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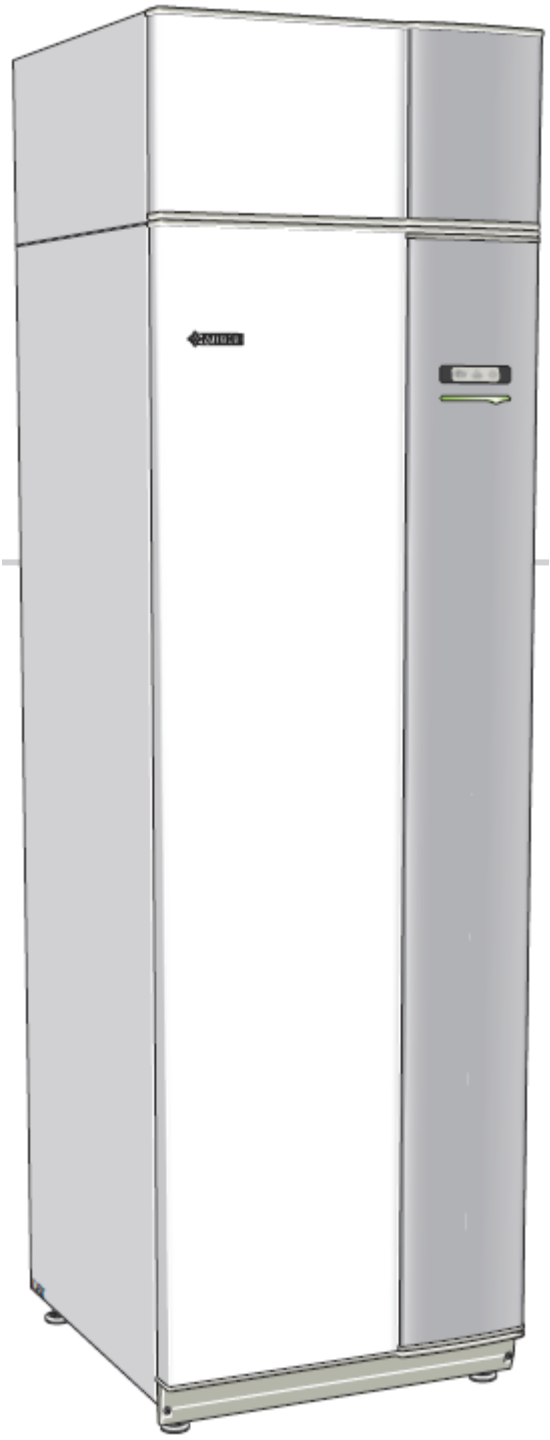
A Quick Guide to Using Your NIBE F470 Exhaust Air Heat Pump.



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How do exhaust air heat pumps work?

An exhaust air heat pump uses the heat that's in the building's ventilation air to heat up the accommodation.

House with exhaust air/ supplier air system and NIBE F470.

The exhaust air heat pump in your property not only supplies all your heating and hot water requirements it also has a controlled ventilation system with heat recovery which provides the necessary air changes in your home.

Nowadays we spend around 90% of the time indoors. This undoubtedly places great demands on the climate inside. The inside climate is affected considerably by odours, moisture, noise, temperature, etc. It is therefore important to have the correct level of ventilation to stop any damage which may occur due to excessive moisture, lack of heat, etc.

In every building there is a certain amount of basic ventilation produced by air coming through windows, doors, pipe ducts etc. This type of ventilation, in older houses provides the necessary exchange of air. This property has been designed and constructed with enhanced insulation and draught proofing measures to prevent heat escaping and make your home more energy efficient. We cannot therefore rely on the natural air changes to provide the correct level of ventilation and must have the heat pump on at all times.

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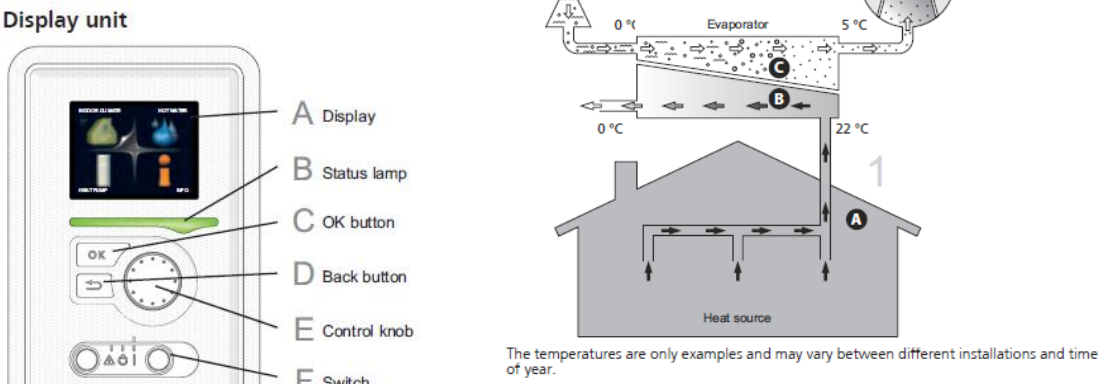
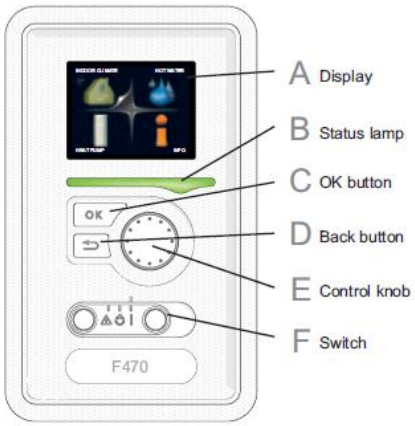
Controlled ventilation with heat recovery reuses the heat / energy in the exhaust air taken from wet rooms such as kitchens, bathrooms, Wc's etc. It uses this energy to provide the heating and hot water for your property.

The heat pump in your property has been commissioned to work at an optimum level and therefore only requires minor adjustment to suit your needs. This can be done by accessing the Menu System on the display unit.



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

Display unit



Using Your NIBE F470 Exhaust Air Heat Pump.

Listed below is some basic information on controlling your heat pump. **Please read the user manual included in your tenant pack carefully to ensure you are familiar with the controls of the heat pump.**

The display unit (*behind the heat pump door*) is used to:

- Switch on, switch off or set the heat pump in emergency mode.
- Set the indoor climate (*house temperature*) and hot water temperature.
- See different types of alarms and receive instructions about how they are to be rectified.

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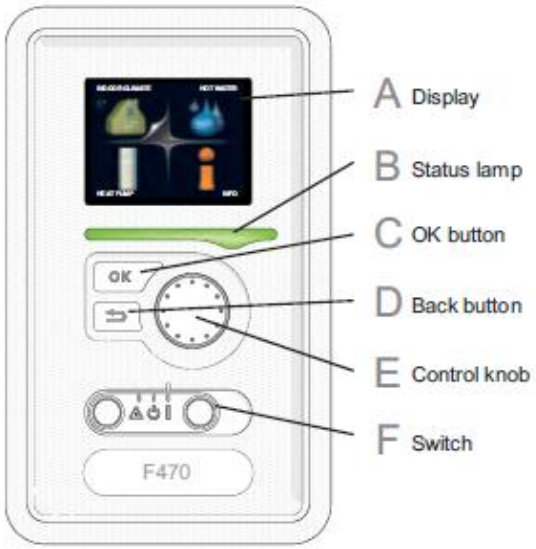
Display unit



A *Display*

Instructions, settings and operational information are shown on the display. The easy-to-read display and menu system, facilitates navigation 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.

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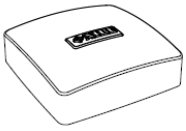
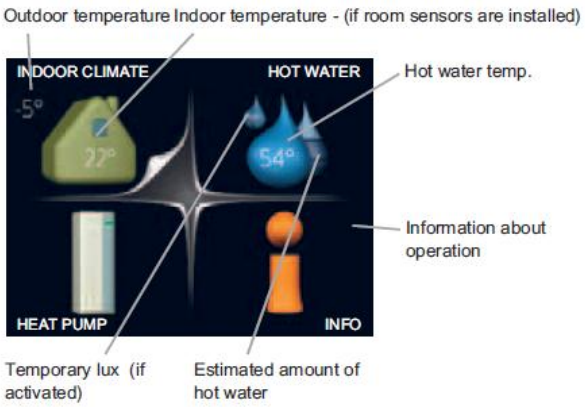
Setting the Indoor Climate (*House Temperature*)

Your house temperature is set by accessing the **'Indoor climate'** menu.

Your property has been fitted with a room sensor so the display will show you the actual indoor and outdoor temperatures at the time of viewing.





Within the Indoor Climate menu there are sub menus'. Select the **'Temperature'** option from the sub menus. A picture of a single thermometer will then appear with a temperature **'Display box'**. The indoor temperature of your property can be adjusted by using the control knob to set the desired temperature in the display box and then click OK.

- *If it is warm outdoors and the room temperature is too low, increase the value in the temperature **'Display box'** by one increment.*

- *If it is warm outdoors and the room temperature is too high, reduce the value in the temperature **'Display box'** by one increment.*

When adjusting the indoor temperature please wait 24 hours before making a new setting, so that the room temperature has time to stabilise.

Caution

Your heat pump requires the **indoor temperature to be at least 16°C** to operate efficiently. The electric immersions will activate when indoor temperatures are below the minimum. Please be aware of this when adjusting the indoor temperature setting.

Your property is fitted with under floor heating on the ground floor and radiators on the first floor *(where applicable).* The underfloor heating can be controlled by individual room thermostats (*where applicable*) and the radiators with thermostatic valves which allow you to control the temperatures in each room. An increase in the room temperature can be slowed by the radiator thermostats so it is advised to open the valves fully in the first instance then adjust to suit thereafter. It should be noted that due to the low temperatures involved with this type of heating system your radiators will never get 'really' hot and have been sized to allow for this.

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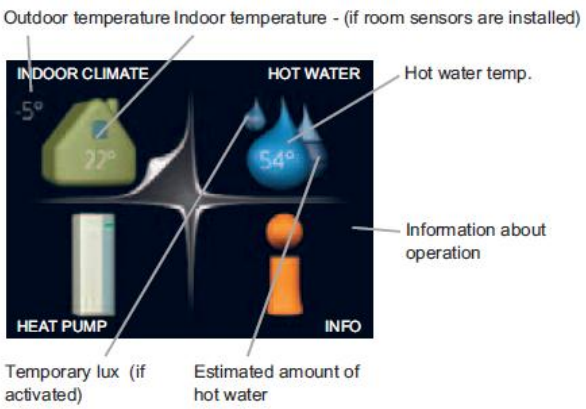
Setting the Hot Water Capacity (*Hot water Temperature*)

Your hot water is supplied via the heat pump and has three settings: Economy, Normal & Luxury.



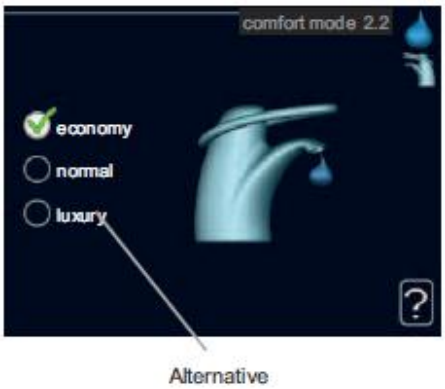
The difference between the selectable modes (*economy, normal & luxury*) is the temperature of the hot tap water. Higher temperature means that the hot water lasts longer.

You can access these settings by highlighting the hot water menu (water droplet) using the control knob and then press the OK button. This will take you to the **'Hot Water 2'** menu.

Select the **'Comfort Mode'** option using the control knob and OK button to take you into the 'Comfort Mode 2.2' page. You can now choose the setting you require using the control knob and OK button. *The heat pump in your property is set to 'Normal' as we recommend this setting for your house type.*

The **'Economy'** mode gives less hot water than the others, but is more economical. This mode is used in smaller households with a small hot water requirement.

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



The **'Luxury'** mode gives the greatest possible amount of hot water. In this mode the immersion heater, as well as the compressor, is used to heat hot water, which may increase operating costs. *Note: In Lux mode the heat pump prioritises hot water before room heating.*

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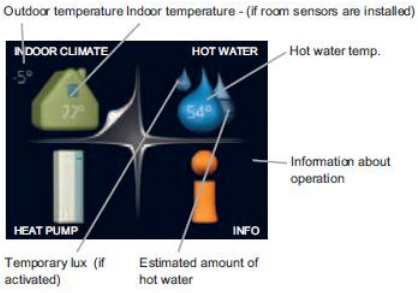
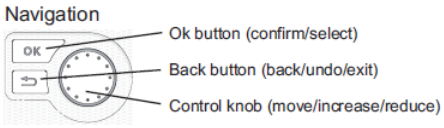
Boosting the Hot Water (*Temporary Lux)*

To temporarily boost the amount of hot water, highlight the hot water menu (water droplet) using the control knob and then press the OK button. This will take you to the **'Hot Water 2'** menu.



Select the **'Temporary Lux'** option using the control knob and OK button to take you into the 'Temporary Lux 2.1' page.



On the**'Temporary Lux 2.1'** page you have the option of boosting the hot water for three, six or twelve hours.

The boost is activated immediately when a time period is selected and confirmed using the OK button.

Please note that when you select the 'Temporary Lux' option you are asking the heat pump to increase the hot water temperature to the Luxury setting for the time period requested.

<u>In this mode the immersion heater, as well as the compressor, is used to heat hot water, which may increase operating costs.</u>

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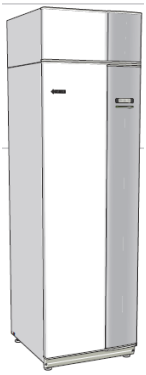
Maintenance of your Heat Pump

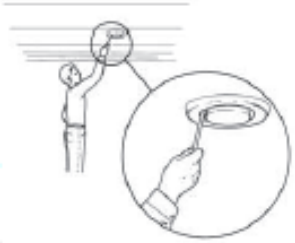
All servicing must be carried out by a competent person. Hjaltland Housing Association will arrange for an annual service of your heat pump. There is however some minor tasks and checks to carried out by the user.



Cleaning the Ventilation Devices:

The ventilation system has been balanced. This involves adjusting the extract and supply terminals to ensure the correct flow rates are achieved.

Your properties ventilation outlets in the ceiling should be cleaned regularly with, for example, a small brush to maintain the correct ventilation flow rates. <u>The outlets must not be adjusted as this will put the system out of balance.</u>

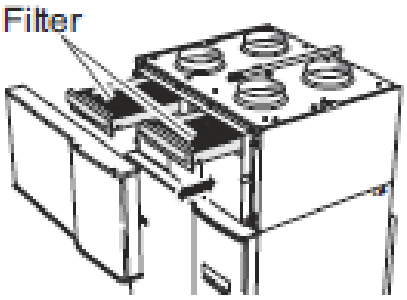


Cleaning the Air filters:

Your heat pump has two air filters located behind the top panel of the unit. The filters need to be cleaned regularly, how often depends on the amount of dust in the ventilation air.
When it is time to clean, an alarm indication occurs is displayed. This will happen every three months.

To clean the filters you must:

1. Set the switch to ⏻
2. Remove the upper front cover by pulling it straight out.
3. Pull out the filter cassette.
4. Take out the filter and shake / vacuum off any dirt. <u>Do not use water or other liquids for cleaning.</u>
5. Check the filter is not damaged.
6. Carry out assembly in reverse order.



Even if the filter appears clean, dirt collects in it and this affects the efficiency of the filter.
Please read the manufacturers user manual for further information on maintenance of your heat pump.

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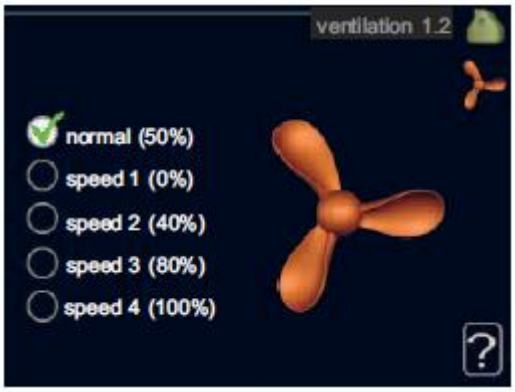
Using Your Nibe F470 Heat Pump (*Generally*)

The instructions listed previously are for setting the house and hot water temperatures only. There is however a lot more options available to you via the display unit on the front of the heat pump. These include the ability to set heating, ventilation and hot water schedules.

Scheduling Heating gives you the ability to increase or decrease the indoor temperature for up to three time periods a day, for example if you want to turn the heating down when you are out of the house, whilst at work, you can do this by accessing the 'scheduling heating' menu. See the user manual for further instructions. *Please remember your heat pump requires the indoor temperature to be at least 16°C to operate efficiently.*

Scheduling Ventilation gives you the ability to increase or decrease the ventilation in your property for up to two time periods a day. The correct amount of ventilation for your property is achieved on the normal setting for ventilation, so you do not need to do anything further unless you want to increase the level of ventilation. See the user manual for further instructions.



Scheduling Hot Water gives you the ability to increase or decrease the temperature of the hot water for up to two time periods a day. Your heat pump is set to the Normal setting and should not require any further adjustment, unless you wish to set specific days and times for the water temperature to increase or decrease. See the user manual for further instructions.

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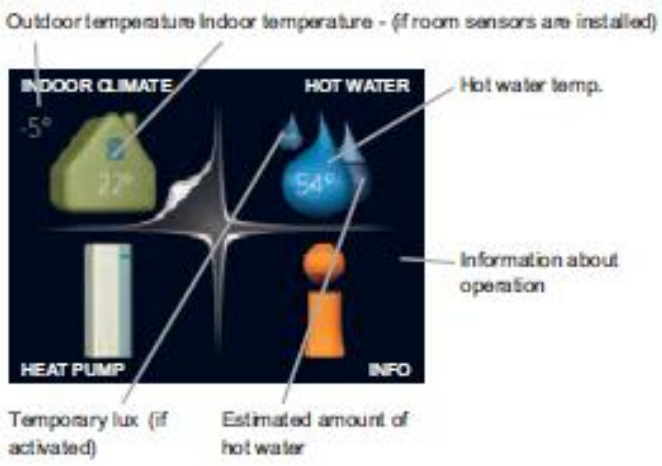
Using Your Nibe F470 Heat Pump (*Generally*)

Advanced Settings is available in the indoor climate, hot water and heat pump menus. This option is for advanced users and we would ask that you do not change any settings within this menu unless you are fully aware of the outcome of any adjustments. Changes within this menu might result in increased running costs.

Information on the heat pump is available via the **Info** menu. There are several sub menus. No settings can be changed in these menus; it is just the display of information.



The **Heat Pump** menu has several sub menus. Through these menus you can change the language, time & date, visible icons etc.
See the user manual for further instructions.

This guide is meant as a quick introduction to using your heat pump. The Association strongly advise you to read the manufacturers user manual to familiarise yourself with the options available for heating and hot water.