

UHB EN 2036-1
631077

USER MANUAL

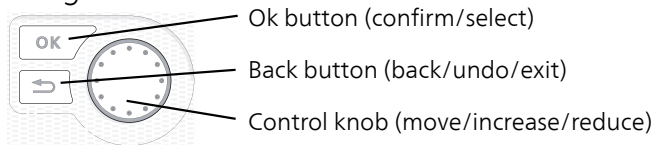
Exhaust air heat pump NIBE F370



 **NIBE**

Quick guide

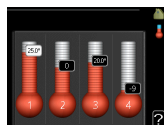
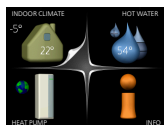
Navigation



A detailed explanation of the button functions can be found on page 11.

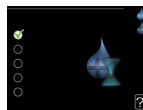
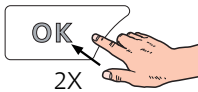
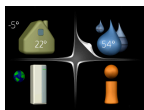
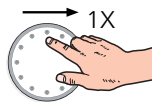
How to scroll through menus and make different settings is described on page 15.

Set the indoor climate



The mode for setting the indoor temperature is accessed by pressing the OK button twice, when in the start mode in the main menu. Read more about the settings on page 31.

Increase hot water volume



To temporarily increase the amount of hot water, first turn the control knob to mark menu 2 (water droplet) and then press the OK button twice. Read more about the settings on page 45.

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 67 for instructions.

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1 Important information

Installation data

Product				F370	
Serial number					
Installation date					
Installer					

No.	Name	Fact. sett.	Set	✓	Accessories
1.1	temperature (curve offset)	0			Extra shunt ECS 40/41
1.9.1	heating curve (curve slope)	9			Docking kit DEH 40/DEH 41
1.9.3	min. flow line temp.	20			Room unit RMU 40
5.1.5	fan sp. exhaust air (normal)	65%			Solar panels NIBE PV

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

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 F370 if there is a risk that the water in the system has frozen.

Water may drip from the safety valve. A factory-fitted overflow pipe runs from the safety valve to an overflow cup. The overflow pipe is visible, its mouth is open and not located close to electrical components. The safety valve must be actuated regularly to remove dirt and to check that it is not blocked.

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



NOTE

This symbol indicates danger to person or machine .



Caution

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

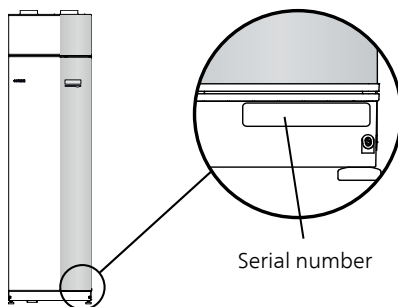


TIP

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

Serial number

The serial number can be found at the bottom right of the front cover, in the info menu (menu 3.1) and on the type plate.



Caution

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

F370 – An excellent choice

F370 is a heat pump, which has been developed to supply your home with inexpensive and environmentally friendly heating in the most efficient manner.

Heat production is reliable and economical, thanks to an integrated hot water heater, immersion heater, circulation pump and control system.

The heat pump can be connected to an optional low temperature heat distribution system. e.g. radiators, convectors or underfloor heating. It is also prepared for connection to several different products and accessories, e.g. extra water heater and climate systems with different temperatures.

F370 is equipped with a control computer for good comfort, good economy and safe operation. Clear information about status, operation time and all temperatures in the heat pump are shown on the large and easy to read display. This means, for example, that external unit thermometers are not necessary.

EXCELLENT PROPERTIES FOR F370:

- *Integrated water heater*

There is a water heater integrated in the heat pump, which is insulated with environmentally friendly cellular plastic for minimal heat loss.

- *Scheduling the indoor comfort and hot water*

Heating and hot water as well as ventilation, can be scheduled for each day of the week or for longer periods (vacation).

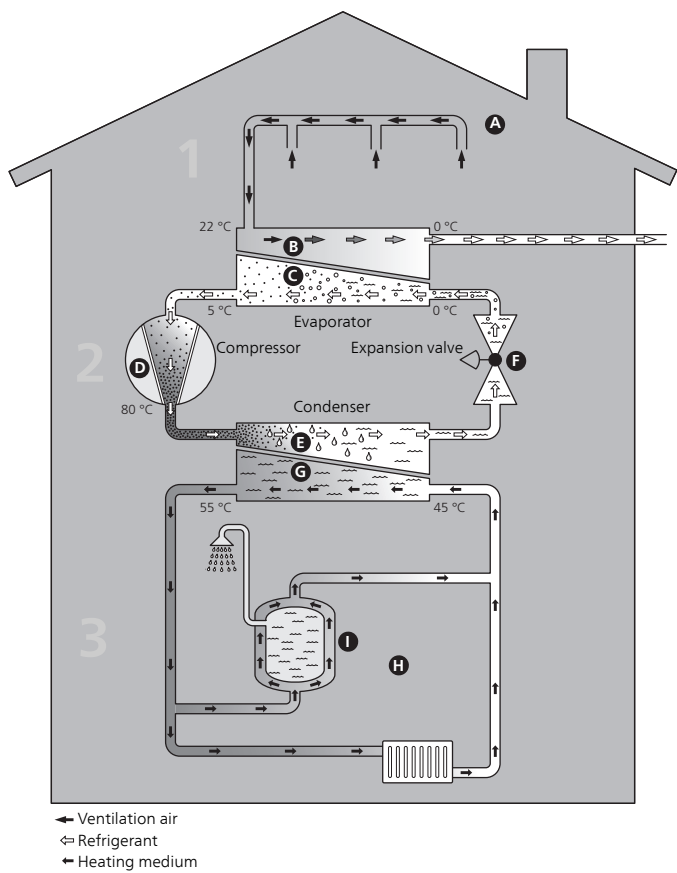
- *Display with user instructions*

The heat pump has a large display with easy-to-understand menus that facilitate setting a comfortable climate.

- *Simple troubleshooting*

In the event of a fault, the heat pump display shows what happened and the actions to be taken.

2 The heat pump – the heart of the house



Heat pump function

An exhaust air heat pump utilises the heat in the building's ventilation air to heat up the dwelling. The ventilation air's energy is converted to residential heating in three different circuits. From the outgoing ventilation air (1), heating energy is recovered from the dwelling and transported to the heat pump. The heat pump 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 house ventilation system.
- B** The fan then routes the air to the heat pump's evaporator. Here, the air releases the heating energy and the air's temperature drops significantly. The cold air is then blown out of 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 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.
- E** From the compressor, the gas is forced into a heat exchanger, condenser, where it releases heat energy to the heat pump's heating section, whereupon the gas is cooled and condenses to 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

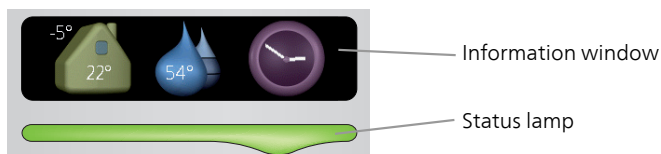
- G** The heat energy that the refrigerant produces in the condenser is retrieved by the climate system's water, heating medium, which is heated to 35 °C (supply temperature).
- H** The hot water circulates in a closed system and is pumped out to the radiators/heating coils of the house.
- I** The heat pump's integrated water heater is in the heating section. The heating medium heats the hot water.

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

Contact with F370

EXTERNAL INFORMATION

When the heat pump door is closed, information can be received via an information window and a status lamp.



Information window

The information window shows part of the display that is on the display unit (located behind the door to the heat pump). The information window can display different type of information, e.g. temperatures, clock, etc.

You determine what is to be displayed in the information window. Your own combination of information is entered using the display unit. This information is specific to the information window and disappears when the heat pump door is opened.

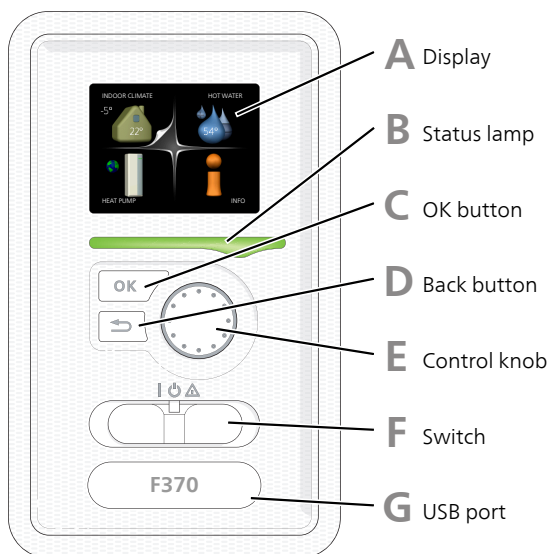
Instructions on how to set the information window can be found on page 61.

Status lamp

The status lamp indicates the status of the heat pump: continuous green light during normal function, continuous yellow light during activated emergency mode or continuous red light in the event of a deployed alarm.

Alarm management is described on page 67.

DISPLAY UNIT



There is a display unit behind the heat pump door, which is used to communicate with F370. Here you:

- switch on, switch off or set the heat pump in emergency mode.
- sets the indoor climate and hot water as well as adjusts the heat pump to your needs.
- receive information about settings, status and events.
- see different types of alarms and receive instructions about how they are to be rectified.

A *Display*

Instructions, settings and operational information are shown on the display. You can easily navigate between the different menus and options to set the comfort or obtain the information you require.

B *Status lamp*

The status lamp indicates the status of the heat pump. It:

- lights green during normal operation.
- lights yellow in emergency mode.
- lights red in the event of a deployed alarm.

C *OK button*

The OK button is used to:

- confirm selections of sub menus/options/set values/page in the start guide.

D *Back button*

The back button is used to:

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

E *Control knob*

The control knob can be turned to the right or left. You can:

- scroll in menus and between options.
- increase and decrease the values.
- change page in multiple page instructions (for example help text and service info).

F *Switch*

The switch assumes three positions:

- On (I)
- Standby (⏻)
- Emergency mode (⚠)

Emergency mode must only be used in the event of a fault on the heat pump. In this mode, the compressor switches off and the immersion heater engages. The heat pump display is not illuminated and the status lamp illuminates yellow.

The automatic heating control system is not operational, so manual shunt operation is required (see page 25).

G *USB port*

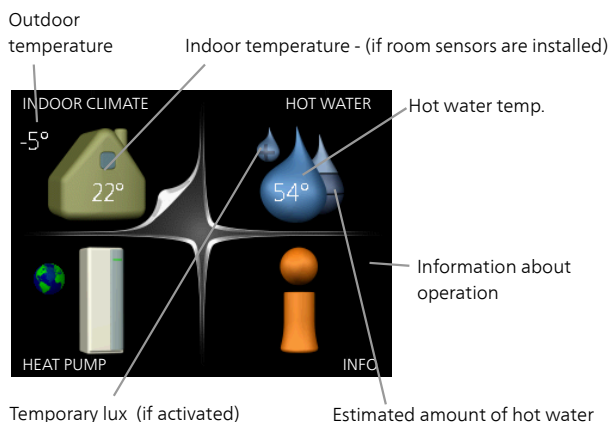
The USB port is hidden beneath the plastic badge with the product name on it.

The USB port is used to update the software.

Visit nibeuplink.com and click the "Software" tab to download the latest software for your installation.

MENU SYSTEM

When the door to the heat pump is opened, the menu system's four main menus are shown in the display as well as certain basic information.



Menu 1

INDOOR CLIMATE

Setting and scheduling the indoor climate. See page 31.

Menu 2

HOT WATER

Setting and scheduling hot water production. See page 45.

Menu 3

INFO

Display of temperature and other operating information and access to the alarm log. See page 50.










Menu 4

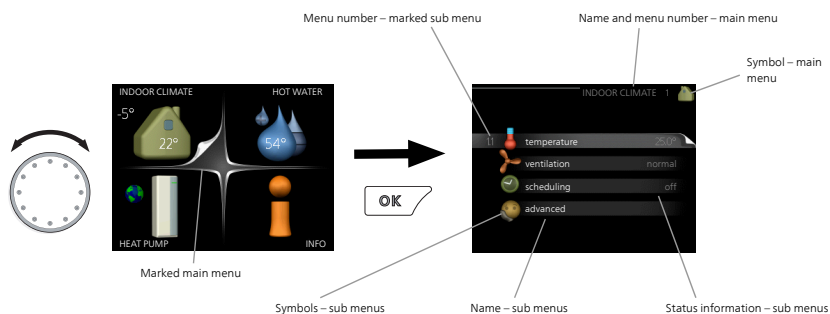
HEAT PUMP

Setting time, date, language, display, operating mode etc. See page 54.

Symbols in the display

The following symbols can appear in the display during operation.

Symbol	Description
	This symbol appears by the information sign if there is information in menu 3.1 that you should note.
	<p>These two symbols indicate whether the compressor or addition is blocked in F370.</p> <p>These can, for example, be blocked depending on which operating mode is selected in menu 4.2, if blocking is scheduled in menu 4.9.5 or if an alarm has occurred that blocks one of them.</p> <p> Blocking the compressor.</p> <p> Blocking additional heat.</p>
	This symbol appears if periodic increase or lux mode for the hot water is activated.
	This symbol indicates whether "holiday setting" is active in 4.7.
	This symbol indicates whether F370 has contact with NIBE Uplink.
	This symbol indicates the actual speed of the fan if the speed has changed from the normal setting.
	This symbol is visible in installations with active solar accessories.



Operation

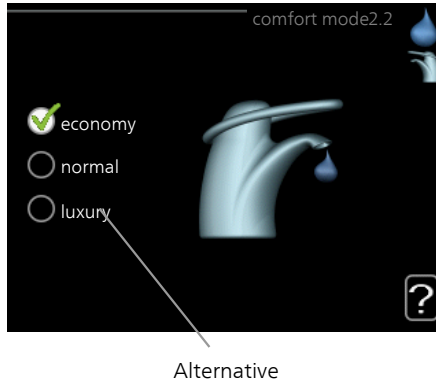
To move the cursor, turn the control knob to the left or the right. The marked position is white and/or has a turned up tab.




Selecting menu



To advance in the menu system select a main menu by marking it and then pressing the OK button. A new window then opens with sub menus. Select one of the sub menus by marking it and then pressing the OK button.

Selecting options



In an options menu the current selected option is indicated by a green tick. 

To select another option:

1. Mark the applicable option. One of the options is pre-selected (white). 
2. Press the OK button to confirm the selected option. The selected option has a green tick. 

Setting a value

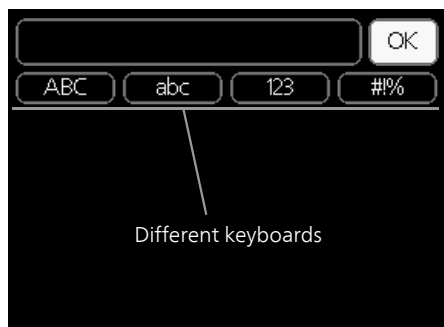


Values to be changed

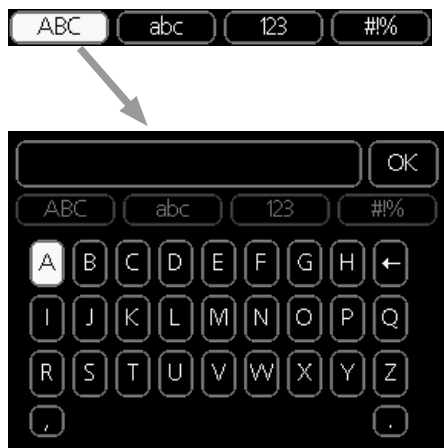
To set a value:

1. Mark the value you want to set using the control knob. 01
2. Press the OK button. The background of the value becomes green, which means that you have accessed the setting mode. 01
3. Turn the control knob to the right to increase the value and to the left to reduce the value. 04
4. Press the OK button to confirm the value you have set. To change and return to the original value, press the Back button. 04

Use the virtual keyboard



In some menus where text may require entering, a virtual keyboard is available.

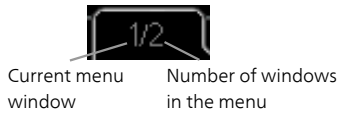


Depending on the menu, you can gain access to different character sets which you can select using the control knob. To change character table, press the Back button. If a menu only has one character set the keyboard is displayed directly.

When you have finished writing, mark "OK" and press the OK button.

Scroll through the windows

A menu can consist of several windows. Turn the control knob to scroll between the windows.




Scroll through the windows in the start guide



Arrows to scroll through window in start guide

1. Turn the control knob until one of the arrows in the top left corner (at the page number) has been marked.
2. Press the OK button to skip between the steps in the start guide.

Help menu

 In many menus there is a symbol that indicates that extra help is available.

To access the help text:

1. Use the control knob to select the help symbol.
2. Press the OK button.

The help text often consists of several windows that you can scroll between using the control knob.

Maintenance of F370

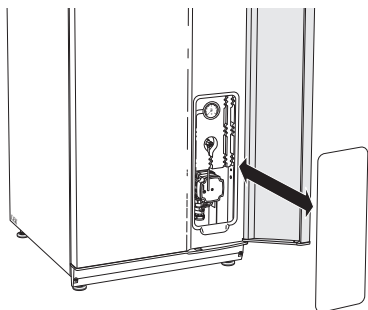
REGULAR CHECKS

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 67.

Service hatch

The vent valves etc. are behind the service hatch. Remove the hatch by pulling it towards you.



Cleaning the ventilation devices

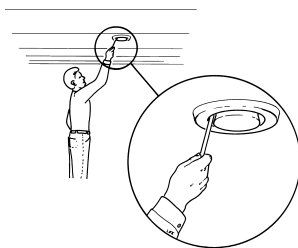
The building's ventilation devices should be cleaned regularly with, for example, a small brush to maintain the correct ventilation.

The device settings must not be changed.



NOTE

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



Cleaning the air filter

Clean the F370's air filter regularly, how often depends on the amount of dust in the ventilation air. Select what is most suitable for your installation.

You will receive a reminder about filter cleaning in the display. The default setting for the reminder is every three months, however, if the power to F370 is interrupted the countdown begins again.

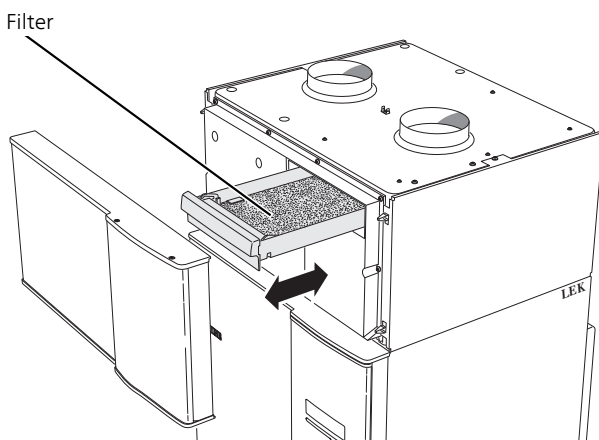
1. Switch off the heat pump.
2. Remove the upper front cover by pulling straight out.
3. Pull out the filter cassette.
4. Remove the filter and shake/vacuum it clean.
5. Check the condition of the filter and replace if needed.
6. Carry out assembly in reverse order.

Even if the filter looks clean, dirt collects in it and this affects the efficiency of the filter. For this reason, replace it after approx. 1 years. A new filter can be ordered via a representative of NIBE.



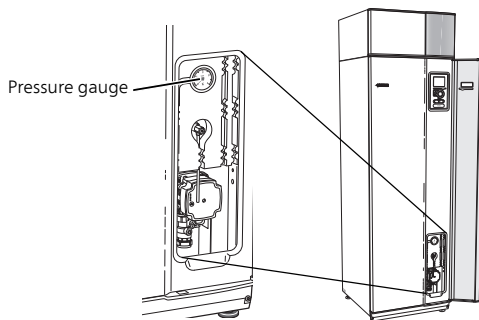
NOTE

Water or other liquids must not be used for cleaning.



Check pressure

F370 has a pressure gauge which shows the heating system pressure. The pressure should be between 0.5 and 1.5 bar, but varies during temperature changes. If the pressure drops to 0 or rises to 2.5 frequently, contact your installer for troubleshooting.



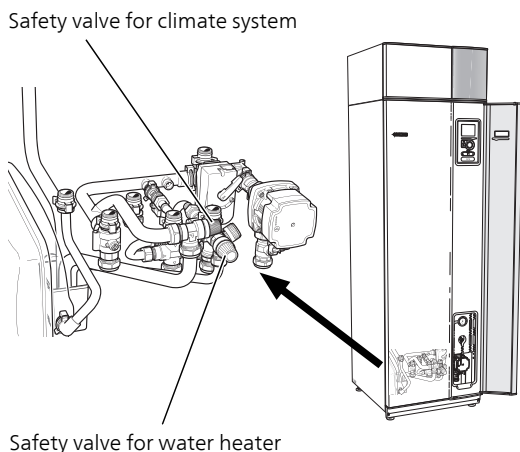
Safety valves

F370 has two safety valves, one for the hot water heater and one for the climate system.

The water heater's safety valve sometimes releases a little water after hot water usage. This is because the cold water, which enters the water heater, expands when heated causing the pressure to rise and the safety valve to open. The climate system's safety valve must be completely closed and must not normally release any water.

The function of the safety valves must be checked regularly. The valves are accessed via the service hatch. Perform checks as follows:

1. Open the valve by turning the knob anti-clockwise carefully.
2. Check that water flows through the valve.
3. Close the valve by releasing it. If it does not close automatically when released, turn it anti-clockwise slightly.
4. The climate system may need to be refilled after checking the safety valve, see the section "Filling the climate system".



Cleaning the overflow cup

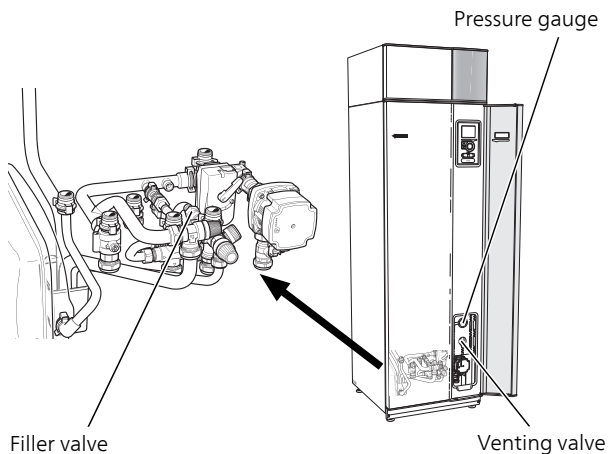
Condensation forms when the heat pump is working. This condensation is led off and collected in an overflow cup. In addition to water, a certain amount of dust and particles also collect in the overflow cup.

Regularly check that the overflow cup and any floor drains are not blocked; water must be able to run through freely. Clean, if necessary.

Filling the climate system

If the pressure is too low, increase as follows:

1. Open the filler valve. The heating section and the rest of the climate system are filled with water.
2. After a while the pressure rises on the pressure gauge. When it is approx. 1.0 bar close the filler valve.



Venting the climate system

In event of repeated filling of the climate system or if bubbling sounds are heard from the heat pump the system may need venting. This is carried out as follows:

1. Turn off the power supply to the heat pump.
2. Vent the heat pump via the vent valve and the rest of the climate system via its respective vent valves.
3. Keep topping up and venting until all air has been removed and the pressure is correct.



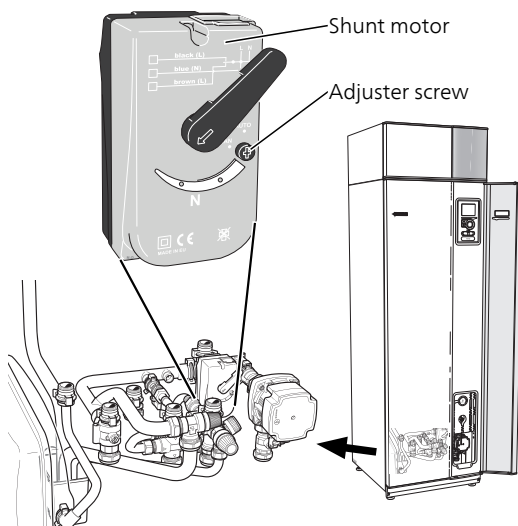
NOTE

The vent pipe from the container must be drained of water before air can be released. This means that the system is not necessarily bled despite the flow of water when the bleed valve is opened.

Therefore hold the vent valve open for at least 5 seconds.

Emergency mode

The automatic heating control system is not operational, so manual shunt operation is required. This is done by turning the adjustment screw on the shunt motor to "manual mode" and then turning the shunt knob to the desired position.



SAVING TIPS

Your heat pump installation produces heat and hot water. This occurs via the control settings you made.

Factors that affect the energy consumption are, for example, indoor temperature, hot water consumption, the insulation level of the house and whether the house has many large window surfaces. The position of the house, e.g. wind exposure is also an affecting factor.

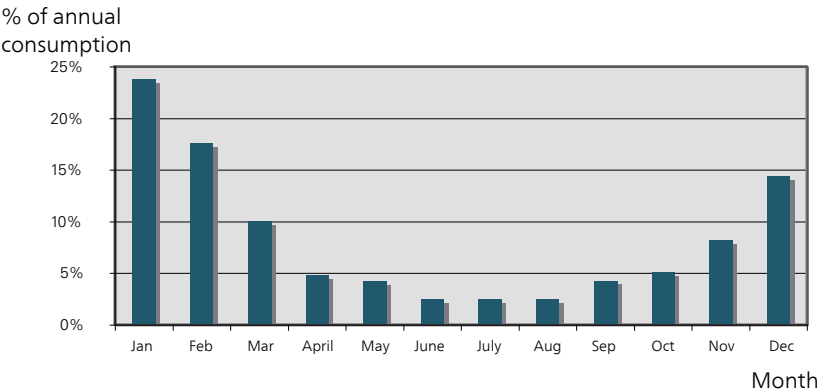
Even the house ventilation affects the energy consumption. It is therefore important to perform a ventilation adjustment shortly after installing the heat pump. At ventilation adjustment, a ventilation technician sets the house ventilation device and the fan in F370 according to the projected values of the house.

Also remember:

- Open the thermostat valves completely (except in rooms where you want it to be cooler). This is important, as fully or partially closed thermostat valves slow the flow in the climate system, which results in F370 working at a higher temperature. This in turn can lead to increased energy consumption.
- During the adjustment period (winter time), all thermostat valves should be fully open. The heat pump's heating settings are then adjusted so that the correct indoor temperature is obtained, in most rooms, regardless of the outdoor temperature. In rooms where a lower temperature is required, the thermostat valves are lowered to the desired level. After about a month, the remaining thermostats can be lowered slightly to avoid an increase of the room temperature due to solar radiation, stove heat, etc. Further reductions may be required later on.
- You can lower the temperature when away from the house by scheduling "holiday setting" in menu 4.7. See page 62 for instructions.
- You can reduce the ventilation speed when you are away by entering a schedule in menu 1.3.3. See page 35 for instructions.

Power consumption

Approximate energy consumption for F370 spread across the year



Increasing the indoor temperature one degree increases the energy consumption by approx. 5%.

Domestic electricity

In the past it has been calculated that an average Swedish household has an approximate annual consumption of 5000 kWh domestic electricity/year. In today's society it is usually between 6000-12000 kWh/year.

Equipment	Normal Output (W)		Appr. ann. con- sump (kWh)
	Opera- tion	Standby	
TV (Operation: 5 h/day, Standby: 19 h/day)	200	2	380
Digital box (Operation: 5 h/day, Standby: 19 h/day)	11	10	90
DVD (Operation: 2 h/week)	15	5	45
TV games console (Operation: 6 h/week)	160	2	67
Radio/stereo (Operation: 3 h/day)	40	1	50
Computer incl. screen (Operation: 3 h/day, standby 21 h/day)	100	2	120
Bulb (Operation 8 h/day)	60	-	175
Spot light, Halogen (Operation 8 h/day)	20	-	58
Cooling (Operation: 24 h/day)	100	-	165
Freezer (Operation: 24 h/day)	120	-	380
Stove, hob (Operation: 40 min/day)	1500	-	365
Stove, oven (Operation: 2 h/week)	3000	-	310
Dishwasher, cold water connection (Operation 1 time/day)	2000	-	730
Washing machine (Operation: 1 times/day)	2000	-	730
Tumble drier (Operation: 1 times/day)	2000	-	730
Vacuum cleaner (Operation: 2 h/week)	1000	-	100
Engine block heater (Operation: 1 h/day, 4 months a year)	400	-	50
Passenger compartment heater (Operation: 1 h/day, 4 months a year)	800	-	100

These values are approximate example values.

Example: A family with 2 children live in a house with 1 TVs, 1 digital boxes, 1 DVD players, 1 TV games console, 2 computers, 3 stereos, 2 bulbs in the WC, 2 bulbs in the bathroom, 4 bulbs in the kitchen, 3 bulbs outside, a washing machine, tumble drier, dishwasher, fridge, freezer, oven, vacuum cleaner, engine block heater = 6240 kWh domestic electricity/year

Energy meter

Check the accommodation's energy meter regularly, preferably once a month. This will indicate any changes in power consumption.

Newly built houses usually have twin energy meters, use the difference to calculate your domestic electricity.

New builds

Newly built houses undergo a drying out process for a year. The house can then consume significantly more energy than it would thereafter. After 1-2 years the heating curve should be adjusted again, as well as the offset heating curve and the building's thermostat valves, because the heating system, as a rule, requires a lower temperature once the drying process is complete.

3 F370 – at your service

Set the indoor climate

OVERVIEW

Sub-menus

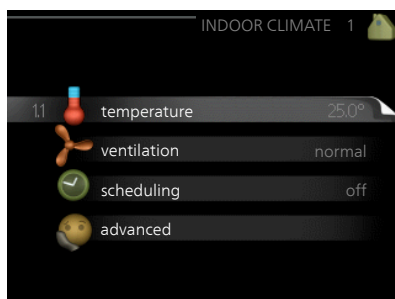
For the menu **INDOOR CLIMATE** there are several sub-menus. Status information for the relevant menu can be found on the display to the right of the menus.

temperature Setting the temperature for the climate system. The status information shows the set values for the climate system.

ventilation Setting the fan speed. The status information shows the selected setting.

scheduling Scheduling heating and ventilation. Status information "set" is displayed if you set a schedule but it is not active now, "holiday setting" is displayed if the vacation schedule is active at the same time as the schedule (the vacation function is prioritised), "active" displays if any part of the schedule is active, otherwise it displays "off".

advanced Setting of heat curve, adjusting with external contact, minimum value for supply temperature, room sensor and night cooling.



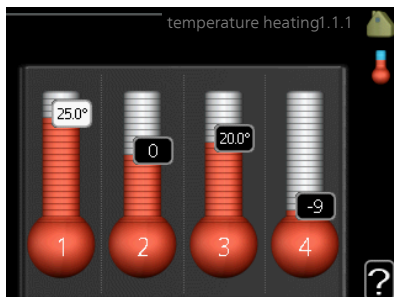
TEMPERATURE

Set the temperature (with room sensor installed and activated):

heating

Setting range: 5 – 30 °C

Default value: 20



The value in the display appears as a temperature in °C if the climate system is controlled by a room sensor.



Caution

A slow heat-releasing heating system, such as for example, underfloor heating, may not be suitable for control using the heat pump's room sensor.

To change the room temperature, use the control knob to set the desired temperature in the display. Confirm the new setting by pressing the OK button. The new temperature is shown on the right-hand side of the symbol in the display.

Setting the temperature (without room sensors activated):

Setting range: -10 to +10

Default value: -1

The display shows the set values for heating (curve offset). To raise or lower the indoor temperature, increase or reduce the value on the display.

Use the control knob to set a new value. Confirm the new setting by pressing the OK button.

The number of steps the value has to be changed to achieve a degree change of the indoor temperature depends on the heating installation. One step is usually enough but in some cases several steps may be required.

Setting the desired value. The new value is shown on the right-hand side of the symbol in the display.



Caution

An increase in the room temperature can be slowed by the thermostats for the radiators or under floor heating. Therefore, open the thermostats fully, except in those rooms where a cooler temperature is required, e.g. bedrooms.

If the exhaust air temperature falls below 16 °C the compressor is blocked and electric additional heat is permitted. Heat is not recovered from the exhaust air when the compressor is blocked.



TIP

Wait 24 hours before making a new setting, so that the room temperature has time to stabilise.

If it is cold outdoors and the room temperature is too low, increase the curve slope in menu 1.9.1.1 by one increment.

If it is cold outdoors and the room temperature is too high, reduce the curve slope in menu 1.9.1.1 by one increment.

If it is warm outdoors and the room temperature is too low, increase the value in menu 1.1.1 by one increment.

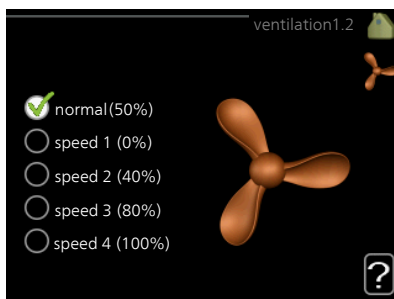
If it is warm outdoors and the room temperature is too high, reduce the value in menu 1.1.1 by one increment.

Menu 1.2

VENTILATION

Setting range: normal and speed 1-4

Default value: normal



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

When you have selected a new speed a clock starts a count down. When the time has counted down the ventilation speed returns to the normal setting.

If necessary, the different return times can be changed in menu 1.9.6.

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



TIP

If longer time changes are required use the holiday function or scheduling.



Caution

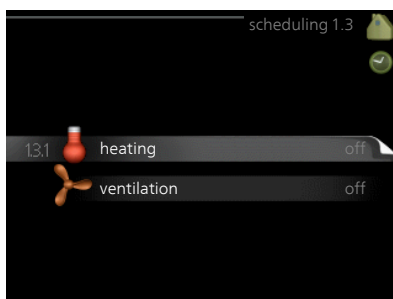
The heat pump requires a minimum ventilation flow in order to work properly. An insufficient ventilation flow can result in an alarm and blocking of compressor operation.

Menu 1.3

SCHEDULING

In the menu **scheduling** indoor climate (heating/ventilation) is scheduled for each weekday.

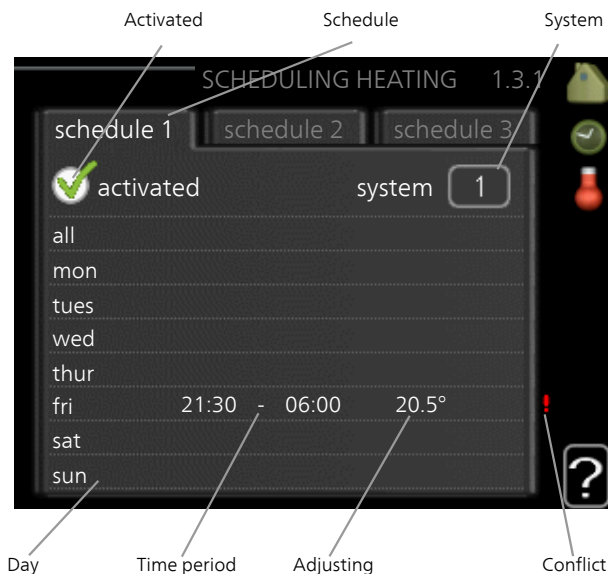
You can also schedule a longer time during a selected period (holiday) in menu 4.7.



Menu 1.3.1

HEATING

Increases or decreases in the accommodation temperature can be scheduled here for up to three time periods per day. If a room sensor is installed and activated the desired room temperature (°C) is set during the time period. Without an activated room sensor the desired change is set (of setting in menu 1.1). One step is usually enough to change the room temperature by one degree, but in some cases several steps may be required.



Schedule: The schedule to be changed is selected here.

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

System: The climate system that the relevant schedule relates to is selected here. This alternative is only displayed if there is more than one climate system.

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.

Adjustment: How much the heating curve is to be offset in relation to menu 1.1 during scheduling is set here. If a room sensor is installed, the desired room temperature is set in °C.

Conflict: If two settings conflict with each other, a red exclamation mark is displayed.



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.



TIP

Set the stop time earlier than the start time so that the period extends beyond midnight. Scheduling then stops at the set stop time the day after.

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



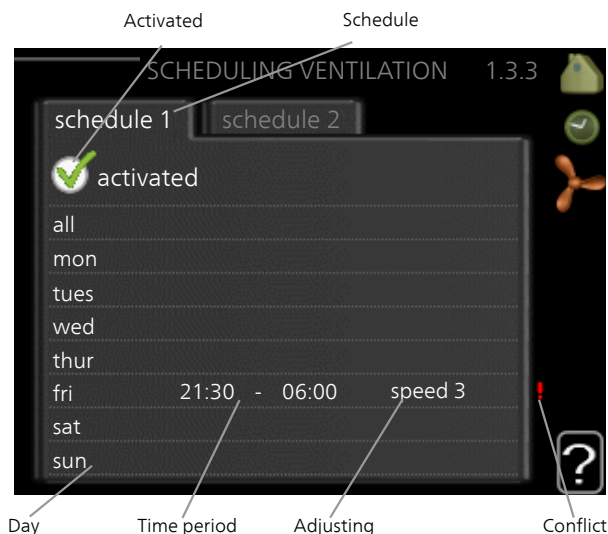
Caution

Changes of temperature in accommodation take time. For example, short time periods in combination with underfloor heating will not give a noticeable difference in room temperature.

If the exhaust air temperature falls below 16 °C the compressor is blocked and electric additional heat is permitted. When the compressor is blocked heat is not recovered from the exhaust air.

VENTILATION

Increases or decreases in the ventilation to the accommodation can be scheduled here for up to two time periods per day.



Schedule: The schedule to be changed is selected here.

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.

Adjustment: The desired fan speed is set here.

Conflict: If two settings conflict with each other, a red exclamation mark is displayed.



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.



TIP

Set the stop time earlier than the start time so that the period extends beyond midnight. Scheduling then stops at the set stop time the day after.

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



Caution

A significant change over a longer period of time may cause poor indoor environment and worse operating economy.

Menu 1.9

ADVANCED

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

heating curve Setting the heating curve slope.

external adjustment Setting the heat curve offset when the external contact is connected.

min. flow line temp. Setting minimum permitted flow line temperature.

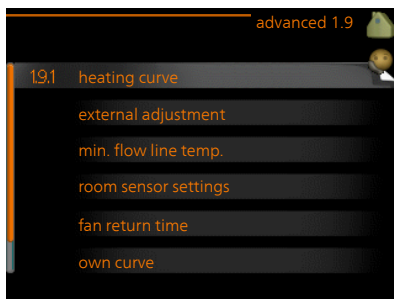
room sensor settings Settings regarding the room sensor.

fan return time Fan return time settings in the event of temporary ventilation speed change.

own curve Setting own heat curve.

point offset Setting the offset of the heating curve at a specific outdoor temperature.

night cooling Setting night cooling.



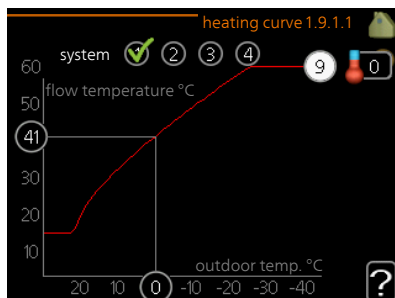
Menu 1.9.1

HEATING CURVE

heating curve

Setting range: 0 - 15

Default value: 5



The prescribed heating curve for your house can be viewed in the menu **heating curve**. The task of the heating curve is to give an even indoor temperature, regardless of the outdoor temperature, and thereby energy efficient operation. It is from this heating curve that the heat pump's control computer determines the temperature of the water to the heating system, supply temperature, and therefore the indoor temperature. Select the heating curve and read off how the supply temperature changes at different outdoor temperatures here.



Caution

With underfloor heating systems, **max flow line temperature** should normally be set to between 35 and 45 °C.

Check the max temperature for your floor with your installer/floor supplier.



TIP

Wait 24 hours before making a new setting, so that the room temperature has time to stabilise.

If it is cold outdoors and the room temperature is too low, increase the curve slope by one increment.

If it is cold outdoors and the room temperature is too high, lower the curve slope by one increment.

If it is warm outdoors and the room temperature is too low, increase the curve offset by one increment.

If it is warm outdoors and the room temperature is too high, lower the curve offset by one increment.

EXTERNAL ADJUSTMENT

Set the temperature (with room sensor installed and activated):

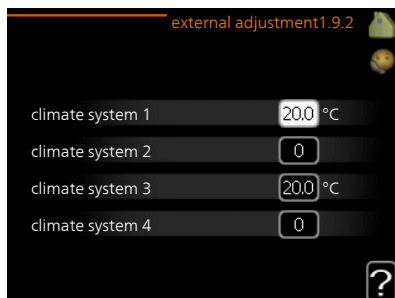
Setting range: 5 – 30 °C

Default value: 20

Setting the temperature (without room sensors activated):

Setting range: -10 to +10.

Default value: 0



Connecting an external contact, for example, a room thermostat or a timer allows you to temporarily or periodically raise or lower the room temperature while heating. When the contact is on, the heating curve offset is changed by the number of steps selected in the menu. If a room sensor is installed and activated the desired room temperature (°C) is set.

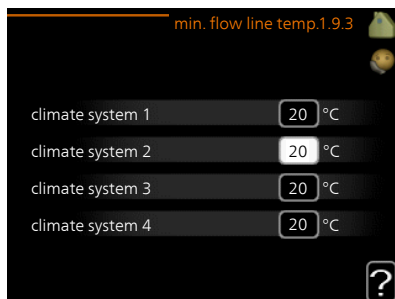
If there is more than one climate system the setting can be made separately for each system.

MIN. FLOW LINE TEMP.

heating

Setting range: 20-70 °C

Default value: 20 °C



Set the minimum temperature on the supply temperature to the climate system. This means that F370 never calculates a temperature lower than that set here.

If there is more than one climate system the setting can be made separately for each system.



TIP

The value can be increased if you have, for example, a cellar that you always want to heat, even in summer.

You may also need to increase the value in "stop heating" menu 4.9.2 "auto mode setting".

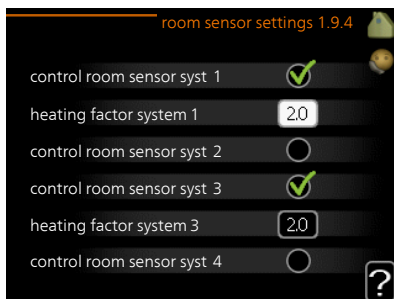
Menu
1.9.4

ROOM SENSOR SETTINGS

factor system

Setting range: 0.0 - 6.0

Default value: 2.0



Room sensors to control the room temperature can be activated here.



Caution

A slow heating system such as underfloor heating may not be suitable for control using the installation's room sensors.

Here you can set a factor (a numerical value) that determines how much an over or sub normal temperature (the difference between the desired and actual room temperature) in the room is to affect the supply temperature to the climate system. A higher value gives a greater and faster change of the heating curve's set offset.



NOTE

Too high a set value for "factor system" can (depending on your climate system) produce an unstable room temperature.

If several climate systems are installed the above settings can be made for the relevant systems.

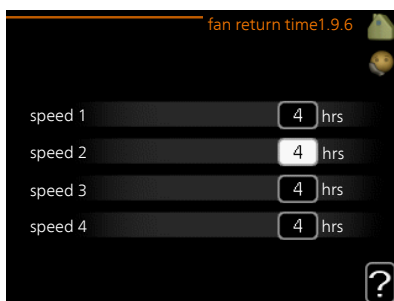
Menu
1.9.6

FAN RETURN TIME

speed 1-4

Setting range: 1 – 99 h

Default value: 4 h



Here you select the return time for temporary speed change (speed 1-4) on the ventilation in menu 1.2.

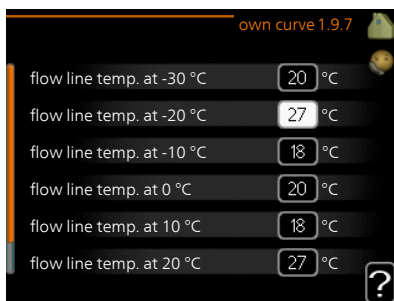
Return time is the time it takes before ventilation speed returns to normal.

Menu
1.9.7

OWN CURVE

supply temperature

Setting range: 0 – 80 °C



You can create your own heating curve here, if there are special requirements, by setting the desired supply temperatures for different outdoor temperatures.



Caution

Curve 0 in menu 1.9.1 must be selected for own curve to apply.

Menu
1.9.8

POINT OFFSET

outdoor temp. point

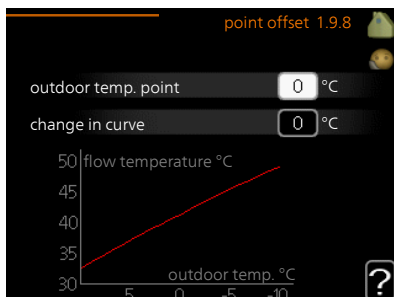
Setting range: -40 – 30 °C

Default value: 0 °C

change in curve

Setting range: -10 – 10 °C

Default value: 0 °C



Select a change in the heating curve at a certain outdoor temperature here. One step is usually enough to change the room temperature by one degree, but in some cases several steps may be required.

The heat curve is affected at $\pm 5^\circ\text{C}$ from set outdoor temp. point.

It is important that the correct heating curve is selected so that the room temperature is experienced as even.



TIP

If it is cold in the house, at, for example -2°C , "outdoor temp. point" is set to -2°C and "change in curve" is increased until the desired room temperature is maintained.



Caution

Wait 24 hours before making a new setting, so that the room temperature has time to stabilise.

Menu
1.9.9

NIGHT COOLING

start temp. exhaust air

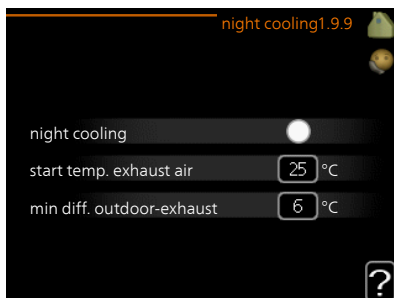
Setting range: 20 – 30 °C

Default value: 25 °C

min diff. outdoor-exhaust

Setting range: 3 – 10 °C

Default value: 6 °C



Activate night cooling here.

When the temperature in the house is high and the outdoor temperature is lower, a cooling effect can be obtained by forcing the ventilation.

If the temperature difference between the exhaust air and the outdoor air temperature is greater than the set value ("min diff. outdoor-exhaust") and the exhaust air temperature is higher than the set value ("start temp. exhaust air") run the ventilation at speed 4 until one of the conditions is no longer met.



Caution

Night cooling can only be activated when house heating has been deactivated. This is done in menu 4.2.

Set the hot water capacity

OVERVIEW

Sub-menus

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. The status information "set" appears if you have set scheduling but it is not currently active, "holiday setting" appears if holiday setting is active at the same time as scheduling (when the holiday function is prioritised), "active" appears if any part of scheduling is active, otherwise "off" appears.

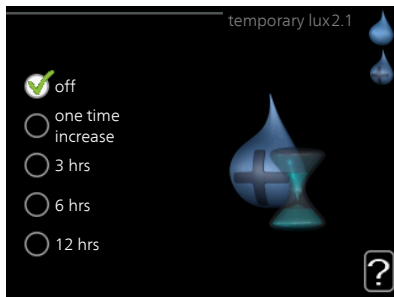
advanced Setting periodic increase in the hot water temperature.



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.



Caution

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.

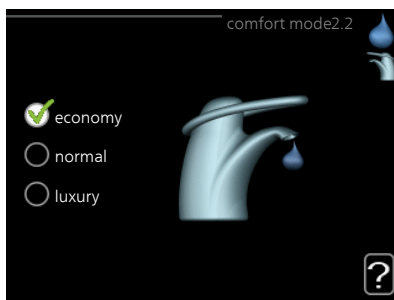
When the time has run out F370 returns to the mode set in menu 2.2.

Select "off" to switch off temporary lux.

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. This mode can be used in smaller households with a small hot water requirement.

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. In this mode, the immersion heater is used to heat hot water as well as the compressor, which increases operating costs.

Menu 2.3

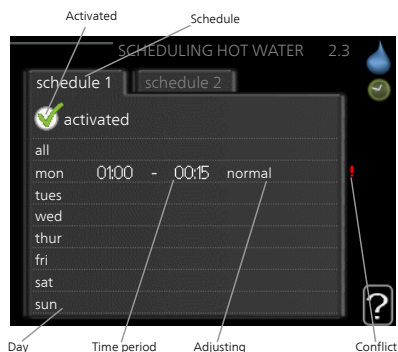
SCHEDULING

What hot water comfort the heat pump is to work with can be scheduled here for up to two different time periods per day.

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

Schedule: The schedule to be changed is selected here.

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.

Adjustment: Set the hot water comfort that is to apply during scheduling here.

Conflict: If two settings conflict with each other, a red exclamation mark is displayed.



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.



TIP

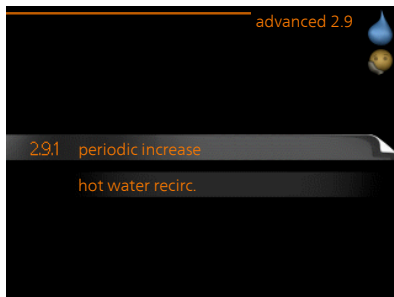
Set the stop time earlier than the start time so that the period extends beyond midnight. Scheduling then stops at the set stop time the day after.

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

Menu 2.9

ADVANCED

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



Menu 2.9.1

PERIODIC INCREASE

period

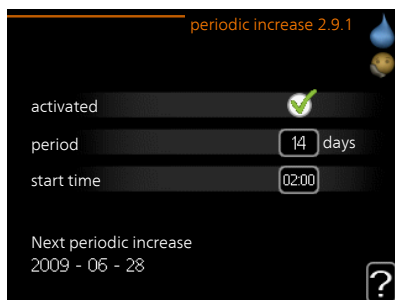
Setting range: 1 - 90 days

Default value: 14 days

start time

Setting range: 00:00 - 23:00

Default value: 00:00



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

The length of time between increases can be selected here. The time can be set between 1 and 90 days. Factory setting is 14 days. Tick/untick "activated" to start/switch off the function.

Menu 2.9.2

HOT WATER RECIRC.

operating time

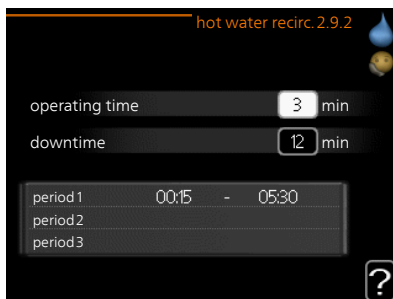
Setting range: 1 - 60 min

Default value: 60 min

downtime

Setting range: 0 - 60 min

Default value: 0 min



The screenshot shows a control interface for 'hot water recirc. 2.9.2'. It features two sliders: 'operating time' set to 3 min and 'downtime' set to 12 min. Below these is a table for scheduling periods:

period	start	end
period 1	00:15	05:30
period 2		
period 3		

A help icon (?) is located in the bottom right corner of the interface.

Set the hot water circulation for up to three periods per day here. During the set periods the hot water circulation pump will run according to the settings above.

"operating time" decide how long the hot water circulation pump must run per operating instance.

"downtime" decide how long the hot water circulation pump must be stationary between operating instances.

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. Status information for the relevant menu can be found on the display to the right of the menu.

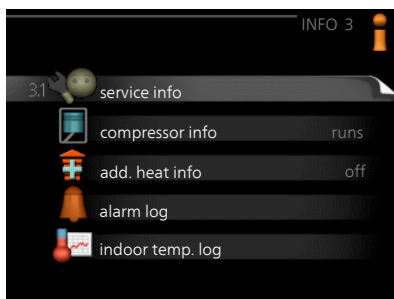
service info shows temperature levels and settings in the installation.

compressor info shows operating times, number of starts etc for the compressor in the heat pump.

add. heat info displays information about the additional heat's operating times etc.

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

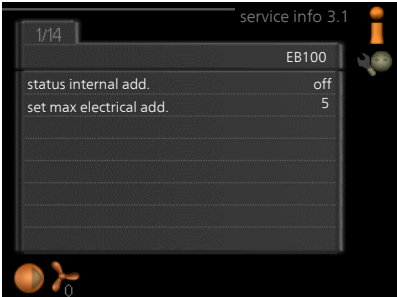
indoor temp. log the average temperature indoors week by week during the past year.









SERVICE INFO

Information about the heat pump’s actual operating status (e.g. current temperatures etc.) can be obtained here. No changes can be made.

The information is on several pages. Turn the control knob to scroll between the pages.

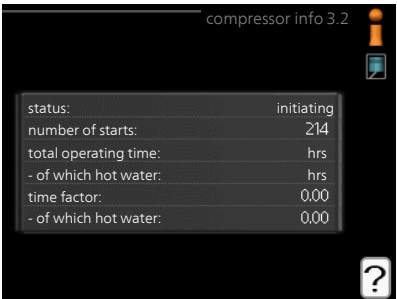


Symbols in this menu:			
	Compressor		Heating
	Addition		Hot water
	Circulation pump, climate system		Ventilation

COMPRESSOR INFO

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

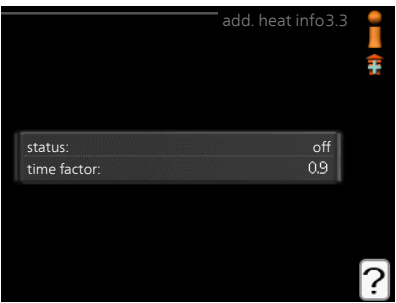
The information is on several pages. Turn the control knob to scroll between the pages.



ADD. HEAT INFO

Information about the additional heat's settings, operating status and statistics can be obtained here. No changes can be made.

The information is on several pages. Turn the control knob to scroll between the pages.

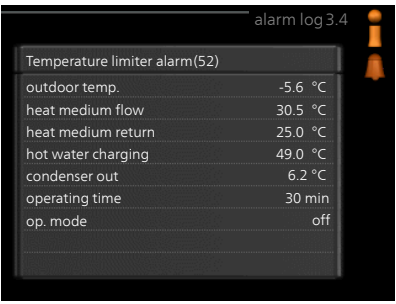
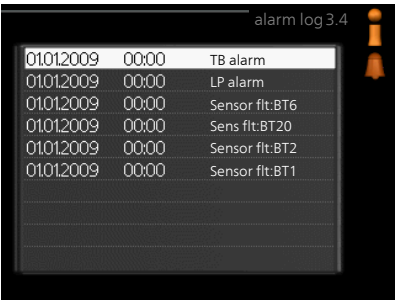


Menu
3.4

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.

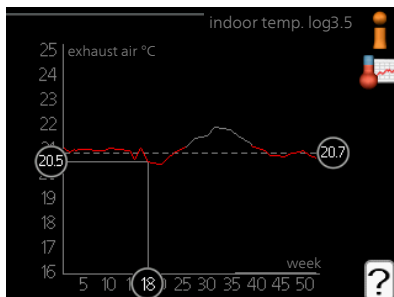
Menu
3.5

INDOOR TEMP. LOG

Here you can see the average temperature indoors week by week during the past year. The dotted line indicates the annual average temperature.

To read off an average temperature

1. Turn the control knob so that the ring on the shaft with the week number is marked.
2. Press the OK button.
3. Follow the grey line up to the graph and out to the left to read off the average indoor temperature at the selected week.
4. You can now select to take read outs for different weeks by turning the control knob to the right or left and read off the average temperature.
5. Press the OK or Back button to exit read off mode.



Adjust the heat pump

OVERVIEW

Sub-menus

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

plus functions Settings applying to any installed extra functions in the heating system.

op. mode Activation of manual or automatic operating mode. The status information shows the selected operating mode.

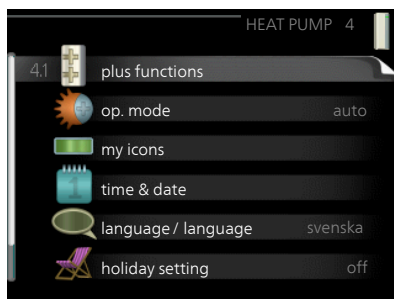
my icons Settings regarding which icons in the heat pump's user interface that are to appear in the slot when the door is closed.

time & date Setting current time and date.

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

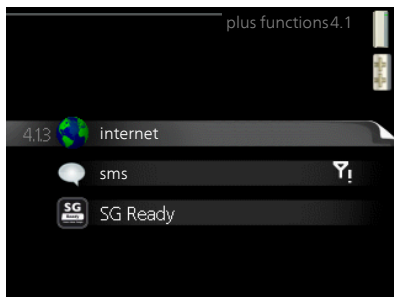
holiday setting Vacation scheduling heating, hot water and ventilation. Status information "set" is displayed if you set a vacation schedule but it is not active at the moment, "active" is displayed if any part of the vacation schedule is active, otherwise it displays " off".

advanced Setting heat pump work mode.



PLUS FUNCTIONS

Settings for any additional functions installed in F370 can be made in the sub menus.



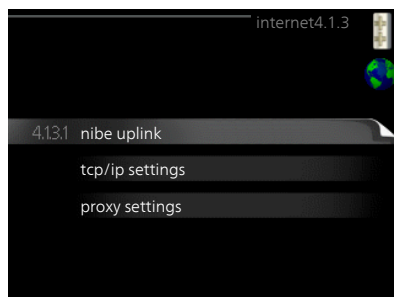
INTERNET

Here you make the settings for connecting F370 via NIBE Uplink, which uses the Internet.



NOTE

For these functions to work the network cable must be connected.



NIBE UPLINK

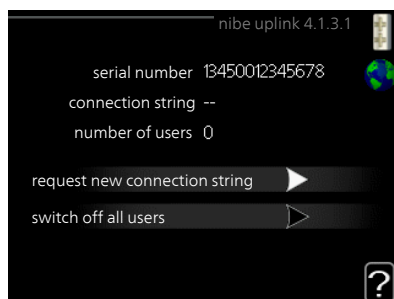
Here you can manage the installation's connection to NIBE Uplink (nibeuplink.com) and see the number of users connected to the installation via the internet.

A connected user has a user account in NIBE Uplink, which has been given permission to control and/or monitor your installation.

Request new connection string

To connect a user account on NIBE Uplink to your installation, you must request a unique connection code.

1. Mark "request new connection string" and press the OK button.
2. The installation now communicates with NIBE Uplink to create a connection



code.

3. When a connection string has been received, it is shown in this menu at "connection string" and is valid for 60 minutes.

Disconnect all users

1. Mark "switch off all users" and press the OK button.
2. The installation now communicates with NIBE Uplink to release your installation from all users connected via the internet.



NOTE

After disconnecting all users none of them can monitor or control your installation via NIBE Uplink without requesting a new connection string.

Menu 4.1.3.8

TCP/IP SETTINGS

You can set TCP/IP settings for your installation here.

Automatic setting (DHCP)

1. Tick "automatic". The installation now receives the TCP/IP settings using DHCP.
2. Mark "confirm" and press the OK button.



Manual setting

1. Untick "automatic", you now have access to several setting options.
2. Mark "ip-address" and press the OK button.
3. Enter the correct details via the virtual keypad.
4. Select "OK" and press the OK button.
5. Repeat 1 - 3 for "net mask", "gateway" and "dns".
6. Mark "confirm" and press the OK button.



Caution

The installation cannot connect to the internet without the correct TCP/IP settings. If unsure about applicable settings use the automatic mode or contact your network administrator (or similar) for further information.



TIP

All settings made since opening the menu can be reset by marking "reset" and pressing the OK button.

Menu 4.1.3.9

PROXY SETTINGS

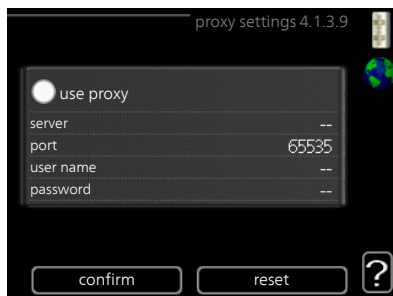
You can set proxy settings for your installation here.

Proxy settings are used to give connection information to a intermediate server (proxy server) between the installation and Internet. These settings are primarily used when the installation connects to the Internet via a company network. The installation supports proxy authentication of the HTTP Basic and HTTP Digest type.

If unsure about applicable settings, contact your network administrator (or similar) for further information.

Setting

1. Tick "use proxy" if you do not want to use a proxy.
2. Mark "server" and press the OK button.
3. Enter the correct details via the virtual keypad.
4. Select "OK" and press the OK button.
5. Repeat 1 - 3 for "port", "user name" and "password".
6. Mark "confirm" and press the OK button.



TIP

All settings made since opening the menu can be reset by marking "reset" and pressing the OK button.

SMS (ACCESSORY IS REQUIRED)

Make settings for the accessory SMS 40 here.

Add the mobile numbers that are to have access to change and receive status information from the heat pump. Mobile numbers must include country code e.g. +46 XXXXXXXX.

If you want to receive an SMS message in the event of the alarm mark the box to the right of the telephone number.



NOTE

Telephone numbers provided must be able to receive SMS messages.

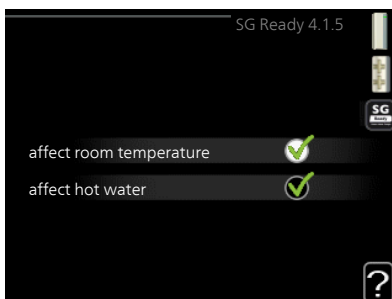
SG READY

This function can only be used in mains networks that support the "SG Ready"-standard .

Make settings for the function "SG Ready" here.

affect room temperature

Here you set whether room temperature should be affected when activating "SG Ready".



With low price mode on "SG Ready" the parallel offset for the indoor temperature is increased by "+1". If a room sensor is installed and activated, the desired room temperature is instead increased by 1 °C.

With over capacity mode on "SG Ready" the parallel offset for the indoor temperature is increased by "+2". If a room sensor is installed and activated, the desired room temperature is instead increased by 2 °C.

affect hot water

Here you set whether the temperature of the hot water should be affected when activating "SG Ready".

With low price mode on "SG Ready", the stop temperature for the hot water is set as high as possible with compressor operation only (immersion heater not permitted).

With over capacity mode of "SG Ready" the hot water is set to "luxury" (immersion heater permitted).



NOTE

The function must be connected and activated in your F370.

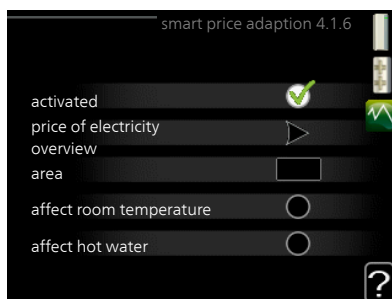
Menu
4.1.6

SMART PRICE ADAPTION™

affect room temperature

Setting range: 1 - 10

Factory setting: 5



affect hot water

Setting range: 1 - 4

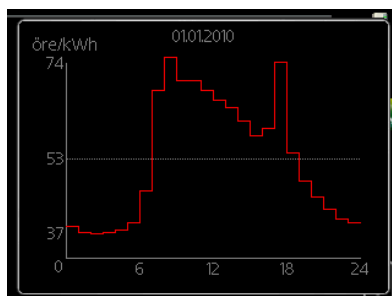
Factory setting: 2

area

In this menu you state where the heat pump is located and how great a role the electricity price should play. The greater the value, the greater the effect the electricity price has and the possible savings are larger, but at the same time there is an increased risk of affecting comfort.

price of electricity overview

Here you can obtain information on how the electricity price varies over up to three days.



Smart price adaption™ moves the heat pump's consumption over 24 hours to periods with the cheapest electricity tariff, which gives savings for hourly rate based electricity contracts. The function is based on hourly rates for the next 24 hours being retrieved via NIBE Uplink and therefore an internet connection and an account for NIBE Uplink are required.

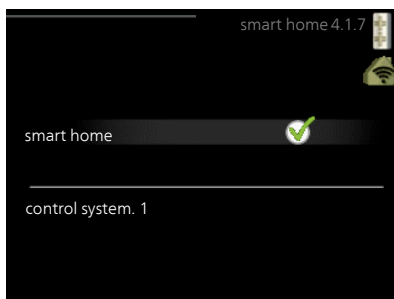
Deselect "activated" to switch off Smart price adaption™.

Menu 4.1.7

SMART HOME (ACCESSORY IS REQUIRED)

When you have a smart home system that can speak to NIBE Uplink, by activating the smart home function in this menu you can control the F370 via an app.

By allowing connected units to communicate with NIBE Uplink, your heating system becomes a natural part of your homesmart home and gives you the opportunity to optimise the operation.



Caution

The smart home function requires NIBE Uplink in order to work.

Menu 4.1.10

SOLAR ELECTRICITY (ACCESSORY IS REQUIRED)

affect room temperature

Setting range: on/off

Factory setting: off

affect hot water

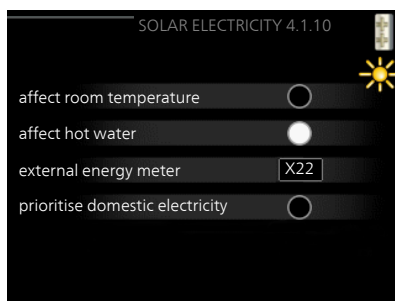
Setting range: on/off

Factory setting: off

prioritise domestic electricity (EME 20)

Setting range: on/off

Factory setting: off



This is where you set that part of your installation (room temperature, hot water temperature) that will benefit from the surplus solar electricity.

When the solar panels produce more electricity than F370 requires, the temperature in the property is adjusted and/or the temperature of the hot water is increased.

EME

In this menu you can also make settings that are specific for your EME.

For EME 20, you can select whether you want domestic electricity to be prioritised ahead of room temperature and hot water, provided that an external energy meter is connected to F370.

Menu 4.2

OP. MODE

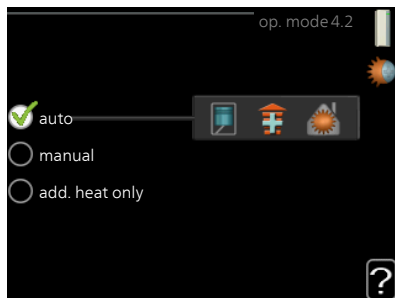
op. mode

Setting range: auto, manual, add. heat only

Default value: auto

functions

Setting range: compressor, addition, heating



The heat pump operating mode is usually set to "auto". It is also possible to set the heat pump to "add. heat only", but only when an addition is used, or "manual" and select yourself what functions are to be permitted.

Change the operating mode by marking the desired mode and pressing the OK button. When an operating mode is selected, it shows what is permitted in the heat pump (crossed out = not permitted) and selectable alternatives to the right. To select selectable functions that are permitted or not, mark the function using the control knob and press the OK button.

Operating mode auto

In this operating mode the heat pump automatically selects what functions are permitted.

Operating mode manual

In this operating mode you can select what functions are permitted. You cannot deselect "compressor" in manual mode.

Operating mode *add. heat only*

In this operating mode the compressor is not active, only additional heat is used.



Caution

If you choose mode "add. heat only" the compressor is deselected and there is a higher operating cost.

Functions

"compressor" is the unit that produces heating and hot water for the home. If "compressor" is deselected in auto mode, this is displayed with a symbol in the main menu. You cannot deselect "compressor" in manual mode.

"addition" is the unit that helps the compressor to heat the home and/or the hot water when it cannot manage the entire requirement alone.

"heating" means you obtain heating in the home. You can deselect the function when you do not wish to have the heating on.



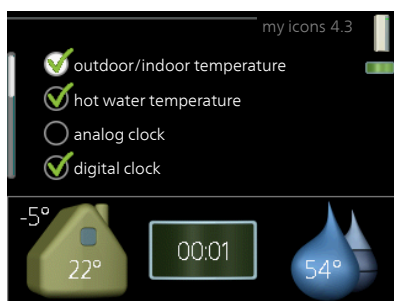
Caution

If you deselect "addition" it may mean that insufficient hot water and/or heating in the accommodation is achieved.

Menu 4.3

MY ICONS

You can select what icons should be visible when the door to F370 is closed. You can select up to 3 icons. If you select more, the ones you selected first will disappear. The icons are displayed in the order you selected them.



Menu
4.4

TIME & DATE

Set time and date, display mode and time zone here.



TIP

Time and date are set automatically if the heat pump is connected to NIBE Uplink. To obtain the correct time, the time zone must be set.



Menu
4.6

LANGUAGE

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



Menu
4.7

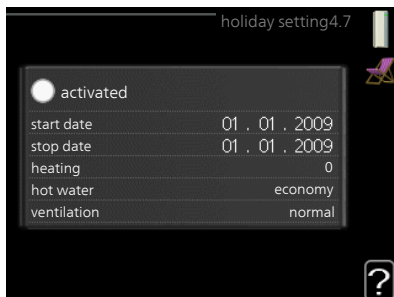
HOLIDAY SETTING

To reduce energy consumption during a holiday you can schedule a reduction in heating, ventilation and hot water temperature. Solar panel cooling can also be scheduled if the function is connected.

If a room sensor is installed and activated, the desired room temperature (°C) is set during the time period. This setting applies to all climate systems with room sensors.

If a room sensor is not activated, the desired offset of the heating curve is set. One step is usually enough to change the room temperature by one degree, but in some cases several steps may be required. This setting applies to all climate systems without room sensors.

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





TIP

Stop the holiday setting about a day before your return so that room temperature and hot water have time to return to their usual levels.



TIP

Set the vacation setting in advance and activate just before departure in order to maintain the comfort.



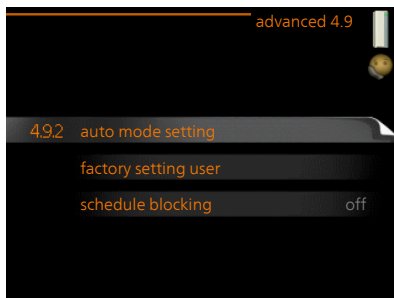
Caution

If the exhaust air temperature falls below 16 °C the compressor is blocked and electric additional heat is permitted. When the compressor is blocked heat is not recovered from the exhaust air.

Menu
4.9

ADVANCED

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



Menu
4.9.2

AUTO MODE SETTING

stop heating

Setting range: -20 – 40 °C

Default values: 20

stop additional heat

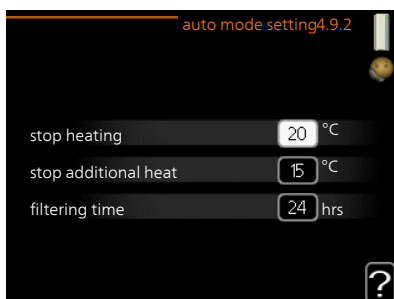
Setting range: -25 – 40 °C

Factory setting: 15

filtering time

Setting range: 0 – 48 h

Default value: 24 h



When the operating mode is set to "auto", the heat pump selects when start and stop of additional heat and heat production is permitted, dependent on the average outdoor temperature.

Select the average outdoor temperatures in this menu.



Caution

It cannot be set "stop additional heat" higher than "stop heating".

filtering time: You can also set the time (filtering time) over which the average temperature is calculated. If you select 0, the current outdoor temperature is used.

Menu
4.9.4

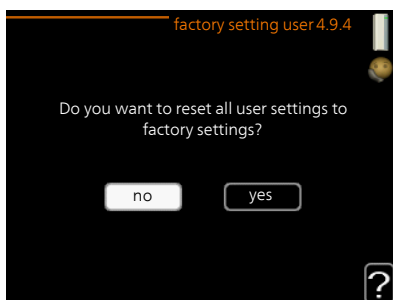
FACTORY SETTING USER

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



Caution

After factory setting, personal settings such as heating curves, ventilation etc must be reset.



Menu
4.9.5

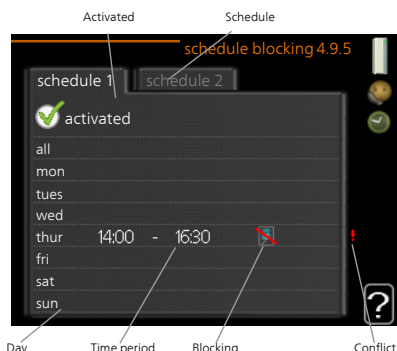
SCHEDULE BLOCKING

The compressor can be scheduled to be blocked for up to two different time periods here.

When scheduling is active the actual blocking symbol in the main menu on the heat pump symbol is displayed.

Schedule: The period to be changed is selected here.

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.

Blocking: The desired blocking is selected here.

Conflict: If two settings conflict with each other, a red exclamation mark is displayed.



Blocking the compressor.



Blocking additional heat.



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.



TIP

Set the stop time earlier than the start time so that the period extends beyond midnight. Scheduling then stops at the set stop time the day after.

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



Caution

Long term blocking can cause reduced comfort and operating economy.

4 Disturbances in comfort

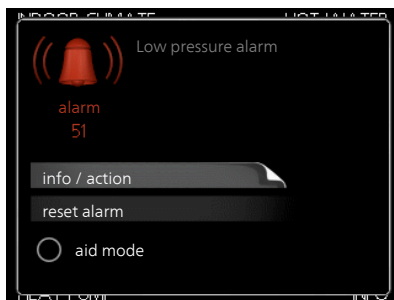
In most cases, the heat pump notes operational interference (operational interference can lead to disturbance in comfort) and indicates this with alarms and shows action instructions in the display.

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 fault source. See page 50 for more information about menu 3.1.

Manage alarm

In the event of an alarm, some kind of malfunction has occurred, which is indicated by the status lamp changing from green continuously to red continuously. In addition, an alarm bell appears in the information window.



ALARM

In the event of an alarm with a red status lamp a malfunction has occurred that the heat pump cannot remedy itself. In the display, by turning the control knob and pressing the OK button, you can see the type of alarm it is and reset it. You can also choose to set the heat pump to aid mode.

info / action Here you can read what the alarm means and receive tips on what you can do to correct the problem that caused the alarm.

reset alarm In many cases, it is sufficient to select “reset alarm” in order for the product to revert to normal operation. If a green light comes on after selecting “reset alarm”, the alarm has been remedied. If a red light

is still visible and a menu called “alarm” is visible in the display, the problem causing the alarm still remains. If the alarm initially disappears and then returns, you should contact your installer.

aid mode “aid mode” is a type of emergency mode. This means that the heat pump produces heat and/or hot water even though there is some kind of problem. This could mean that the heat pump’s compressor is not running. In this case, the immersion heater produces heat and/or hot water.



Caution

To select aid mode an alarm action must be selected in the menu 5.1.4.



Caution

Selecting “aid mode” is not the same as correcting the problem that caused the alarm. The status lamp will therefore continue to be red.

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



NOTE

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

See chapter “Important information”, page 6.

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:

- The switch's position.
- Group and main fuses of the accommodation.
- The property's earth circuit breaker.

- Heat pump's earth-fault breaker.
- Correctly set load monitor.

LOW HOT WATER TEMPERATURE OR A LACK OF HOT WATER

- Closed or choked filling valve for the hot water.
 - Open the valve.
- F370 in incorrect operating mode.
 - Enter menu 4.2. If mode "auto" is selected, select a higher value on "stop additional heat" in menu 4.9.2.
 - If mode "manual" is selected, select "addition".
- 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 and select a higher comfort mode.
- Filter blocked.
 - Clean or replace filter (see page 21).

LOW ROOM TEMPERATURE

- Closed thermostats in several rooms.
 - Set the thermostats to max, in as many rooms as possible. Adjust the room temperature via menu 1.1, instead of choking the thermostats.

See the "Saving tips" section for more detailed information about how to best set the thermostats.
- F370 in incorrect operating mode.
 - Enter menu 4.2. If mode "auto" is selected, select a higher value on "stop heating" in menu 4.9.2.
 - If mode "manual" is selected, select "heating". If this is not enough, select "addition".
- Too low set value on the automatic heating control.

- Enter menu 1.1 "temperature" and adjust the offset heating curve up. If the room temperature is only low in cold weather the curve slope in menu 1.9.1 "heating curve" needs adjusting up.
- "comfort mode" "luxury" selected in combination with large hot water outlet.
 - Enter menu 2.2 and select "economy" or "normal".
- "Holiday mode" activated in menu 4.7.
 - Enter menu 4.7 and select "Off".
- External switch for changing room temperature activated.
 - Check any external switches.
- Air in the climate system.
 - Vent the climate system.
- Closed valves to the climate system.
 - Open the valves (contact your installer for assistance in finding them).
- Filter blocked.
 - Clean or replace filter (see page 21).

HIGH ROOM TEMPERATURE

- Too high set value on the automatic heating control.
 - Enter menu 1.1 (temperature) and reduce the offset heating curve. If the room temperature is only high in cold weather the curve slope in menu 1.9.1 "heating curve" needs adjusting down.
- External switch for changing room temperature activated.
 - Check any external switches.

LOW SYSTEM PRESSURE

- Not enough water in the climate system.
 - Top up the water in the climate system.

LOW OR A LACK OF VENTILATION

- Filter blocked.
 - Clean or replace filter (see page 21).

- The ventilation is not adjusted.
 - Order ventilation adjustment.
- Exhaust air device blocked or throttled down too much.
 - Check and clean the exhaust air devices (see page 20).
- Fan speed in reduced mode.
 - Enter menu 1.2 and select "normal".
- External switch for changing the fan speed activated.
 - Check any external switches.

HIGH OR DISTRACTING VENTILATION

- Filter blocked.
 - Clean or replace filter (see page 21).
- The ventilation is not adjusted.
 - Order ventilation adjustment.
- Fan speed in forced mode.
 - Enter menu 1.2 and select "normal".
- External switch for changing the fan speed activated.
 - Check any external switches.

THE COMPRESSOR DOES NOT START

- There is no heating requirement.
 - F370 does not call on heating or hot water.
 - The heat pump defrosts.
- Compressor blocked due to the temperature conditions.
 - Wait until the temperature is within the product's working range.
- Minimum time between compressor starts has not been reached.
 - Wait for at least 30 minutes and then check if the compressor has started.
- Alarm tripped.
 - Follow the display instructions.

5 Technical data

Detailed technical specifications for this product can be found in the installation manual (nibe.eu).

6 Glossary

ADDITIONAL HEAT

The additional heat is the heat produced in addition to the heat supplied by the compressor in your heat pump. Additional heaters can be for example, immersion heater, electric heater, gas/oil/pellet/wood burner or district heating.

CALCULATED FLOW LINE TEMPERATURE

The temperature that the heat pump calculates that the heating system requires for an optimum accommodation temperature. The colder the outdoor temperature, the higher the calculated supply temperature.

CIRCULATION PUMP

Pump that circulates liquid in a pipe system.

CLIMATE SYSTEM

Climate systems can also be called heating systems. The building is heated using radiators, under floor coils or convector fans.

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 (cooled and becomes a liquid) and releases heat energy to the house heating and hot water systems.

DISTURBANCES IN COMFORT

Disturbances in comfort are undesirable changes to the hot water/indoor comfort, for example when the temperature of the hot water is too low or if the indoor temperature is not at the desired level.

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.

DOMESTIC HOT WATER

The water one showers in for example.

ELECTRICAL ADDITION

This is the electricity that, for example, an immersion heater produces when the compressor's output is not sufficient to fulfil the property's heating demand.

EMERGENCY MODE

A mode that can be selected using the switch in the event of a fault, which means that the compressor stops. When the heat pump is in emergency mode, the building and/or hot water is heated using an immersion heater.

EVAPORATOR

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

EXHAUST AIR

The air that comes from the exhaust air device in the various rooms of the accommodation, to F370.

EXHAUST AIR DEVICES

Vents, usually in the ceiling, in the kitchen/bathroom/clothes closet where the air is drawn in to be forwarded to F370.

EXPANSION VALVE

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

EXPANSION VESSEL

Vessel with heating medium fluid with the task of equalising the pressure in the heating medium system.

EXTRACT AIR

The air that the heat pump has retrieved heat from and which has therefore been cooled. This air is blown out of the building.

FILTERING TIME

Indicates the time the average outdoor temperature is calculated on.

FLOW PIPE

The line in which the heated water is transported from the heat pump out to the house heating system (radiators/heating coils).

HEAT EXCHANGER

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

HEAT FACTOR

Measurement of how much heat energy the heat pump gives off in relation to the electric energy it needs to operate. Another term for this is COP.

HEATING CURVE

The heating curve determines which heat the heat pump is to produce depending on the temperature outdoors. If a high value is selected, this tells the heat pump that it must produce a lot of heat when it is cold outdoors in order to achieve a warm indoor temperature.

HEATING MEDIUM

Hot liquid, usually normal water, which is sent from the heat pump to the house climate system and makes the accommodation warm. The heating medium also heats the hot water.

HEATING MEDIUM SIDE

Pipes to the house's climate system make up the heating medium side.

MIXING VALVE

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

OUTSIDE SENSOR

A sensor that is located outdoors. This sensor tells the heat pump how hot it is outdoors.

PRESSOSTAT

Pressure switch that triggers an alarm and/or stops the compressor if non-permitted pressures occur in the system. A high pressure pressostat trips if the condensing pressure is too great. A low pressure pressostat trips if the evaporation pressure is too low.

RADIATOR

Another word for heating element. They must be filled with water in order to be used with F370.

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.

RETURN PIPE

The line in which the water is transported back to the heat pump from the house heating system (radiators/heating coils).

RETURN TEMP

The temperature of the water that returns to the heat pump after releasing the heat energy to the radiators/heating coils.

ROOM SENSOR

A sensor that is located indoors. This sensor tells the heat pump how hot it is indoors.

SAFETY VALVE

A valve that opens and releases a small amount of liquid if the pressure is too high.

SHUNT

A valve that mixes the hot water with a small amount of slightly cooler water. There is a shunt in the heat pump that mixes the supply water with the return line water so that the heating system reaches the correct temperature.

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.

WATER HEATER

Container where domestic water is heated. Is located inside the heat pump, but an extra hot water heater can be installed in the event of large hot water requirements.

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