ComfortZone

ComfortZone CE50

Operation



Contents - Operation

Contents - Operation 0

Control panel and controller 1

Settings in operation 2
- General 2
- Room temperature 2
- Hot water temperature 2
- Hot water priority 3
- Night reduction - delay of additional power 3
- Holiday reduction 3

Maintenance 4
- Cleaning of air filter 4
- System pressure check 5
- Note! Main switch 5

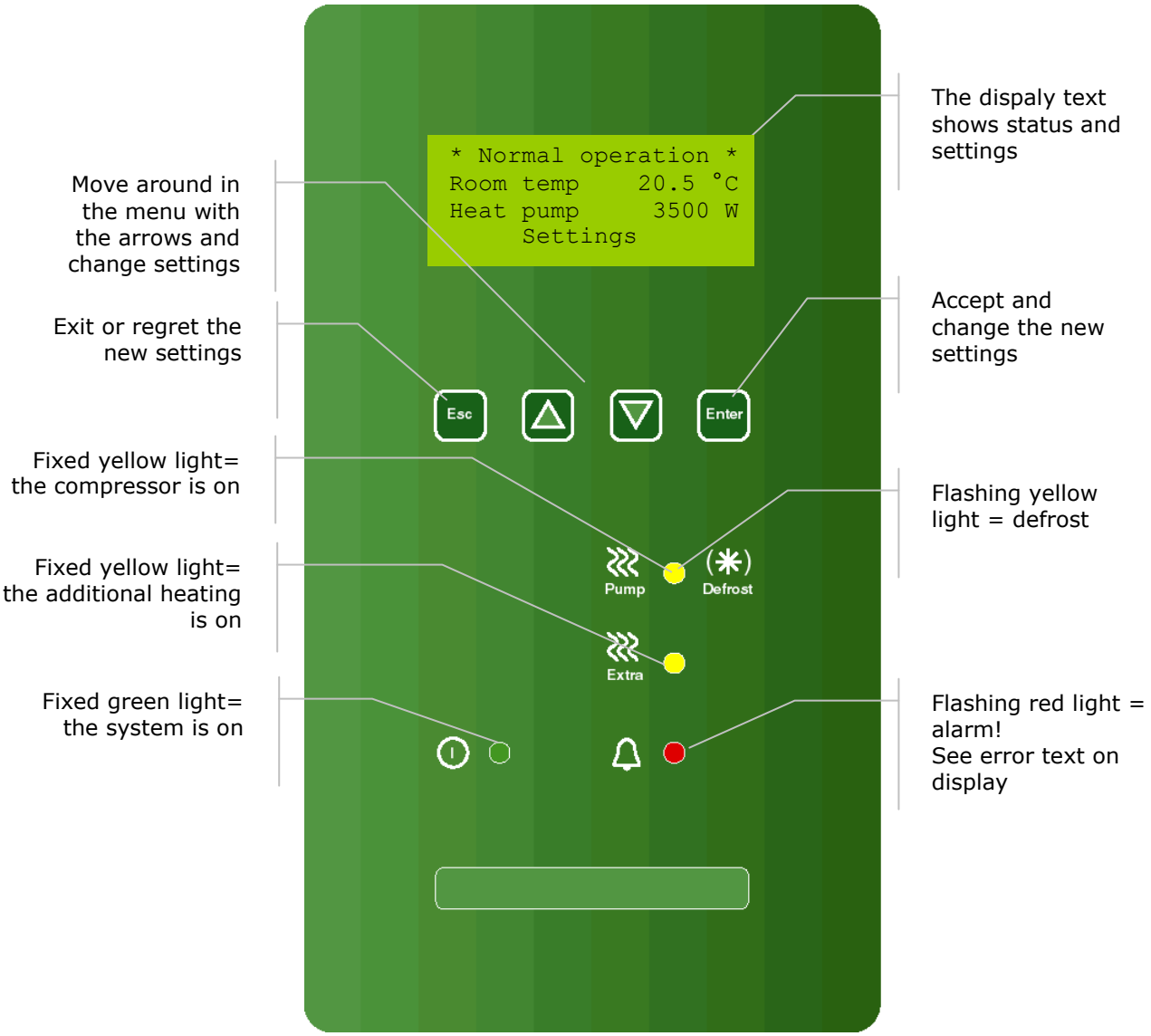
Technical data 6
- Technical data 6

Control panel and controller

The heat pump controller and control panel is located on the front. The compressor, the fan, the inverter and other parts of the heat pump is supervised and controlled from this. The heating system is self adjusting according to the user settings.

The buttons are used to set desired room temperature and hot water temperature. No other settings are needed. The coloured dioded and the display text gives the user information on the system operation.

Note! The make the system operate well it is necessary to set the thermostats in the main areas of the house fully open - the overall temperature control of the indoor temperature is done by the heat pump controller.
The thermostats may be used to limit the temperature in a few rooms, such as the bedrooms. Always let the system stabilize for a day or two before the thermostats are adjusted.



Settings in operation

General

Scroll in the menu with the arrow buttons, ▲ or ▼.

Press Enter **Change** to alter a parameter. Select the new value with the arrows. Accept a change with Enter **Change**.

Return to the menu with Esc **Done**.

Before the change is accepted it can always be cancelled by pressing Esc.



Room temperature

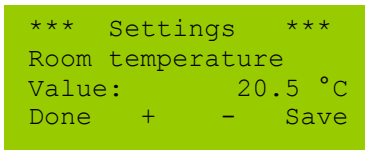
Selects desired room temperature:

- Scroll to **Room temperature** with the arrows, ▲ or ▼.

  Press Enter **change**.

- Set desired temperature by increasing (+) or decreasing (-) . The value is changed by 0,5 °C each time any arrow button is pressed..

  Save the change with Enter **Save**.



Remember that the energy consumption increases with increased room temperature.

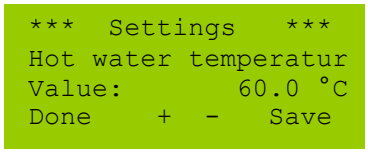
Hot water temperature

Set desired hot water temperature, up to 60 °C (default 55 °C):

- Scroll to **Hot water temperature** with the arrows.

  Press Enter **change**.

- Set desired temperature by increasing (+) or decreasing (-) . The value is changed by 5 °C each time any arrow button is pressed.



- Save the change with Enter **Save**.

Hot water priority

At high Hot water priority more additional power is used, which leads to higher energy consumption compared to normal or low Hot water priority.

Normal	Additional power is used at high hot water consumption.
Low	Only heat pump, no additonal power. Slower hot water production.
High	Additional power is put in faster than at normal priority. Faster hot water production.

- Scroll to **`Hot Water priority`** using the arrows.

  Press Enter **`change`**.

- Set desired Hot water priority with the arrows.
- Save the change with Enter **`Save`**.

```
***  Settings   ***
Hot water priority
Value:        Normal
Done    +  -   Save
```

Night reduction - delay of additional power

The purpose of this function is to prioritize heat pump power over addtional power, and has no real connection to the time of the day. By delaying the turn-on of additional power the use of it is reduced if the need is only for a few hours, such as during nights.

The delay is set as an acceptable room temperature difference from the set value. While the room temperature is within this acceptable range, no additional power is used for heating.

- Scroll to **`Night reduction`** using the arrows.

  Press Enter **`change`**.

- Set desired value by increasing (+) or decreasing (-) . The value is changed by 0,5 °C each time any arrow button is pressed.
- Save the change with Enter **`Save`**.

```
***  Settings   ***
Night reduction
Value:      - 0.5 °C
Done    +   -   Save
```

Holiday reduction

Enter the number of days the house will be empty. The room temperature is reduced by 10 °C while you are gone, and is restored to normal temperature before you return

Scroll to **`Holiday reduction`** using the arrows.

Press Enter **`Change`**.

- Set desired number of days by increasing (+) or decreasing (-) .
- Save the change with Enter **`Save`**..

```
***  Settings   ***
Holiday reduction
Value:      14  Days
Done    +  -   Save
```

Maintenance

Cleaning of air filter

The air filter must be cleaned a few times per year. When this is needed you will get an alarm and a text message on the display.

```
***     Alarm      ***
Clogged air filter !

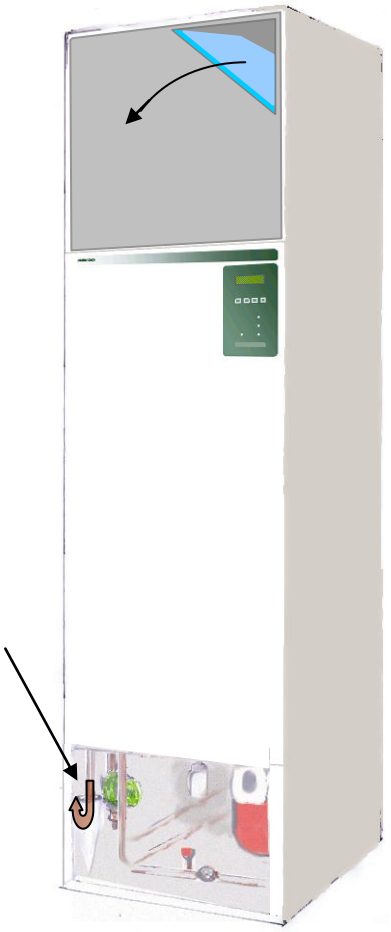
                    Ok
```

Acknowledge the alarm with Enter **Ok**.

(If you do not clean the filter the alarm keep flashing red and will start making beeps again after four days.)

```
***     Alarm      ***
Clean air filter !
Fan                 On
      On    Off     Ok
```

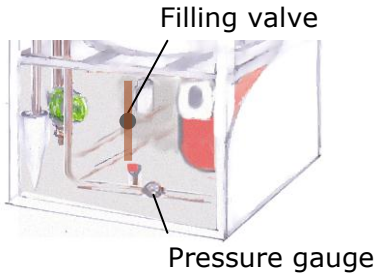
- Press ▽ **Off** to turn of the fan and compressor before you open the filter lid.
- Remove the upper cover by pulling it out and lift it. Open the filter lid by unscrewing the bolts by hand.
- Remove the filter and rinse it in lukewarm water. Use mild detergent if it is very dirty. Squeeze the filter well before it it replaced. Do not wrench it !
- Put the filter back with the firm side facing downwards. Make sure the filter is flat.
- Replace the filter lid and the top cover.
- Press △ **On** to start the fan again. After a few minutes delay the compressor will start, if needed.
- Finish with Enter **Ok.**
- The filter shall be replaced once a year, of more often if it has lost its shape.
  Always use original filters.



System pressure check

The heating system slowly looses pressure. The system pressure shall be checked a few times a year, and if needed filled up. Especially after letting out air from the evaporators.

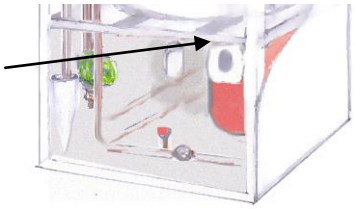
- Remove the bottom cover by pulling it out and lifting it.
- Check the pressure. Consider the normal temperature variation. The pressure gauge shall show 0,5-1,0 bar for a cold system and 1,0-1,5 bar for a warm system.
- If needed open the filling valve until the pressure reaches desired value .
- Close the filling valve firmly and replace the bottom cover.



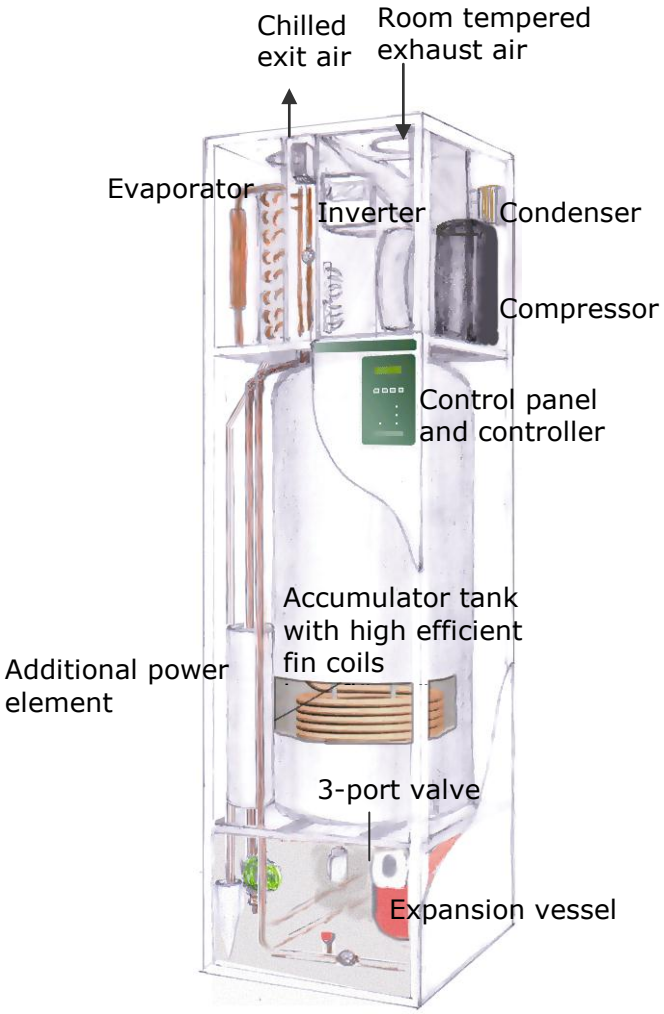
Note! Main switch

The main switch is placed behind the bottom cover, on the right.

When power is on a green lamp is lit on the display.



Technical data



Technical data

Heat pump, heating power	5,0 kW
Additional power, electrical	6,0/9,0 * kW
Coolant R134a	1,2 kg
Air flow	150-320 m3/h
Hot water temp (adjustable)	50-60 C
Volyme of accumulator tank	175 l
Hot water capacity	290/350 * l/h
Max pressure circulation water	0,25 MPa
Voltage	400 V (3-phase+N)
Fuse	16/20 * A
Height	2 100 mm
Width	600 mm
Depth	620 mm
Weight	220 kg

* alternative 6 or 9 kW