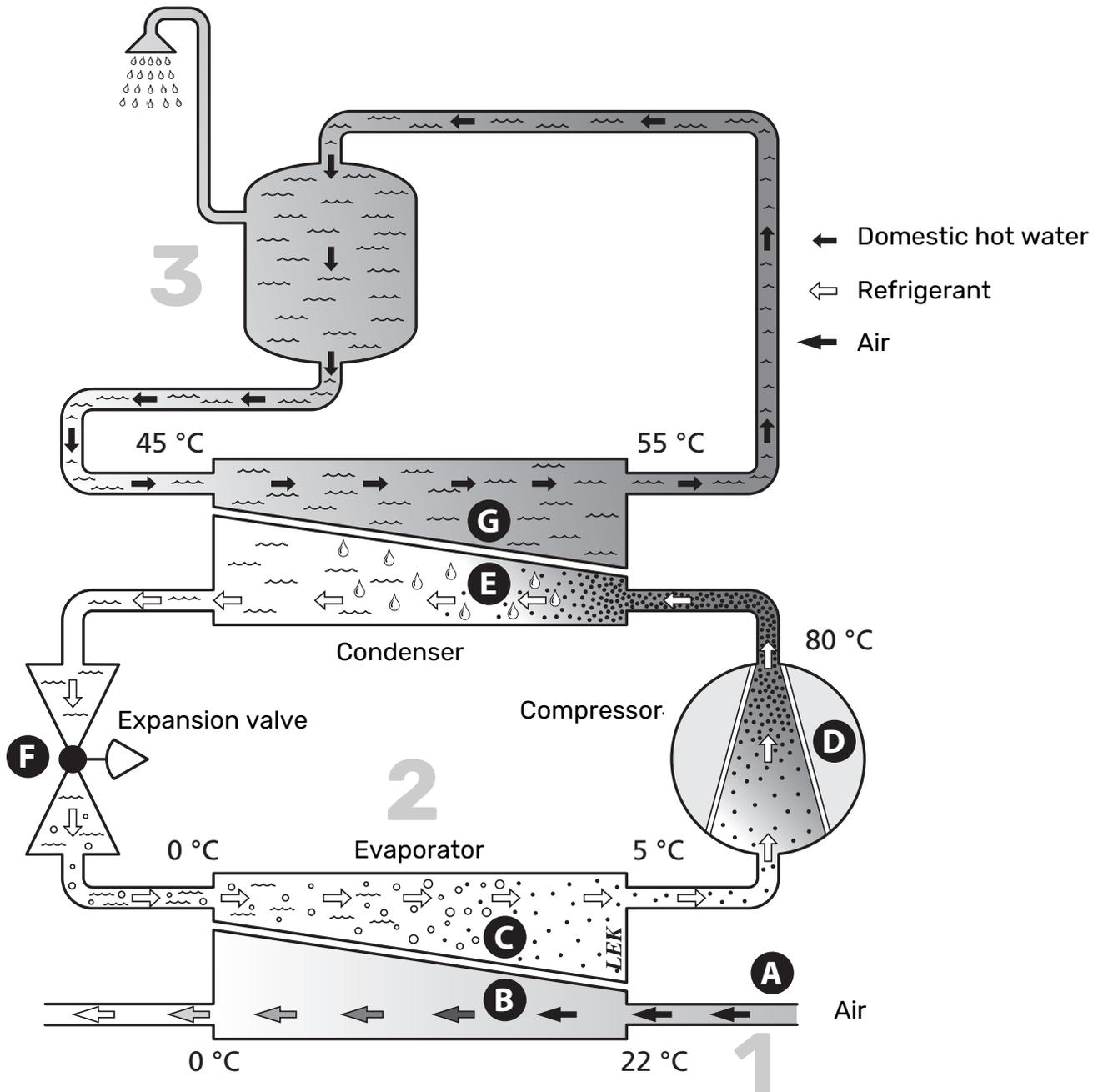
F130 is part of the generation of heat pumps that have been developed to supply your home with inexpensive and environmentally friendly hot water in the most efficient way. Hot water production is safe and economical with an external water heater and integrated control system.

F130 is equipped with a control computer to give you good comfort, good economy and safe operation. Information about status, operating time and all temperatures in the heat pump are shown on the clear display.

### **EXCELLENT PROPERTIES FOR F130:**

- *Scheduling hot water and ventilation*  
Hot water and ventilation can be scheduled for each day of the week or for longer periods (vacation).
- *Display with user instructions*  
The heat pump has a display with easy-to-understand menus that facilitate setting a comfortable hot water level.
- *Simple troubleshooting*  
In the event of a fault, the heat pump display shows what happened.

# The heat pump – the heart of the house



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

## Heat pump function

The heat pump uses the heat that is in the air to heat up the domestic hot water. The conversion of the air's energy to hot water occurs in three different circuits. Heating energy is recovered from the outgoing exhaust air or the surrounding indoor air (1) and transported to the heat pump. The heat pump raises the recovered heat's low temperature to a high temperature in the refrigerant circuit (2). The heat is then distributed to the water heater (3).

### The air

- A** Air is transferred from the rooms in the house and via ducts to the heat pump.
- B** The fan then routes the air to the heat pump's evaporator. Here, the air releases the heating energy to the brine and the air's temperature drops significantly. The cold air is then blown out of the house or into a room in the house.

### Refrigerant circuit

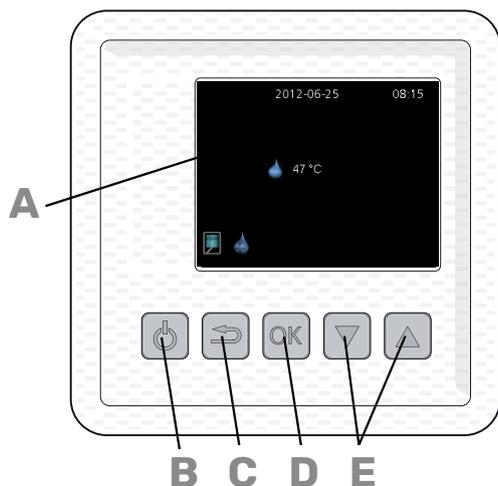
- C** A liquid, a refrigerant, circulates in a closed system in the heat pump which also passes the evaporator. The refrigerant has a very low boiling point. In the evaporator the refrigerant receives the heat energy from the air and starts to boil.
- D** The gas that is produced during boiling is routed 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.
- E** From the compressor, gas is forced into a heat exchanger, condenser, where it releases heat energy to the domestic hot water, 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.

### Domestic hot water

- G** The heat energy that the refrigerant produces in the condenser is retrieved by the domestic hot water which is heated to the set temperature.

# Contact with F130

## DISPLAY UNIT



There is a display unit on F130, which is used to communicate with F130. Here you:

- set the hot water and ventilation, if any, as well as adjust the heat pump to your needs.
- receive information about settings, status and events.
- see different types of alarms.

**A Display**  
Instructions, settings and operational information are shown on the display.

**B Stand-by button**  
F130 can be switched to stand-by mode using the standby button. The compressor and fan are then switched off. Hold the button in for three seconds to activate/deactivate standby mode.

**C Back button**  
The back button is used to:

- go back to the previous menu.
- change a setting that has not been confirmed.

**D OK button**  
The OK button is used to:

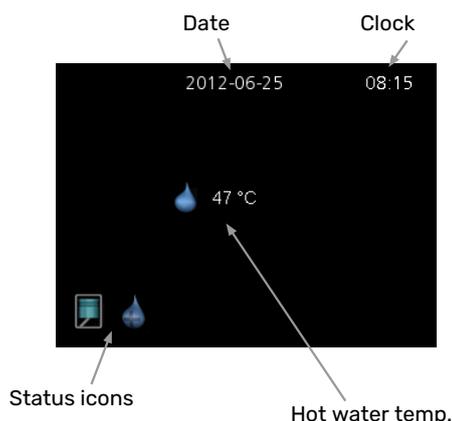
- confirm selections of sub menus/options/set values.

**E Up and down buttons**  
With the up and down buttons you can:

- scroll in menus and between options.
- increase and decrease the values.

## MENU SYSTEM

When F130 is started you come to the information menu. Basic information about the heat pump status is shown here.

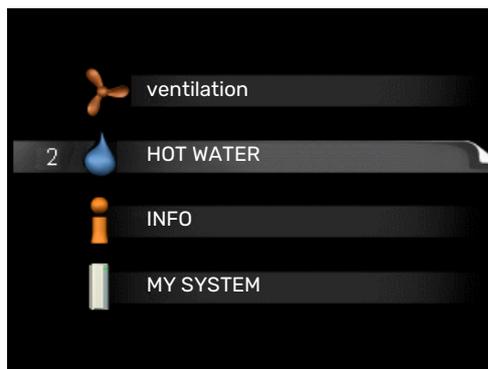


The information menu shows:

- on starting.
- when the back button in the main menu is pressed.
- after 15 minutes of inactivity.

Press any button to go to the main menu.

## Main menu



The menu system's main menus are shown here.

## MENU 1 - VENTILATION

Setting the ventilation. See page 12.

## MENU 2 - HOT WATER

Setting and scheduling hot water production. See page 13.

## MENU 3 - INFO

Display of temperatures and other operating information and access to the alarm log. See page 15.

## MENU 4 - MY SYSTEM

Setting time, date, language, etc. See page 16.

## Symbols in the display

The following symbols may appear on the display during operation.

Symbol	Description
	This symbol is displayed when the compressor is operating.
	This symbol appears when the speed of the fan is changed from its normal setting.
	This symbol appears when lux mode for hot water is activated or when periodic increase is active.
	This symbol appears when "scheduling" is activated in menu 2.3.
	This symbol appears when "holiday setting" is activated in menu 4.7.

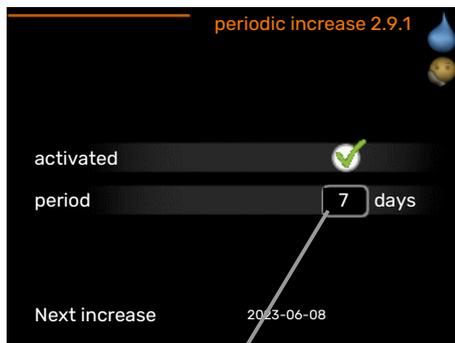
## Operation

To move the cursor, press the up or down button. The marked position is brighter and/or has a turned up tab.

## Selecting menu

To advance in the menu system select a sub-menu by marking it by using the up and down buttons and then pressing the OK button.

## Setting a value



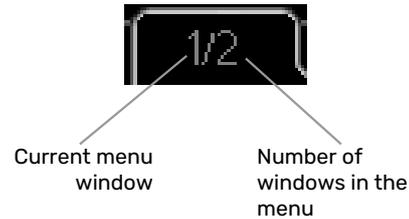
Adjustable value

To set a value:

1. Mark the value you want to set using the up or down button. 
2. Press the OK button. The background of the value becomes green, which means that you have accessed the setting mode. 
3. Press the up button to increase the value or the down button to reduce the value. 
4. Press the OK button to confirm the value you have set. To undo and return to the original value, press the back button. 

## Scroll through the windows

A menu can consist of several windows. Mark the page number, using the up and down keys, in the upper left corner and then press the OK button to switch between the windows.



## Scroll through the windows in the start guide



Arrows to scroll through windows in the start guide

1. Mark, using the up and down keys, one of the arrows in the top left corner (at the page number).
2. Press the OK button to scroll between the windows in the start guide.

# Maintenance of F130

## REGULAR CHECKS

Your heat pump requires minimal maintenance after commissioning. On the other hand, it is recommended that you check your installation regularly.

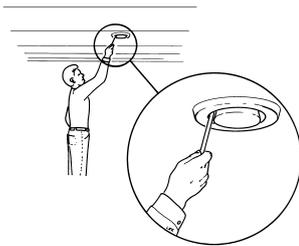
If something unusual occurs, messages about the malfunction appear in the display in the form of different alarm texts. See alarm management on page 17.

## Exhaust air installation

### 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 F130 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.

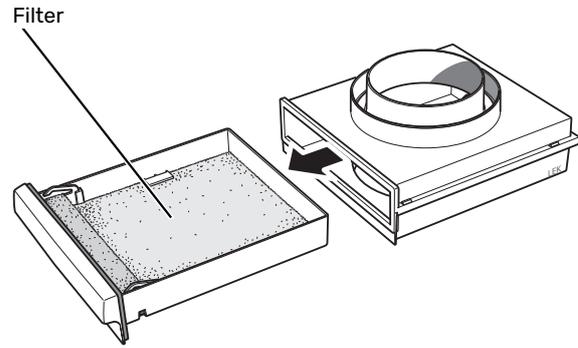
1. Switch off the fan in F130 by holding the standby button for 3 seconds. (Display turns off.)
2. Pull out the filter cassette.
3. Remove the filter and shake/vacuum it clean.
4. Check the condition of the filter and replace if needed.
5. Carry out assembly in reverse order.

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](http://nibe.eu).



### CAUTION!

Water or other liquids must not be used for cleaning.



## EMPTYING

If F130 is drained because the house will not be used for some time for example, the heat pump must be filled again before restarting to avoid damage to the constituent components.



### NOTE!

The heat pump is started when the supply cable is connected to an earthed socket.

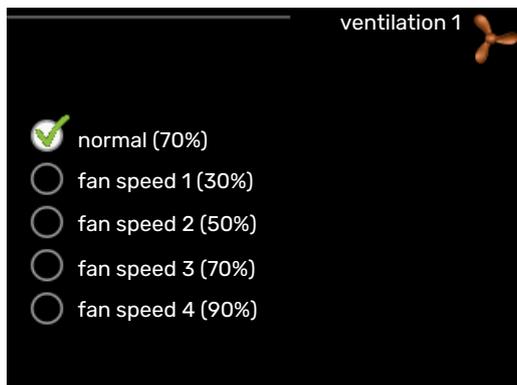
# F130 – at your service

## Set the ventilation

### MENU 1 - VENTILATION

Setting range: normal and speed 1-4

Default value: normal



This menu is only shown with exhaust air installation.

The ventilation in the accommodation can be temporarily increased or reduced here.

When a new speed has been selected, a countdown is initiated. After 4 hours, the ventilation speed returns to the normal setting.

The fan speed is shown in brackets (in percent) after each speed alternative.



#### TIP!

If longer time changes are required use the holiday function.



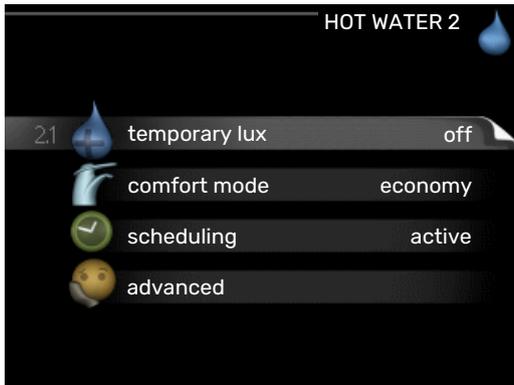
#### NOTE!

The heat pump requires a minimum ventilation flow in order to work properly. An insufficient ventilation flow can result in an alarm and blocking of compressor operation.

# Set the hot water capacity

## OVERVIEW

### Sub-menus



This menu only appears if a water heater is docked to the heat pump.

For the menu **HOT WATER** there are several sub-menus. Status information for the relevant menu can be found on the display to the right of the menus.

**temporary lux** Activation of temporary increase in the hot water temperature. Status information displays "off" or what length of time of the temporary temperature increase remains.

**comfort mode** Setting hot water comfort. The status information displays what mode is selected, "economy", "normal" or "luxury".

**scheduling** Scheduling hot water comfort. Status information "active" displays if the scheduling is active right now, the status information "set" displays if the scheduling is set but not active.

**advanced** Setting periodic increase in the hot water temperature.

### MENU 2.1 - TEMPORARY LUX

Setting range: 3, 6 and 12 hours and mode "off" and "one time increase"

Default value: "off"



When hot water requirement has temporarily increased this menu can be used to select an increase in the hot water temperature to lux mode for a selectable time.

**NOTE!**  
If comfort mode "luxury" is selected in menu 2.2 no further increase can be carried out.

The function is activated immediately when a time period is selected and confirmed using the OK button. The remaining time for the selected setting is shown to the right.

When the time has run out F130 returns to the mode set in menu 2.2.

Select "off" to switch off **temporary lux**.

### MENU 2.2 - COMFORT MODE

Setting range: economy, normal, luxury

Default value: normal

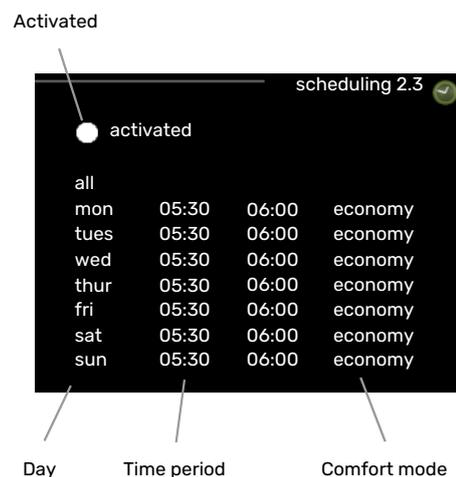
The difference between the selectable modes is the temperature of the hot tap water. Higher temperature means that the hot water lasts longer.

*economy:* This mode produces less hot water than the others, but is more economical.

*normal:* Normal mode gives a larger amount of hot water and is suitable for most households.

*luxury:* Lux mode gives the greatest possible amount of hot water.

### MENU 2.3 - SCHEDULING



What hot water comfort the heat pump is to work with can be scheduled here.

Scheduling is activated/deactivated by ticking/unticking "activated". Set times are not affected at deactivation.

*Activated:* Scheduling for the selected period is activated here. Set times are not affected at deactivation.

*Day:* Select which day or days of the week the scheduling is to apply to here. To remove the scheduling for a particular day, the time for that day must be reset by setting the start time to the same as the stop time. If the row "all" is used, all days in the period are set according to that row.

*Time period:* The start and stop time for the selected day for scheduling are selected here.

*Comfort mode:* Set the hot water comfort that is to apply during scheduling here.



#### TIP!

If you wish to set similar scheduling for every day of the week start by filling in "all" and then changing the desired days.



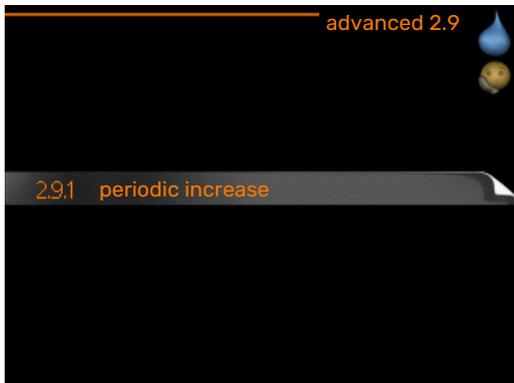
#### NOTE!

If the stop time is earlier in the day than the start time it means that the period extends past midnight.

Scheduling always starts on the date that the start time is set for.

If time periods overlap each other at midnight, the time period that starts after midnight is prioritised.

## MENU 2.9 - ADVANCED



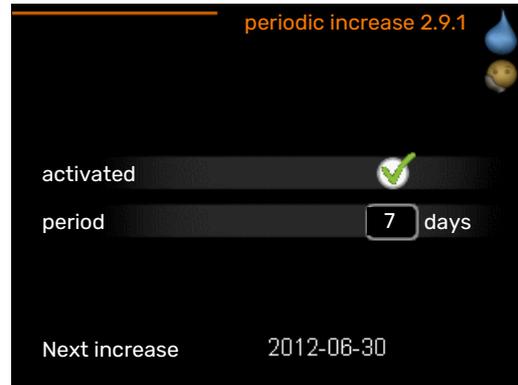
Menu **advanced** has orange text and is intended for the advanced user. This menu has a sub-menu.

## MENU 2.9.1 - PERIODIC INCREASE

### period

Setting range: 1 - 90 days

Factory reset: activated, 7 days



To prevent bacterial growth in the water heater, the heat pump can increase the hot water temperature for a short time at regular intervals.

Here, you can select the length of time between increases in the hot water temperature. The time can be set between 1 and 90 days. Factory setting is 7 days. Tick/untick "activated" to start/switch off the function.

# Get information

## OVERVIEW

### Sub-menus

For the menu **INFO** there are several sub-menus. No settings can be made in these menus, they just display information.

**service info** shows temperature levels and software versions in the heat pump.

**compressor info** shows operating times, number of starts and status for the compressor.

**alarm log** displays the latest alarm and information about the heat pump when the alarm occurred.

### MENU 3.1 - SERVICE INFO

Information about the actual operating status of the installation (e.g. current temperatures etc.) can be obtained here. No changes can be made.

The information is on several pages. Push the up and down buttons to scroll between the pages.

Symbols in this menu:			
	Compressor		
	Ventilation (only shown with exhaust air installation)		Periodic increase or lux mode for hot water
	Scheduling		Holiday setting

### MENU 3.2 - COMPRESSOR INFO

Information about the compressor's operating status and statistics can be obtained here. No changes can be made.

### MENU 3.4 - ALARM LOG

To facilitate fault-finding the heat pump operating status at alarm alerts is stored here. You can see information for the 10 most recent alarms.

To view the run status in the event of an alarm, mark the alarm and press the OK button.

Information about an alarm.

# Adjust the heat pump

## OVERVIEW

### Sub-menus



For the menu **MY SYSTEM** there are several sub-menus. Status information for the relevant menu can be found on the display to the right of the menus.

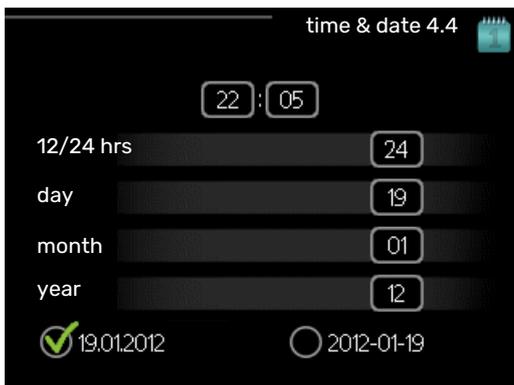
**time & date** Setting current time and date. Status information displays the time.

**language** Select the language for the display here. The status information shows the selected language.

**holiday setting** Vacation scheduling hot water and ventilation. Status information "set" is displayed if you set a vacation schedule but it is not active at the moment, "active" is displayed if any part of the vacation schedule is active, otherwise it displays " off".

**advanced** Resetting all settings to factory default values.

### MENU 4.4 - TIME & DATE



Set time and date and display mode here.

### MENU 4.6 - LANGUAGE



Choose the language that you want the information to be displayed in here.

### MENU 4.7 - HOLIDAY SETTING

To reduce energy consumption you can schedule a reduction in hot water temperature and any ventilation.

The vacation scheduling starts at 00:00 on the start date and stops at 23:59 on the stop date.



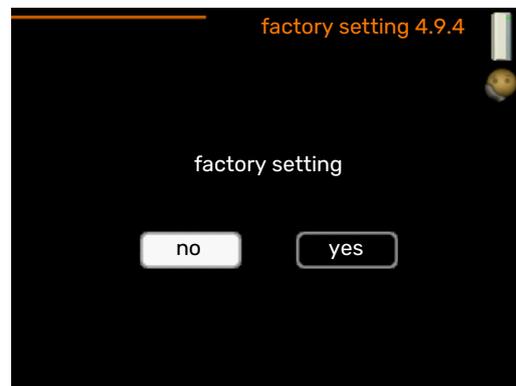
#### TIP!

Finish the holiday setting about a day before your return, so the hot water temperature has time to regain usual levels.

### MENU 4.9 - ADVANCED

Menu **advanced** has orange text and is intended for the advanced user. This menu has a sub-menu.

### MENU 4.9.4 - FACTORY SETTING



All settings that are available to the user (including advanced menus) can be reset to default values here.

After factory settings, user settings must be reset.

# Disturbances in comfort

In most cases, the heat pump notes operational interference (operational interference can lead to disturbance in hot water comfort) and indicates this with an alarm in the display.

## Info menu

All the heat pump measurement values are gathered under menu 3.1 in the heat pump menu system. Looking through the values in this menu can often simplify finding the source of the fault.

## Manage alarm



In the event of an alarm, a malfunction has occurred, which is indicated by an alarm symbol in the display.

### ALARM

In the event of an alarm, a malfunction has occurred that F130 cannot rectify itself. The display shows what type of alarm it is and lets you reset the alarm.

**reset alarm** In many cases it is sufficient to select "reset alarm" to correct the problem that caused the alarm. If the alarm recurs, the problem that caused the alarm remains. If the alarm initially disappears and then returns, you should contact your installer.

If the alarm does not reset, contact your installer for suitable remedial action.



### NOTE!

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

## 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 F130.
- Group and main fuses of the accommodation.

- The property's earth circuit breaker.

### LOW HOT WATER TEMPERATURE OR A LACK OF HOT WATER

- Large hot water consumption.
  - Wait until the hot water has heated up. Temporarily increased hot water capacity (temporary lux) can be activated in menu 2.1.
- Too low hot water setting.
  - Enter menu 2.2 - "comfort mode" and select a higher comfort mode.
- Filter clogged (installation with ambient air)
  - Clean or replace the filter.
- Low or a lack of ventilation (exhaust air installation)
  - See section "Low or a lack of ventilation".

### LOW OR NO VENTILATION (EXHAUST AIR INSTALLATION)

- 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 - "ventilation" and select "normal"

### HIGH OR DISTURBING VENTILATION (EXHAUST AIR INSTALLATION)

- Filter blocked.
  - Clean or replace the filter.
- The ventilation is not adjusted.
  - Order ventilation adjustment.
- Fan speed in forced mode.
  - Enter menu 1 - "ventilation" and select "normal"

### THE COMPRESSOR DOES NOT START

- There is no hot water requirement.
  - The heat pump does not call on hot water.
- 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.

- Check and adjust the condensation water hose.

# Technical data

Detailed technical specifications for this product can be found in the installation manual ([nibe.eu](http://nibe.eu)).

# Glossary

## **CIRCULATION PUMP**

Pump that circulates liquid in a pipe system.

## **COMPRESSOR**

Compresses the gas state refrigerant. When the refrigerant is compressed, the pressure and the temperature increase.

## **CONDENSER**

Heat exchanger where the hot gas state refrigerant condenses (cools and becomes a liquid) and heats the hot water.

## **DISTURBANCES IN COMFORT**

Disturbances in comfort means unwanted changes in hot water comfort, e.g. that the temperature of the hot water is too low.

A malfunction in the heat pump can sometimes be noticed in the form of a disturbance in comfort.

In most cases, the heat pump notes operational interference and indicates this with alarms and shows instructions in the display.

## **EVAPORATOR**

Heat exchanger where the refrigerant evaporates by retrieving heat energy from the air which then cools.

## **EXPANSION VALVE**

Valve that reduces the pressure of the refrigerant, whereupon the temperature of the refrigerant drops.

## **HEAT EXCHANGER**

Device that transfers heat energy from one medium to another without mixing mediums. Examples of different heat exchangers include evaporators and condensers.

## **MIXING VALVE**

A valve that mixes the cold water with the hot water leaving the heater.

## **REFRIGERANT**

Substance that circulates around a closed circuit in the heat pump and that, through pressure changes, evaporates and condenses. During evaporation, the refrigerant absorbs heating energy and when condensing gives off heating energy.

## **SUPPLY TEMPERATURE**

The temperature of the heated water that the heat pump sends out to the heating system. The colder the outdoor temperature, the higher the supply line temperature becomes.

# Item register

## **A**

Adjust the heat pump, 16

## **C**

Contact with F130, 9

Menu system, 9

Room unit, 9

## **D**

Disturbances in comfort

Manage alarm, 17

Troubleshooting, 17

## **F**

F130 – An excellent choice, 6

F130 – at your service, 12

Adjust the heat pump, 16

Get information, 15

Set the hot water capacity, 13

Set the indoor climate, 12

## **G**

Get information, 15

Glossary, 20

## **H**

Heat pump function, 8

## **I**

Important information

F130 – An excellent choice, 6

Installation data, 4

Serial number, 5

Installation data, 4

## **M**

Maintenance of F130, 11

Regular checks, 11

Manage alarm, 17

Menu system, 9

## **R**

Regular checks, 11

Room unit, 9

## **S**

Serial number, 5

Set the hot water capacity, 13

Set the indoor climate, 12

## **T**

Technical data, 19

The heating installation – the heart of the house, 7

Troubleshooting, 17



## Contact information

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