

Operating instructions



multiMATIC

VRC 700/5

AT, BE (de), CH (de), DE

Publisher/manufacture

Vaillant GmbH

Berghauser Str. 40 ■ D-42859 Remscheid
Tel. +49 21 91 18-0 ■ Fax +49 21 91 18-2810
info@vaillant.de ■ www.vaillant.de





Ihr Online-Fachhändler für:



Vaillant

- Kostenlose und individuelle Beratung
- Hochwertige Produkte
- Kostenloser und schneller Versand

- TOP Bewertungen
- Exzellerter Kundenservice
- Über 20 Jahre Erfahrung



E-Mail: info@unidomo.de | Tel.: 04621 - 30 60 89 0 | www.unidomo.de

Contents

Contents

Index 27

1	Safety	3
1.1	Action-related warnings	3
1.2	Intended use	3
1.3	General safety information	3
1.4	Recycling and disposal	3
2	Notes on the documentation	5
2.1	Observing other applicable documents	5
2.2	Storing documents	5
2.3	Validity of the instructions	5
2.4	Nomenclature	5
2.5	Function availability	5
3	Product description	5
3.1	Design of the product	5
3.2	Main function	5
3.3	Zones	6
3.4	Hybrid manager	6
3.5	Frost protection function	6
3.6	Preventing malfunctions	6
3.7	Identification plate	6
3.8	Serial number	6
3.9	CE label	6
4	Operation	6
4.1	Operating structure	6
4.2	Basic display	7
4.3	Operating concept	8
5	Operating and display functions	10
5.1	Information	10
5.2	Settings	12
5.3	Operating modes	16
5.4	Advanced functions	17
5.5	Messages	18
6	Troubleshooting	18
6.1	Temporarily setting limp home mode	18
7	Care	19
7.1	Caring for the product	19
8	Decommissioning	19
8.1	Decommissioning the product	19
8.2	Recycling and disposal	19
9	Guarantee and customer service	19
9.1	Guarantee	19
9.2	Customer service	20
10	Technical data	20
10.1	Product data in accordance with EU Ordinance no. 811/2013, 812/2013	20
Appendix		21
A	Overview of the operating and display functions	21
A.1	Operating modes	21
A.2	End user level	21
B	Troubleshooting	25
C	Maintenance messages	25

1 Safety

1.1 Action-related warnings

Classification of action-related warnings

The action-related warnings are classified in accordance with the severity of the possible danger using the following warning signs and signal words:

Warning symbols and signal words



Danger!

Imminent danger to life or risk of severe personal injury



Danger!

Risk of death from electric shock



Warning.

Risk of minor personal injury



Caution.

Risk of material or environmental damage

1.2 Intended use

In the event of inappropriate or improper use, damage to the product and other property may arise.

The product is intended for using an eBUS interface to control a heating installation with heat generators from the same manufacturer.

Intended use includes the following:

- observance of the operating instructions included for the product and any other system components
- compliance with all inspection and maintenance conditions listed in the instructions.

This product 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 product in a safe way and understand the hazards involved. Children must not play with the product. Cleaning and user maintenance work must not be carried out by children unless they are supervised.

Any other use that is not specified in these instructions, or use beyond that specified in this document shall be considered improper

use. Any direct commercial or industrial use is also deemed to be improper.

Caution.

Improper use of any kind is prohibited.

1.3 General safety information

1.3.1 Danger caused by improper operation

Improper operation may present a danger to you and others, and cause material damage.

- ▶ Carefully read the enclosed instructions and all other applicable documents, particularly the "Safety" section and the warnings.
- ▶ Only carry out the activities for which instructions are provided in these operating instructions.

1.3.2 Moisture and mould damage due to inadequate exchange of air

In heavily insulated rooms that only allow a small exchange of air, moisture and mould damage may occur.

- ▶ Ventilate the rooms regularly by opening windows and activate the **Ventilation boost** function once to save energy.

Conditions: Ventilation unit is connected

- ▶ Do not disconnect the ventilation unit from the power grid.
- ▶ Clean and service the ventilation unit in accordance with the instructions for the ventilation unit.

1.4 Recycling and disposal

- ▶ The competent person who installed your product is responsible for the disposal of the packaging.



If the product is labelled with this mark:

- ▶ In this case, do not dispose of the product with the household waste.
- ▶ Instead, hand in the product to a collection centre for waste electronic or electrical equipment.



If the product contains batteries that are labelled with this mark, these batteries may



1 Safety

contain substances that are hazardous to human health and the environment.

- In this case, dispose of the batteries at a collection point for batteries.



2 Notes on the documentation

2.1 Observing other applicable documents

- You must observe all operating instructions enclosed with the system components.

2.2 Storing documents

- Keep this manual and all other applicable documents safe for future use.

2.3 Validity of the instructions

These instructions apply only to:

VRC 700/5 – article number

Austria	0020242192
Belgium	0020171315
Germany	0020242192
Switzerland	0020171315

2.4 Nomenclature

The following terms are used for simplification:

- Control: If this refers to the **VRC 700** control.
- Remote control: If this refers to the **VR 91** remote control.

2.5 Function availability



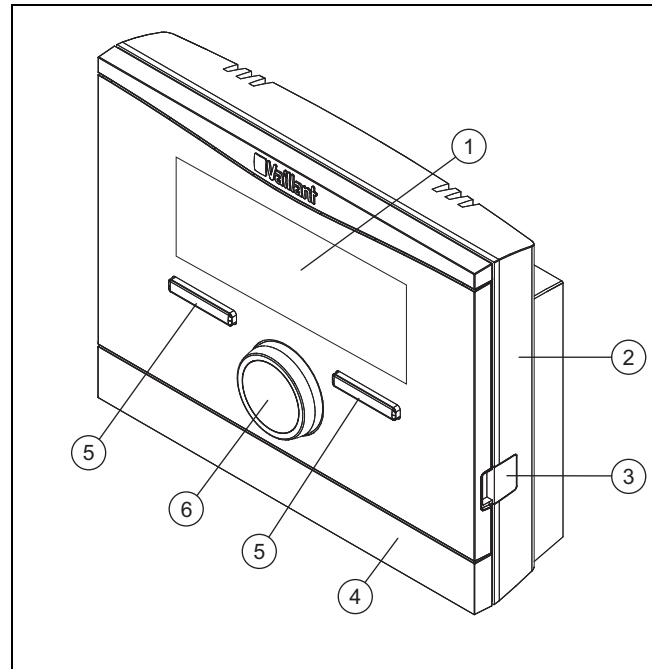
Note

The functions described in these operating instructions are not available for all system configurations.

The controller only shows the functions that are available in the system configuration you have installed.

3 Product description

3.1 Design of the product



- | | | | |
|---|--------------------|---|--------------------------|
| 1 | Display | 4 | Wall-mounting base cover |
| 2 | Wall-mounting base | 5 | Selection button |
| 3 | Diagnostics socket | 6 | Rotary knob |

3.2 Main function

The control is a weather compensator with an outdoor temperature sensor that is fitted in the open air.

The control is connected to the outdoor temperature sensor and the heat generator. The control controls the heating installation and other connected components, e.g. the domestic hot water generation for a connected domestic hot water cylinder or the ventilation of a connected ventilation unit.

3.2.1 Heating

The outdoor temperature sensor measures the outdoor temperature and forwards the values to the control. When the outside temperature is low, the controller increases the flow temperature of the heating installation. If the outdoor temperature increases, the control reduces the flow temperature. The control responds to the fluctuations in the outdoor temperature and uses the flow temperature to ensure that the room temperature remains at the required temperature.

3.2.2 Cooling

The room temperature sensor measures the room temperature and sends the data to the controller. If the room temperature is higher than the desired temperature that is set, the controller switches cooling on.

3.2.3 Ventilation

Using a controlled exchange of air, the ventilation unit ensures that the living rooms are ventilated and aerated. The control controls the air volume flow via the ventilation levels that are set.

4 Operation

3.2.4 Hot water generation

A temperature sensor measures the temperature of the water in the domestic hot water cylinder and forwards the values to the control. At a low domestic hot water temperature, the control increases the temperature in the domestic hot water circuit and thus heats the water in the domestic hot water cylinder to the set domestic hot water temperature.

3.2.5 Circulation

If a circulation pump is installed in the heating installation, the draw-off points will provide hot water more quickly. The circulation pump pumps hot water through the secondary return pipes in the circuit and to the draw-off points.

3.3 Zones

A building is divided into several zones if the heat demand differs between different sections of the building.

- If underfloor heating and radiator heating are installed in a house.
- If a house contains more than one independent residential unit.

If more than one zone is available, the controller controls the available zones.

3.4 Hybrid manager

If you have connected a heat pump, the hybrid manager attempts to cover the declared energy requirement under the considerations of the cost optimisation and the technical conditions.



Note

To ensure that the heat pump and the boiler can work effectively and in synch with one another, the tariffs (→ Page 15) must be set correctly. If the tariffs are set incorrectly, this may result in increased costs.

If the system declares an energy requirement, the hybrid manager switches on and forwards the energy requirement to the heat generator. The hybrid manager decides which heat generator to operate based on the tariffs that are set in relation to the energy requirement.

3.5 Frost protection function

The frost protection function protects the heating system and apartment from frost damage. The frost protection function monitors the outside temperature.

If the outside temperature

- falls below 4 °C, the controller switches the heat generator on after a frost protection delay time, and brings the target room temperature to 5 °C.
- rises above 5 °C, the controller does not switch the heat generator on but monitors the outside temperature.



Note

The competent person can set the frost protection delay time.

3.6 Preventing malfunctions

- ▶ Ensure that air can circulate freely around the controller, and that the controller is not covered by furniture, curtains or other objects.
- ▶ Ensure that all radiator valves in the room where the controller is fitted are fully open.

3.7 Identification plate

The identification plate is located inside the product and is not accessible from the outside.

3.8 Serial number

You can call up the serial number to the display under **Menu** → **Information** → **Serial number**. The 10-digit article number is located in the second line.

3.9 CE label



The CE label shows that the products comply with the basic requirements of the applicable directives as stated on the identification plate.

The declaration of conformity can be viewed at the manufacturer's site.

4 Operation

4.1 Operating structure

4.1.1 Adjustment and display levels

The product has two adjustment and display levels.

The end user level contains information and setting options that you require as the end user.

The installer level is reserved for the competent person. It is protected by a code. Only competent persons may change any settings in the installer level.

Operating levels (→ Page 21)

4.1.2 Menu structure design

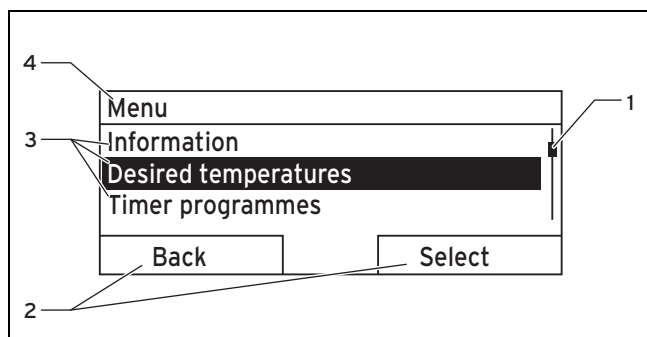
The menu structure consists of several selection levels and a setting level.

You can always use the selection button **Menu** to access selection level 1 from the basic display.

You can use the selection button **Op. mode** to directly access the setting level **Operating mode**.

The lowest level is always the setting level.

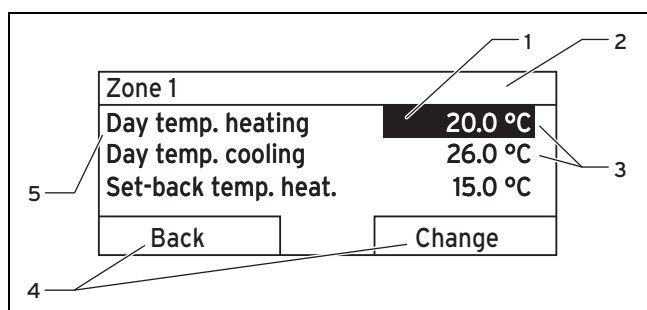
4.1.3 Selection level



- | | | | |
|---|--|---|-------------------------------------|
| 1 | Scroll bar | 3 | Selection level list entries |
| 2 | Current functions of the selection buttons | 4 | Current function or selection level |

The scroll bar (1) only appears if there are more list entries than can be shown at once on the display.

4.1.4 Setting level



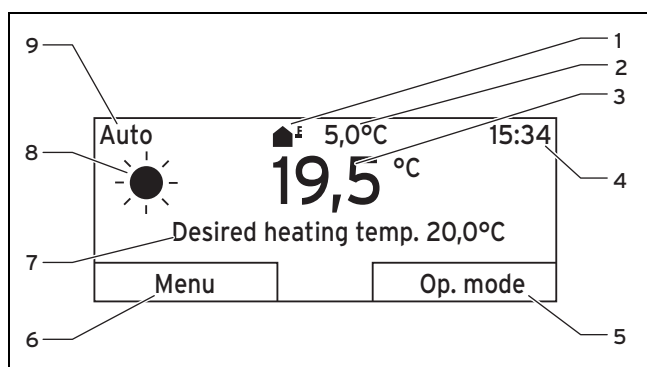
- | | | | |
|---|-------------------------|---|--|
| 1 | Current selection | 4 | Current functions of the selection buttons |
| 2 | Current selection level | 5 | Setting level |
| 3 | Values | | |

In the setting level, you can select the values you want to read or change.

4.1.5 Soft key function for the selection buttons

Both selection buttons have a soft key function, i.e. different functions may be assigned to the selection buttons. If, for example, you press the left-hand selection button, the current function switches from **Menu** to **Back**.

4.2 Basic display



- | | | | |
|---|--------------------------------|---|---|
| 1 | Symbol for outdoor temperature | 3 | Room temperature (for wall-mounting only) |
| 2 | Outdoor temperature | 4 | Time |

- | | | | |
|---|---|---|---------------------------------------|
| 5 | Function of the right-hand selection button | 8 | Symbol for Auto operating mode |
| 6 | Function of the left-hand selection button | 9 | Mode for the current operating mode |
| 7 | Desired setting | | |

The basic display appears:

- Depending on which level you are in, you must press the left-hand selection button several times.
- If the control is in a selection level or setting level and you do not operate the control for more than 5 minutes.

4.2.1 Preferred zone in the basic display

If your heating installation has several zones, the competent person sets the zone whose values are to appear in the basic display.

4.2.2 Preferred operating mode in the basic display

If your heating installation is designed for two of the three operating modes (heating, cooling or ventilating), you can switch the basic display to the required operating mode. Depending on the selected operating mode and the mode in which the operating mode is found, various information may appear in the basic display.

4.2.3 Information in the basic display

The basic display shows the most important current settings and values for the heating installation.

Various information may appear in the basic display. It depends on which operating mode you select and which settings you have implemented for the selected operating mode.

4.2.3.1 Basic display for the Heating operating mode

Mode	Time periods	Symbol	Desired setting
Auto	On	☀	Desired heating temp. appears: The control maintains the temperature at the desired level.
	Off	☾	
Day			Empty line appears: The control does not request any heating energy.
Set-back			
off			Empty line

4 Operation

4.2.3.2 Basic display for the Cooling operating mode

Mode	Time periods	Symbol	Desired setting
Auto	On	☀	Desired cooling temp.
	Off	☾	Empty line
Day			Desired cooling temp.
off			Empty line

4.2.3.3 Basic display for the Ventilation operating mode

Mode	Time periods	Symbol	Desired setting
Auto	On	☀	Max. vent. stage
	Off	☾	Max. vent. stage
Day			Ventilation stage
Set-back			Ventilation stage

4.2.3.4 Basic display for the Manual cooling advanced function

Mode	Time periods	Desired setting
Activated	On	Desired cooling temp.
	Off	Empty line

4.3 Operating concept

The controller is operated using two selection buttons and a rotary knob.

You can use the selection buttons to do the following:

- Navigate through the selection levels and the setting level in the menu structure.
- Select a set value.
- Confirm a set value.
- Navigate to the operating modes.
- Cancel changing a set value.

You can use the rotary knob to do the following:

- Navigate through the list entries for a selection level.
- Select a selection level or setting level.
- Change a selected set value.

The display shows an element that is highlighted by white writing on a black background. A flashing, highlighted value means that you can change the value.

If you do not operate the control for more than 10 seconds, the background lighting switches off.

If you do not operate the control for more than 60 seconds, the control becomes inoperative and dashes (--) appear on the display instead of values.

If you do not operate the controller during a period of more than 5 minutes, the basic display appears again.

4.3.1 Using the rotary knob to make settings in the basic display

If the display shows the basic display, you can use the rotary knob to change the desired setting.

The setting that you change depends on the selected basic display, operating mode and the set mode for the operating mode.

4.3.1.1 Changing the desired setting in the Heating operating mode

Desired day temperature Only today: 18 °C For long-term change, press OK		
		OK

Mode	Time periods	Effect
Auto	On	Switch to another display view with the request: – Permanent change to the Day temp. heating – Change to the Day temp. heating for six hours
	Off	Direct change to the Set-back temp. heat. for six hours
Day		Switch to another display view with the request: – Permanent change to the Day temp. heating – Change to the Day temp. heating for six hours
Set-back		Direct change to the Set-back temp. heat. for six hours
off		None

4.3.1.2 Changing the desired setting in the Cooling operating mode

Mode	Time periods	Effect
Auto	On	Direct permanent change to the Day temp. cooling
	Off	None
Day		Direct permanent change to the Day temp. cooling
off		None

4.3.1.3 Changing the desired setting in the Ventilation operating mode

Mode	Time periods	Effect
Auto	On	Direct permanent change to the Max. vent. stage: Day
	Off	Direct permanent change to the Max. vent. stage: Night
Day		Direct permanent change to the Max. vent. stage: Day
Set-back		Direct permanent change to the Max. vent. stage: Night

4.3.1.4 Changing the desired setting in the Manual cooling advanced function

Mode	Time periods	Effect
Activated	On	Direct permanent change to the Day temp. cooling
	Off	None

4.3.1.5 Using the rotary knob to make settings with no effect

You cannot influence the following advanced functions by turning the rotary knob:

- **System OFF active**
- **Cylinder boost**
- **Party function**
- **1 day at home**
- **Days at home scheduling**
- **1 day away from home**
- **Days away from home scheduling**
- **Ventilation boost**
- **Screed-drying function**

4.3.2 Example, changing the display contrast

Auto

🏠^E 5.0 °C
19.5 °C

15:34

Desired heating temp. 20.0 °C

Menu
Operating mode

1. If the display does not show the basic display, press the left-hand selection button **Back** until the basic display appears on the display.
2. Press the left-hand selection button **Menu**.
 - ◁ The controller switches to selection level 1.

Menu

Information

Desired temperatures

Timer programmes

Back
Select

3. Turn the rotary knob until the list entry **Basic settings** is highlighted.

Menu

Planning days away from home

Days at home scheduling

Basic settings

Back
Select

4. Press the right-hand selection button **Select**.
 - ◁ The controller switches to selection level 2.

Basic settings

Language

Date/time

Display

Back
Select

5. Turn the rotary knob until the list entry **Display** is highlighted.

Basic settings

Language

Date/time

Display

Back
Select

6. Press the right-hand selection button **Select**.
 - ◁ The controller will switch to setting level **Display**. The adjustable value for the **Display contrast** will be highlighted.

Display

Display contrast

Button lock

Back
Change

7. Press the right-hand selection button **Change**.
 - ◁ The highlighted value flashes.

Display

Display contrast

Button lock

Cancel
OK

8. Turn the rotary knob to change the value.

5 Operating and display functions

Display	
Display contrast	12
Button lock	
Cancel	OK

9. Press the right-hand selection button **OK** to confirm the change.
 - ◀ The controller has saved the changed value.
10. Press the left-hand selection button **Back** repeatedly to go back to the basic display.

5 Operating and display functions



Note

The functions described in this section are not available for all system configurations.

Overview of operating modes and the end user level

Operating modes (→ Page 21)

Operating levels (→ Page 21)

The path details given at the start of each function description indicate how you reach this function in the menu structure.

The description of the functions for **ZONE1** also applies for all available zones.

5.1 Information

5.1.1 Reading the system status

Menu → Information → System status

- Under **System status**, there is a list containing information that provides an overview of the current system status, and current settings that you can change there.

5.1.1.1 System

Menu → Information → System status → Fault status

- If no maintenance is required and no faults have occurred, the value **No fault** appears for **Fault status**. If maintenance is required or a fault has occurred, the value **Fault list** is shown for **Fault status**. In this case, the right-hand selection button is for the **Display** function. If you press the right-hand selection button **Display**, the list of fault messages appears on the display.

Menu → Information → System status → Green IQ

- You can use the function if the connected heat generator **Green IQ** is capable of this.

On: The operating mode controls the heat generator in the heating and cylinder charging mode so that a maximum gross calorific value utilisation is achieved.

Off: The operating mode is switched off.

Menu → Information → System status → Water pressure

- You can use this function to read the water pressure of the heating installation.

Menu → Information → System status → System status

- You can use this function to read the heating installation's operating mode.
- **Standby:** The heating installation has no energy requirement and is in standby.
- **Heat. mode:** The heating installation heats the living areas to the **Desired heating temp.**
- **Cooling:** The heating installation cools the living areas to the **Desired cooling temp.**
- **DHW:** The heating installation heats the hot water in the cylinder to the desired temperature **Domestic hot water**.

Menu → Information → System status → Collector temp.

- You can use this function to read the current temperature on the collector temperature sensor.

Menu → Information → System status → Solar yield

- You can use this function to read the total solar yield.

Note the contents of the section Display for energy consumption and energy yield (→ Page 11).

Menu → Information → System status → Reset solar yield

- If you select the **Yes** setting in the **Reset solar yield** function and press the right-hand selection button **OK**, you reset the previously totalled solar yield to 0 kWh.

Menu → Information → System status → Environmental yield

- You can use this function to read the total environment yield.

Note the contents of the section Display for energy consumption and energy yield (→ Page 11).

Menu → Information → System status → Reset env.yield

- If you select the **Yes** setting in the **Reset env.yield** function and press the right-hand selection button **OK**, you reset the previously totalled environmental yield to 0 kWh.

Menu → Information → System status → Curr. room air hum.

- You can use this function to read the current room air humidity. The room air humidity sensor is installed in the controller.

Menu → Information → System status → Current dew point

- You can use this function to read the current dew point. The dew point indicates the temperature at which the water vapour in the air condenses and settles on objects.

Menu → Information → System status → triVAI

- You can use this function to read whether the heat pump or the auxiliary heater (gas, oil or electricity) is currently covering the energy requirement. The energy manager uses the **triVAI** and the comfort criteria to decide which heat generator to use.

If the value that is read is greater than 1, the heat pump is better at covering the energy requirement than the auxiliary heater.

5.1.1.2 ZONE1

Menu → Information → System status → Day temp. heating

- You can use this function to set the desired day temperature for the zone.

Day temp. heating is the temperature that you want to have in the rooms during the day or when you are at home.

Menu → Information → System status → Day temp. cooling

- You can use this function to set the desired day temperature for the zone.

Day temp. cooling is the temperature that you want to have in the rooms during the day or when you are at home.

Menu → Information → System status → Set-back temp. heat.

- You can use this function to set the desired set-back temperature for the zone.

Set-back temp. heat. is the temperature that you want to have in the rooms during the night or when you are away from home (night mode).

Menu → Information → System status → Room temperature

- If the controller is installed outside of the heat generator, you can read the current room temperature.

The controller has an integrated temperature sensor, which determines the room temperature.

5.1.1.3 Ventilation

Menu → Information → System status → Air quality sensor 1/2

- You can use this function to read the measured values from the air quality sensor.

Menu → Information → System status → Exhaust air humidity

- You can use this function to read the exhaust air humidity in the ventilation unit's ventilation shaft.

5.1.2 Display of energy consumption and energy yield

In the display and in the app that can also be used, the control displays values for the energy consumption and/or the energy yield.

The control displays an estimation of the values for the installation. Among other things, the values are influenced by the following:

- The installation/design of the heating installation
- User behaviour
- Seasonal environmental conditions
- Tolerances and components

External components, such as external heating pumps or valves, and other consumers and appliances in the household are still not taken into consideration.

The deviations between the energy consumption or energy yield that is displayed and the actual energy consumption or energy yield may be significant.

The specifications for the energy consumption or energy yield are not suitable to be used to create or compare energy billing.

5.1.2.1 Consumption

Some components do not support the calculation of consumption, the total of which is shown on the display. In the instructions for the components, you can find out if and how the individual components determine the consumption.

Menu → Information → Consumption → Current month → Heating → Electricity

- You can use this function to read the total electrical consumption for heating in the current month.

Menu → Information → Consumption → Current month → Heating → Fuel

- You can use this function to read the total fuel consumption in kWh for heating in the current month.

Menu → Information → Consumption → Current month → Hot water → Electricity

- You can use this function to read the total electrical consumption for hot water in the current month.

Menu → Information → Consumption → Current month → Hot water → Fuel

- You can use this function to read the total fuel consumption in kWh for hot water in the current month.

Menu → Information → Consumption → Last month → Heating → Electricity

- You can use this function to read the total electrical consumption for heating in the last month.

Menu → Information → Consumption → Last month → Heating → Fuel

- You can use this function to read the total fuel consumption in kWh for heating in the last month.

Menu → Information → Consumption → Last month → Hot water → Electricity

- You can use this function to read the total electrical consumption for hot water in the last month.

Menu → Information → Consumption → Last month → Hot water → Fuel

- You can use this function to read the total fuel consumption in kWh for hot water in the last month.

Menu → Information → Consumption → History → Heating → Electricity

- You can use this function to read the total electrical consumption for heating since start-up.

Menu → Information → Consumption → History → Heating → Fuel

- You can use this function to read the total fuel consumption in kWh for heating since start-up.

Menu → Information → Consumption → History → Hot water → Electricity

- You can use this function to read the total electrical consumption for hot water since start-up.

Menu → Information → Consumption → History → Hot water → Fuel

5 Operating and display functions

- You can use this function to read the total fuel consumption in kWh for hot water since start-up.

5.1.2.2 Diagram: Reading the solar yield

Menu → Information → Solar yield

- The diagram under **Solar yield** shows a comparison of the monthly solar yields between the previous and the current year.

The total yield is displayed on the bottom right. The highest value achieved in one month for the last two years is displayed in the top right.

5.1.2.3 Diagram: Reading the environmental yield

Menu → Information → Environmental yield

- The diagram under **Environmental yield** shows a comparison between the monthly environmental yields for the previous year and for the current year.

The total yield is displayed on the bottom right. The highest value achieved in one month for the last two years is displayed in the top right.

5.1.2.4 Diagram: Reading the electrical consumption

Menu → Information → Electrical consumption

- The diagram under **Electrical consumption** shows a comparison between the monthly consumption of electricity for the previous year and for the current year.

The total yield is displayed on the bottom right. The highest value achieved in one month for the last two years is displayed in the top right.

5.1.2.5 Diagram: Reading the fuel consumption

Menu → Information → Fuel consumption

- The diagram below **Fuel consumption** shows a comparison between the monthly fuel consumption for the previous year and for the current year.

The total yield is displayed on the bottom right. The highest value achieved in one month for the last two years is displayed in the top right.

5.1.2.6 Diagram: Reading the heat recovery yield

Menu → Information → Heat recovery

- The diagram under **Heat recovery** shows a comparison between the monthly heat recovery yield for the previous year and for the current year.

The total yield is displayed on the bottom right. The highest value achieved in one month for the last two years is displayed in the top right.

5.1.3 Read competent person contact details

Menu → Information → Contact details

- If the competent person entered their company name and telephone number when they installed the product, you can read this data under **Contact details**.

5.1.4 Reading the serial number and article number

Menu → Information → Serial number

- **Serial number** shows the serial number of the controller, which the competent person may require you to tell him. The article number is found in the second line of the serial number.

5.2 Settings

5.2.1 Setting desired temperatures

This function is used to set the desired temperatures for the zone and hot water generation.

5.2.1.1 Zone

Menu → Desired temperatures → ZONE1

- You can set different desired temperatures for the zone:

Heating

- The desired **Day temp. heating** temperature is the temperature that you want to have in the rooms during the day or when you are at home.
- The desired **Set-back temp. heat.** temperature is the temperature that you want to have in the rooms during the night or when you are away from home.

Cooling

- The desired **Day temp. cooling** temperature is the temperature that you want to have in the rooms during the day or when you are at home.

5.2.1.2 Hot water generation



Danger!

Risk of death from legionella.

Legionella multiply at temperatures below 60 °C.

- Have a competent person inform you about the measures that should be taken to protect against Legionella in your installation.
- Do not set any water temperatures below 60 °C without consulting the competent person first.

Menu → Desired temperatures → Domestic hot water

- You can set the desired **Domestic hot water** temperature for the domestic hot water circuit.

If a heat pump is connected and you have set the desired temperature to above 55 °C, it may be the case that it is the back-up boiler that predominantly takes on the task of supplying domestic hot water.

5.2.2 Setting the ventilation level

Menu → Ventilation stage

- You can use this function to set how quickly the used room air is replaced with fresh outside air.

The **Max. vent. stage: Day** ventilation level ensures the exchange of air that you want to have in the rooms during the day or when you are at home. The **Max. vent. stage: Night**

ventilation level ensures the exchange of air that you want to have in the rooms at night or when you are not at home. The operating instructions for the ventilation unit explain how the ventilation unit works with the ventilation levels.

5.2.3 Setting time programmes

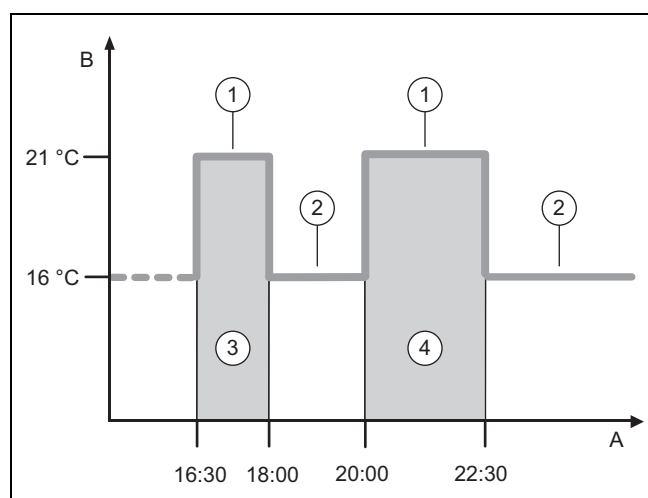
5.2.3.1 Time programme settings after a voltage loss



Note

If you de-energise the entire heating installation, all of the values that are set for the time programmes will remain unchanged.

5.2.3.2 Showing time periods for one day



A	Time	2	Set-back temp. heat.
B	Temperature	3	Time period 1
1	Day temp. heating	4	Time period 2

You can use the **Time programmes** function to set the time period.

If you have not set any time periods, the controller uses the time periods set in the factory settings.

5.2.3.3 Setting time periods for days and blocks

For each day and block, you can set up to three time periods.

The time periods set for a day have priority over the time periods set for a block.

Day temp. heating: 21 °C

Set-back temp. heat.: 16 °C

Period 1: 06:00-08:00

Period 1: 16:30-18:00

Period 1: 20:00-22:30

Within the time periods, the controller brings the room temperature to the set **Day temp. heating**.

Outside the time periods, the controller brings the room temperature to the set **Set-back temp. heat.**.

5.2.3.4 Setting time programmes quickly

If, for example, you require different time periods for just one working day in the week, first set the times for the entire block **Monday - Friday**. Then set the different time period for the working day.

5.2.3.5 Displaying and changing different times in the block

Monday - Sunday	
Period 1:	!! : !! - !! : !!
Period 2:	!! : !! - !! : !!
Period 3:	!! : !! - !! : !!
Back	Select

If you view a block on the display and have defined a different period for a day in this block, the display indicates the different time periods in the block with !!.

Individual dates vary from the selected time programme Mo-Su.	
Back	OK

If you press the right-hand selection button **Select**, a message appears on the display which informs you about different time periods. You do not need to adjust the times.

You can use the right-hand selection button **OK** to display and change the set times for the block marked with !!.

5.2.3.6 Setting the Heating time programme

Menu → Time programmes → ZONE1

- The time programmes are only effective in Automatic mode (→ Page 16). Within the time periods, the controller brings the temperature of the connected rooms to the set desired temperature **Day temp. heating**. Outside of these time periods, the control switches to the operating mode that the competent person has set: **Eco** or **Set-back temp. heat.**. If the competent person has left the default setting **Eco**, the control switches off the heating function.

Setting the **Heating** operating mode. (→ Page 16)

5 Operating and display functions

5.2.3.7 Setting the Cooling time programme

Menu → Time programmes → ZONE1: Cooling

- The time programmes are only effective in the **Cooling** mode and the **Manual cooling** advanced function. In each set time period, the desired temperature that you set in the **Desired temperatures** function applies. Within the time periods, the zone cools the living areas to the desired **Day temp. cooling** temperature. Outside this time period, there is no cooling.

5.2.3.8 Setting the hot water generation time programme

Menu → Time programmes → DHW circuit

- The time programmes are only effective for hot water generation in Automatic mode. In each set time period, the desired **Domestic hot water** temperature applies. At the end of a time period, the controller switches the hot water generation off until the start of the next time period.

5.2.3.9 Circulation time programme

Menu → Time programmes → Circulation

- The time programmes are only effective for circulation in Automatic mode. The set time periods determine the operating times for circulation. Within the time period, the circulation is switched on. Outside the time period, the circulation is switched off.

5.2.3.10 Setting the Ventilation time programme

Menu → Time programmes → Ventilation

- The time programmes are only effective in Automatic mode. In each set time period, the ventilation level that you set in the **Ventilation** function applies. Within the time period, the controller regulates the ventilation unit to **Max. vent. stage: Day** as a maximum. Outside the time period, the controller regulates the ventilation unit to **Max. vent. stge: Night** as a maximum.

5.2.3.11 Setting the High tariff time programme

Menu → Time programmes → High tariff

- You can use this function to set when the high tariff or the low tariff should be used to calculate the costs.

Within the time period: For the high tariff

Outside of the time period: For the low tariff

The times of high tariff depend on your energy supply company.

If the energy supply company only offers one tariff, you do not need to set any time periods. The cost for the electricity is calculated using one tariff.

Setting costs (→ Page 15)

5.2.4 Days away from home scheduling

Menu → Days away from home scheduling

- You can use this function to set a period of time and a temperature for the days that you are away from home.

System operation during the set time period

- The hot water is not being heated.
- The previously set temperature applies for all zones.

- The ventilation runs at the lowest ventilation stage.
- The cooling is switched off.

While the **Days away from home scheduling** function is activated, it has priority over the set operating mode. At the end of the specified period, or if you cancel the function, the heating installation returns to the pre-set mode.



Note

The **Cooling** function remains switched on if this is required by national law. In this case, the competent person adjusts your heating installation in such a way that the **Cooling** function remains switched on at the desired temperature during your absence.

5.2.5 Day at home scheduling

Menu → Days at home scheduling

- In the specified period, the heating installation works in the **Automatic mode** and uses the day settings for **Sunday**, which were set using the **Time programmes** function. At the end of the specified period, or if you cancel the function, the heating installation returns to the pre-set mode.

5.2.6 Select language

Menu → Basic settings → Language

- If the language of e.g. a service technician differs from the set language, you can change the language using this function.

5.2.6.1 Setting your language

1. Press the left-hand selection button repeatedly until the basic display appears.
2. Press the left-hand selection button again.
3. Rotate the rotary knob clockwise until the dotted line appears.
4. Turn the rotary knob anti-clockwise until the second list entry above the dotted line is highlighted.
5. Press the right-hand selection button twice.
6. Turn the rotary knob until you find a language that you understand.
7. Press the right-hand selection button.

5.2.7 Setting the date and time



Note

If you disconnect the entire heating installation from the power supply, the time continues to run correctly for 30 minutes. You then have to reset the date and time.

5.2.7.1 Setting the date

Menu → **Basic settings** → **Date/time** → **Date**

- Select this function to set the current date. All controller functions that contain a date relate to the set date.

5.2.7.2 Setting the time

Menu → **Basic settings** → **Date/time** → **Time**

- Select this function to set the current time. All controller functions that contain a time relate to the set time.

5.2.8 Activating the automatic or manual change-over to daylight saving time

Menu → **Basic settings** → **Date/time** → **Daylight saving time**

- You can use this function to set whether the controller automatically changes over to daylight saving time, or whether you want to do this manually.
- **Auto:** The controller automatically changes over to daylight saving time.
- **Manual:** You have to manually change over to daylight saving time.



Note

Daylight saving time means Central European summer time: Start = last Sunday in March, End = last Sunday in October.

If the outside temperature sensor is equipped with a DCF77 receiver, the daylight saving time setting is irrelevant.

5.2.9 Set display contrast

Menu → **Basic settings** → **Display** → **Display contrast**

- You can set the display contrast in relation to the brightness of the surroundings, to ensure that the display is clearly legible.

5.2.10 Activating Button lock

Menu → **Basic settings** → **Display** → **Button lock**

- You can use this function to activate the button lock. After one minute of not pressing any button or operating the rotary knob, the button lock is active and you can no longer change any functions unintentionally.

Each time you actuate the controller, the following message appears on the display **Button lock active To unlock, press OK for 3 seconds**. If you press and hold the OK button for 3 seconds, the basic display appears and you can change functions. The button lock becomes active again if you do not press any button or operate the rotary knob for one minute.

To permanently remove the button lock, you must first release the button lock and then select the value **off** in the **Button lock** function.

5.2.11 Setting the preferred display

Menu → **Basic settings** → **Display** → **Preferred display**

- You can use this function to choose whether you see the data for heating, cooling or ventilation in the basic display.

5.2.12 Setting costs

You must specify all tariffs in the unit of currency per kWh for the calculation to be correct.

If your energy supply company specifies the gas and electricity tariff in the unit of currency per m³, ask for the precise gas and electricity tariff in the unit of currency per kWh.

If your energy supply company only offers one electricity tariff, enter the same value for the **High-tariff elec. rate** (→ Page 15) and **Low-tariff elec. rate** (→ Page 15) functions.

Round the amount up or down to one decimal place.

Example:

	Costs	Setting/factor
Tariff for aux. heater (Gas, oil, electricity)	11.3 currency units/kWh	113
Low-tariff elec. rate (heat pump)	14.5 currency units/kWh	145
High-tariff elec. rate (heat pump)	18.7 currency units/kWh	187

5.2.12.1 Setting the tariff for the auxiliary boiler

Menu → **Basic settings** → **Costs** → **Tariff for aux. heater**

- The factor/value that is set requires the hybrid manager to calculate costs correctly.

To set the correct factor/value, you will need to ask your energy supply company what your gas and electricity tariff is.

5.2.12.2 Setting the low-tariff electricity rate

Menu → **Basic settings** → **Costs** → **Low-tariff elec. rate**

- The factor/value that is set requires the hybrid manager to calculate costs correctly.

To correctly set **Low-tariff elec. rate**, you must ask your energy supply company what your electricity tariff is.

5.2.12.3 Setting the high-tariff electricity rate

Menu → **Basic settings** → **Costs** → **High-tariff elec. rate**

- The factor/value that is set requires the hybrid manager to calculate costs correctly.

To correctly set **High-tariff elec. rate**, you must ask your energy supply company what your electricity tariff is.

5.2.13 Set offset room temperature

Menu → **Basic settings** → **Offset** → **Room temperature**

- The controller can display the current room temperature if it is installed in a living room.

A thermometer is integrated in the controller for measuring the room temperature. You can use the offset to correct the measured temperature value.

5.2.14 Set offset outside temperature

Menu → **Basic settings** → **Offset** → **Outside temperature**

- The thermometer in the controller's outside temperature sensor measures the outside temperature. You can use the offset to correct the measured temperature value.

5 Operating and display functions

5.2.15 Changing a zone name

Menu → Basic settings → Enter zone name

- You can now modify the factory-specified zone names as you wish. The name is limited to 10 characters.

5.2.16 Activating Heat recovery

Menu → Basic settings → Ventilation → Heat recovery

- The **Heat recovery** function is set to **Auto**. This means that an internal control system checks whether heat recovery makes sense, or whether the outdoor air can be guided directly into the living room. For more information, see the operating instructions for **recoVAIR.../4** and later models.

If you have selected **Activate**, heat recovery is used constantly.

5.2.17 Setting the room air humidity

Menu → Basic settings → Max. room air humidity

- If the room air humidity exceeds the value set, a connected dehumidifier is activated. As soon as the value drops below the value that is set, the dehumidifier switches off again.

5.2.18 Resetting to default setting

You can reset the settings for the **Time programmes** or for **Everything** to the default setting.

Menu → Basic settings → Default setting → Time programmes

- With **Time programmes**, you reset all the settings you have made in the **Time programmes** function to the default setting. All other settings that include times, such as **Date/time**, are not affected.

While the controller is resetting the time programme settings to the default settings, **In progress** is shown on the display. The basic display is then shown on the display.



Caution.

Risk of a malfunction.

The **Default setting Everything** function restores all settings to the default settings, including those set by the competent person. It may be the case that it is no longer possible to operate the heating installation after this.

- Arrange for the competent person to reset all settings to factory settings.

Menu → Basic settings → Default setting → Everything

- While the controller is restoring the default settings, **Reset to default setting In progress** is shown in the display. The installation assistant is then shown in the display; it must only be operated by a competent person.

5.2.19 Installer level

The Installer level is reserved for the competent person and is therefore protected by an access code. At this level, the competent person can implement the required settings.

5.3 Operating modes

The operating modes can be activated directly from any operating mode using the right-hand selection button **Op. mode**. If the heating installation is equipped with more than one zone, the activated operating mode only applies for the zone that was preset by the competent person.

If more than one zone is activated, you can set a separate operating mode for each zone using the left-hand selection button **Menu** → **Basic settings**.

The path details given at the start of each operating mode description indicate how you reach this operating mode in the menu structure.

5.3.1 Setting the Heating operating mode

Op. mode → Heating

Menu → Basic settings → Operating mode → ZONE1 → Heating

- You can use this function to specify how the system operates in heating mode.

off: The zone is switched off in this operating mode and the frost protection function is activated.

Auto: The operating mode brings the zone to the desired temperature set for **Day temp. heating** in the time periods that you have set in the time programme.

Outside these time periods, the controller regulates the controller behaviour set by the competent person.

- **Eco**: The heating function is switched off and the controller monitors the outside temperature. If the outside temperature falls below 3 °C, the controller switches the heating function on after the end of the frost protection delay time and brings the room temperature to the set desired temperature **Set-back temp. heat**. Despite the heating function being activated, the burner is only active on demand. If the outside temperature rises above 4 °C, the controller switches the heating function off, but continues to monitor the outside temperature.
- **Set-back**: The heating function is switched on and the controller brings the room temperature to the set desired temperature **Set-back temp. heat**.

Day: The operating mode brings the zone to the desired temperature **Day temp. heating**, regardless of the time periods that you have set in the time programme.

Set-back: The operating mode brings the zone to the desired temperature **Set-back temp. heat**, regardless of the time periods that you have set in the time programme.

5.3.2 Setting the Cooling operating mode

Op. mode → Cooling

Menu → Basic settings → Operating mode → ZONE1 → Cooling

- You can use this function to specify how the system operates in cooling mode.

off: The zone is switched off in this operating mode.

Auto: The operating mode brings the zone to the desired temperature **Day temp. cooling** in the time periods that you have set in the time programme. Outside these time periods, the **Cooling** function is switched off.

Day: The operating mode brings the zone to the desired temperature set for **Day temp. cooling**, regardless of the time periods that you have set in the time programme.

5.3.3 Setting the Ventilation operating mode

The operating instructions for the ventilation unit explain how the ventilation unit works with the ventilation levels.

Op. mode → Ventilation

- You can use this function to define how the ventilation unit operates during ventilation.

Auto: The operating mode controls the air exchange via the set ventilation level **Max. vent. stage: Day** in the set time periods that you have defined in the time programme. The set ventilation level **Max. vent. stage: Night** is effective outside of the time periods.

If air-quality sensors are connected to the ventilation unit, the ventilation unit varies the ventilation levels:

- If the air quality is good, the ventilation unit works at a lower ventilation level than the one that is set.
- If the air quality is poor, the ventilation unit works at a higher ventilation level. However, the ventilation unit cannot exceed the **Max. vent. stage: Day** and **Max. vent. stage: Night** ventilation levels that are set.

Day: The operating mode constantly controls the exchange of air using the value that you set in the **Max. vent. stage: Day** ventilation level.

Set-back: The operating mode constantly controls the exchange of air using the value that you set in the **Max. vent. stage: Night** ventilation level.

5.3.4 Setting the operating mode for hot water generation

Op. mode → Domestic hot water

- You can use this function to specify how the system operates during hot water generation.

off: Hot water generation is switched off and the frost protection function is activated.

Auto: The operating mode brings the hot water generation to the desired temperature set for **Domestic hot water** in the time periods that you have set in the time programme.

Day: The operating mode brings the hot water generation to the desired temperature set for **Domestic hot water**, regardless of the time periods that you have set in the time programme.

5.3.5 Operating mode for circulation

The operating mode for circulation always corresponds to the operating mode for hot water. You cannot set a different operating mode.

5.4 Advanced functions

The advanced functions can be activated directly from any operating mode using the right-hand selection button **Op. mode**. If the heating installation is equipped with more than one zone, the activated advanced function only applies for the zone that was preset by the competent person.

If more than one zone is activated, you can set a separate advanced function for each zone using the left-hand selection button **Menu** → **Basic settings**.

The path details given at the start of each advanced function description indicate how you can access this advanced function in the menu structure.

5.4.1 Manual cooling

Op. mode → Manual cooling

- If the outside temperature is high, you can activate the **Manual cooling** advanced function. You define for how many days you want to activate the advanced function. If you activate **Manual cooling**, you cannot use the heating function at the same time. The **Manual cooling** function takes priority over the heating function.

The setting applies for as long as the advanced function is active. The advanced function is deactivated if the days that are set have elapsed or if the outside temperature falls below 4 °C.

If you want to set the temperature separately for more than one zone, you can set these temperatures using the **Desired temperatures** function.

5.4.2 1 day at home

Op. mode → 1 day at home

Menu → **Basic settings** → **Operating mode** → **ZONE1** → **1 day at home**

- If you spend a weekday at home, activate the **1 day at home** advanced function. The advanced function activates the **Automatic mode** mode for one day with the settings for **Sunday**, as set in the **Time programmes** function.

The advanced function is automatically deactivated after 24:00 hours or you can cancel the advanced function first. The heating installation will then return to the pre-set operating mode.

5.4.3 1 day away from home

Op. mode → 1 day away from home

Menu → **Basic settings** → **Operating mode** → **ZONE1** → **1 day away from home**

- If you are only away from home for one day, activate the **1 day away from home** advanced function. The advanced function brings the room temperature to the **Set-back** desired temperature.

Hot water generation and circulation are switched off and the frost protection is activated.

The advanced function is automatically deactivated after 24:00 hours or you can cancel the advanced function first. The heating installation will then return to the pre-set operating mode.

Ventilation is activated and works at the lowest ventilation level.

6 Troubleshooting

5.4.4 Ventilation boost

Op. mode → Ventilation boost

Menu → Basic settings → Operating mode → ZONE1 → Ventilation boost

- If you want to switch off the zone while the living areas are being ventilated, activate the **Ventilation boost** advanced function.

This advanced function switches the zone off for 30 minutes. The frost protection function is activated, and hot water generation and circulation remain active.

Ventilation is activated and works at the highest ventilation level.

The advanced function is automatically deactivated after 30 minutes or you can cancel the advanced function first. The heating installation will then return to the pre-set operating mode.

5.4.5 Party

Op. mode → Party function

Menu → Basic settings → Operating mode → ZONE1 → Party function

- If you want to switch on the zone, hot water generation, ventilation and circulation temporarily, activate the **Party function** advanced function.

The advanced function brings the room temperature to the set desired temperature **Day**, in accordance with the set time periods.

The advanced function is deactivated after six seconds or if you cancel it before the six seconds is up. The heating installation will then return to the pre-set mode.

5.4.6 Cylinder boost

Op. mode → Cylinder boost

- If you have switched off hot water generation or require hot water outside a time period, activate the **Cylinder boost** advanced function.

The advanced function heats the water in the domestic hot water cylinder until it reaches the set desired temperature **Domestic hot water**. The advanced function is active for one hour unless you cancel it sooner. The heating installation then returns to the preset operating mode.

5.4.7 System OFF (frost protection active)

Op. mode → System OFF active

- The heating function, hot water circuit and cooling are switched off. The frost protection function is activated.

The circulation is switched off.

Ventilation is activated and works at the lowest ventilation level.

5.5 Messages

5.5.1 Maintenance message

Overview of maintenance messages (→ Appendix C)

If maintenance is required, the control displays a maintenance message in the display.

To prevent the heating installation from breaking down and to prevent damage, you must pay attention to the maintenance message:

- If the operating instructions for the unit that is shown contain a maintenance instruction regarding the maintenance message, carry out the maintenance work in accordance with the maintenance instruction.
- If the operating instructions for the unit that is shown do not contain maintenance instructions for the maintenance message, or if you do not want to carry out the maintenance work yourself, inform a competent person.

5.5.2 Fault message

Overview of fault messages (→ Appendix B)

If a fault occurs in the heating installation, the controller displays a fault message in the display. The competent person must clear or rectify the fault in the heating installation, otherwise it could cause material damage or make the heating installation malfunction.

- Inform a competent person.

If you would like to see the basic display on the display again, press the left-hand selection button **Back**.

You can read the current fault messages under **Menu → Information → System status → Fault status**. As soon as a fault message occurs for the heating installation, the setting level displays the value **Fault list**. The right-hand selection button has been assigned the **Display** function.

6 Troubleshooting

Overview of the troubleshooting (→ Appendix B)

6.1 Temporarily setting limp home mode

If the fault message **Restricted operation/ comfort protection Inactive** appears on the display, the heat pump has failed and the controller enters limp home mode. The auxiliary heater now supplies the heating installation with heating energy. During installation, the competent person has restricted the temperature for limp home mode. You can feel that the hot water and heating are not becoming very hot.

While you wait for the competent person to come, you can use the rotary knob to implement the following settings:

Inactive: The controller works in limp home mode; heating and hot water at a moderately warm temperature

Heating: The auxiliary heater takes over heating mode; hot heating, cold hot water

DHW: The auxiliary heater takes over domestic hot water mode; hot water hot, heating cold

DHW+heat.: The auxiliary heater takes over heating and domestic hot water mode; heating and hot water hot

The auxiliary heater is not as efficient as the heat pump, meaning that using only the auxiliary heater to generate heat is expensive.

If you want to implement settings on the controller, click **Back** and the basic display appears on the display. After five minutes of no operation, the fault message appears again in the display.

7 Care

7.1 Caring for the product



Caution.

Risk of material damage caused by unsuitable cleaning agents.

- ▶ Do not use sprays, scouring agents, detergents, solvents or cleaning agents that contain chlorine.
-
- ▶ Clean the casing with a damp cloth and a little solvent-free soap.

8 Decommissioning

8.1 Decommissioning the product

If you want to replace or remove the product, you must decommission the heating installation.

- ▶ This work should be carried out by a competent person.

8.2 Recycling and disposal

- ▶ The competent person who installed your product is responsible for the disposal of the packaging.



If the product is labelled with this mark:

- ▶ In this case, do not dispose of the product with the household waste.
- ▶ Instead, hand in the product to a collection centre for waste electronic or electrical equipment.



If the product contains batteries that are labelled with this mark, these batteries may contain substances that are hazardous to human health and the environment.

- ▶ In this case, dispose of the batteries at a collection point for batteries.

9 Guarantee and customer service

9.1 Guarantee

Applicability: Belgium

Die N.V. VAILLANT gewährleistet eine Garantie von 2 Jahren auf alle Material- und Konstruktionsfehler ihrer Produkte ab dem Rechnungsdatum.

Die Garantie wird nur gewährt, wenn folgende Voraussetzungen erfüllt sind:

1. Das Gerät muss von einem qualifizierten Fachmann installiert worden sein. Dieser ist dafür verantwortlich, dass alle geltenden Normen und Richtlinien bei der Installation beachtet wurden.
2. Während der Garantiezeit ist nur der Vaillant Werkskundendienst autorisiert, Reparaturen oder Veränderungen am Gerät vorzunehmen. Die Werksgarantie erlischt, wenn in das Gerät Teile eingebaut werden, die nicht von Vaillant zugelassen sind.
3. Damit die Garantie wirksam werden kann, muss die Garantiekarte vollständig und ordnungsgemäß ausgefüllt, unterschrieben und ausreichend frankiert spätestens fünfzehn Tage nach der Installation an uns zurückgeschickt werden.

Während der Garantiezeit an dem Gerät festgestellte Material- oder Fabrikationsfehler werden von unserem Werkskundendienst kostenlos behoben. Für Fehler, die nicht auf den genannten Ursachen beruhen, z. B. Fehler aufgrund unsachgemäßer Installation oder vorschriftswidriger Behandlung, bei Verstoß gegen die geltenden Normen und Richtlinien zur Installation, zum Aufstellraum oder zur Belüftung, bei Überlastung, Frosteinwirkung oder normalem Verschleiß oder bei Gewalteinwirkung übernehmen wir keine Haftung. Wenn eine Rechnung gemäß den allgemeinen Bedingungen des Werkvertrags ausgestellt wird, wird diese ohne vorherige schriftliche Vereinbarung mit Dritten (z. B. Eigentümer, Vermieter, Verwalter etc.) an den Auftraggeber oder/und den Benutzer der Anlage gerichtet; dieser übernimmt die Zahlungsverpflichtung. Der Rechnungsbetrag ist dem Techniker des Werkskundendienstes, der die Leistung erbracht hat, zu erstatten. Die Reparatur oder der Austausch von Teilen während der Garantie verlängert die Garantiezeit nicht. Nicht umfasst von der Werksgarantie sind Ansprüche, die über die kostenlose Fehlerbeseitigung hinausgehen, wie z. B. Ansprüche auf Schadenersatz. Gerichtsstand ist der Sitz unseres Unternehmens. Um alle Funktionen des Vaillant Geräts auf Dauer sicherzustellen und um den zugelassenen Serienzustand nicht zu verändern, dürfen bei Wartungs- und Instandhaltungsarbeiten nur Original Vaillant Ersatzteile verwendet werden!

Applicability: Switzerland

Werksgarantie gewähren wir nur bei Installation durch einen anerkannten Fachhandwerksbetrieb. Dem Eigentümer des Geräts räumen wir eine Werksgarantie entsprechend den landesspezifischen Vaillant Geschäftsbedingungen und den entsprechend abgeschlossenen Wartungsverträgen ein. Garantiewerke werden grundsätzlich nur von unserem Werkskundendienst ausgeführt.

10 Technical data

Applicability: Germany

OR Austria

Herstellergarantie gewähren wir nur bei Installation durch einen anerkannten Fachhandwerksbetrieb.

Dem Eigentümer des Geräts räumen wir diese Herstellergarantie entsprechend den Vaillant Garantiebedingungen ein. Garantiearbeiten werden grundsätzlich nur von unserem Kundendienst ausgeführt. Wir können Ihnen daher etwaige Kosten, die Ihnen bei der Durchführung von Arbeiten an dem Gerät während der Garantiezeit entstehen, nur dann erstatten, falls wir Ihnen einen entsprechenden Auftrag erteilt haben und es sich um einen Garantiefall handelt.

9.2 Customer service

Applicability: Austria

Vaillant Group Austria GmbH
Clemens-Holzmeister-Straße 6
1100 Wien
Österreich

E-Mail Kundendienst: termin@vaillant.at

Internet Kundendienst: <http://www.vaillant.at/werkskunden-dienst/>

Telefon: 05 7050-2100 (zum Regionaltarif österreichweit, bei Anrufen aus dem Mobilfunknetz ggf. abweichende Tarife - nähere Information erhalten Sie bei Ihrem Mobilnetzbetreiber)

Der flächendeckende Kundendienst für ganz Österreich ist täglich von 0 bis 24 Uhr erreichbar. Vaillant Kundendienst-techniker sind 365 Tage für Sie unterwegs, sonn- und feiertags, österreichweit.

Applicability: Belgium

N.V. Vaillant S.A.
Golden Hopestraat 15
B-1620 Drogenbos
Belgien, Belgique, België

Kundendienst / Service après-vente / Klantendienst:
2 3349352

Applicability: Switzerland

Vaillant GmbH (Schweiz, Suisse, Svizzera)
Riedstrasse 12
CH-8953 Dietikon
Schweiz, Svizzera, Suisse

Kundendienst: 044 74429-29

Techn. Vertriebssupport: 044 74429-19

Applicability: Germany

Auftragsannahme Vaillant Kundendienst: 021 91 5767901

10 Technical data

10.1 Product data in accordance with EU Ordinance no. 811/2013, 812/2013

On units with integrated weather compensators, including a room thermostat function that can be activated, the seasonal room-heating efficiency always includes the correction factor for controller technology class VI. The seasonal room-heating efficiency may deviate if this function is deactivated.

Temperature control class	VI
Contribution to the seasonal room-heating energy efficiency η_s	4.0 %

Appendix

A Overview of the operating and display functions


Note

The functions and operating modes listed are not available for all system configurations.

A.1 Operating modes

Operating mode	Setting	Default setting
Operating mode		
Heating	off, Auto, Day, Set-back	Auto
Cooling	off, Auto, Day	Auto
Ventilation	Auto, Day, Set-back	Auto
Domestic hot water	off, Auto, Day	Auto
Advanced functions		
Manual cooling	active	–
1 day at home	active	–
1 day away from home	active	–
Ventilation boost	active	–
Party function	active	–
Cylinder boost	active	–
System OFF active	active	–

A.2 End user level

The description of the functions for **ZONE1** also applies for all available zones.

Setting level	Values		Unit	Increment, select	Default setting
	Min.	Max.			
Information → System status →					
System ----					
Fault status	Current value			No fault, Fault list	
Green IQ				Off, On	On
Water pressure	Current value		bar		
System status	Current value			Standby, Heat. mode, Cooling, DHW	
Burner	Current value			On, off	
Collector temp.	Current value		°C		
Solar yield	Current value		kWh		
Reset solar yield				Yes, No	No
Environmental yield	Current value		kWh		
Reset env.yield				Yes, No	No
Curr. room air hum.	Current value		%		
Current dew point	Current value		°C		
triVAI	Current value				
ZONE1 ----					
Day temp. heating	5	30	°C	0.5	20
Day temp. cooling	15	30	°C	0.5	24
Set-back temp. heat.	5	30	°C	0.5	15
Room temperature	Current value		°C		
Ventilation ----					
Air quality sensor 1	Current value		ppm		

Appendix

Setting level	Values		Unit	Increment, select	Default setting
	Min.	Max.			
Air quality sensor 2	Current value		ppm		
Exhaust air humidity	Current value		%rel		
Information → Consumption → Current month →					
Heating ----					
Electricity	Total value for the current month		kWh		
Fuel	Total value for the current month		kWh		
Hot water ----					
Electricity	Total value for the current month		kWh		
Fuel	Total value for the current month		kWh		
Information → Consumption → Last month →					
Heating ----					
Electricity	Total value for the last month		kWh		
Fuel	Total value for the last month		kWh		
Hot water ----					
Electricity	Total value since start-up		kWh		
Fuel	Total value since start-up		kWh		
Information → Consumption → History →					
Heating ----					
Electricity	Total value since start-up		kWh		
Fuel	Total value since start-up		kWh		
Hot water ----					
Electricity	Total value since start-up		kWh		
Fuel	Total value since start-up		kWh		
Information → Solar yield →					
Bar chart	Previous year to current year comparison		kWh/month		
Information → Environmental yield →					
Bar chart	Previous year to current year comparison		kWh/month		
Information → Electrical consumption →					
Bar chart	Previous year to current year comparison		kWh/month		
Information → Fuel consumption →					
Bar chart	Previous year to current year comparison		kWh/month		

Setting level	Values		Unit	Increment, select	Default setting		
	Min.	Max.					
Information → Heat recovery →							
Bar chart	Previous year to current year comparison		kWh/month				
Information → Contact details →							
Installer Phone number	Current values						
Information → Serial number							
Product number	Permanent value						
Desired temperatures → ZONE1 →							
Day temp. heating	5	30	°C	0.5	20		
Day temp. cooling	15	30	°C	0.5	24		
Set-back temp. heat.	5	30	°C	0.5	15		
Desired temperatures → Domestic hot water →							
Domestic hot water	35	70	°C	1	60		
Ventilation stage →							
Max. vent. stage: Day	Depending on the ventilation unit			1	Depending on the ventilation unit		
Max. vent. stage: Night	Depending on the ventilation unit			1	Depending on the ventilation unit		
Time programmes → ZONE1 (Heating) →							
Time programmes → ZONE1: Cooling →							
Time programmes → Circulation →							
Time programmes → Ventilation →							
Individual days and blocks				Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday and Monday - Friday, Saturday - Sunday, Monday - Sunday	Mo - Fr: 06:00-22:00 Sa: 07:30-23:30 Su: 07:30-22:00		
Period 1: Start – End	00:00	24:00	h:min	00:10			
Period 2: Start – End							
Period 3: Start – End							
Time programmes → Domestic hot water →							
Individual days and blocks				Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday and Monday - Friday, Saturday - Sunday, Monday - Sunday	Mo to Fr: 05:30-22:00 Sa: 07:00-23:30 Su: 07:00-22:00		
Period 1: Start – End	00:00	24:00	h:min	00:10			
Period 2: Start – End							
Period 3: Start – End							
Time programmes → High tariff →							
Individual days and blocks				Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday and Monday - Friday, Saturday - Sunday, Monday - Sunday	Mo - Su: 11:00-13:00		

Appendix

Setting level	Values		Unit	Increment, select	Default setting
	Min.	Max.			
Period 1: Start – End Period 2: Start – End Period 3: Start – End	00:00	24:00	h:min	00:10	Mo - Su: 11:00-13:00
Days away from home scheduling →					
Start	01.01.01	31.12.99	dd.mm.yy	Day.Month.Year	01.01.14
End	01.01.01	31.12.99	dd.mm.yy	Day.Month.Year	01.01.14
Temperature	5	30	°C	1	15
Days at home scheduling →					
Start	01.01.01	31.12.99	dd.mm.yy	Day.Month.Year	01.01.14
End	01.01.01	31.12.99	dd.mm.yy	Day.Month.Year	01.01.14
Basic settings → Language →					
				Selectable language	English
Basic settings → Date/time →					
Date	01.01.01	31.12.99	dd.mm.yy	Day.Month.Year	01.01.15
Time	00:00	23:59	h:min	00:10	08:00
Daylight saving time				Manual, Auto	Manual
Basic settings → Display →					
Display contrast	1	15		1	9
Button lock				off, On	off
Preferred display				Heating, Cooling, Vent.	Heating
Basic settings → Costs →					
Tariff for aux. heater	1	999		1	12
Low-tariff elec. rate	1	999		1	16
High-tariff elec. rate	1	999		1	20
Basic settings → Offset →					
Room temperature	-3.0	3.0	K	0.5	0.0
Outside temperature	-3.0	3.0	K	0.5	0.0
Basic settings → Operating mode → ZONE1 →					
Heating				off, Auto, Day, Set-back	Auto
Cooling				off, Auto, Day	Auto
1 day at home				Active, Not active	Not active
1 day away from home				Active, Not active	Not active
Ventilation boost				Active, Not active	Not active
Party function				Active, Not active	Not active
Basic settings → Enter zone name →					
ZONE1	1	10	Letter/number	A to Z, 0 to 9, space	ZONE1
Basic settings → Ventilation →					
Heat recovery				Auto, Activate, off	Auto

Setting level	Values		Unit	Increment, select	Default setting
	Min.	Max.			
Basic settings → Max. room air humidity →					
Max. room air hum.	30	70	%rel	1	40
Basic settings → Default setting →					
Time programmes				Yes, No	No
Everything				Yes, No	No
Installer level →					
Enter code	000	999		1	000

B Troubleshooting

Symptom	Possible cause	Measure
Display remains dark	Software error	- Switch off the mains switch on all heat generators for approx. 1 minute and then switch them on again. - If the fault persists, inform the competent person.
No changes in the display when the rotary knob is turned	Software error	- Switch off the mains switch on all heat generators for approx. 1 minute and then switch them on again. - If the fault persists, inform the competent person.
No changes in the display when the selection buttons are pressed	Software error	- Switch off the mains switch on all heat generators for approx. 1 minute and then switch them on again. - If the fault persists, inform the competent person.
Display view: Button lock active To unlock, press OK for 3 seconds , it is not possible to change the settings or values	Button lock is active	- If you would like to change any of the values, follow the instructions on the display. - Also read through the Button lock Activate (→ Page 15) function.
Display view: Restricted operation/ comfort protection , insufficient heating up of the heating and the domestic hot water	Heat pump does not work	- Inform the competent person. - Select the setting for limp home mode until the competent person arrives. - Read the "Temporarily setting limp home mode (→ Page 18)" function for more details.
Display view: Fault F. Fault: Heat generator 1 , the specific fault code (e.g. F.33) and the specific heat generator appear behind F. in the display	Heat generator faults	- Press the Reset selection button. Heat generator fault clearance? appears in the display. - Press the OK selection button. Faults are cleared for the heat generator briefly appears in the display. - If the fault persists, inform the competent person.

C Maintenance messages

The maintenance message **Service heat pump 1** is an example of a maintenance message that may appear for heat pumps 1 to 7.

The maintenance message **Service heat generator 1** is an example of a maintenance message that may appear for heat generators 1 to 7.

#	Message	Description	Maintenance work	Interval	
1	Service heat pump 1	The heat pump requires maintenance work.	Refer to the operating instructions of the relevant heat pump for information on the maintenance work required	See the operating instructions for the heat pump	
2	Service heat generator 1	The heat generator requires maintenance work.	Refer to the operating instructions of the relevant heat generator for information on the maintenance work required	See the operating instructions for the heat generator	

Appendix

#	Message	Description	Maintenance work	Interval	
3	Service ventilation unit	The ventilation unit requires maintenance work.	Refer to the operating instructions of the ventilation unit for information on the maintenance work required	See the operating instructions for the ventilation unit	
4	Low water pressure	The water pressure in the heating system is too low.	Refer to the operating instructions for the relevant heat generator for information on filling with water	See the operating instructions for the heat generator	
5	Service date Next service on	The competent person has entered a date on which maintenance is due for the heating system.	Inform the competent person if maintenance work is required	Date entered in the control	

Index

1		M	
1 day at home	17	Main function	5
1 day away from home	17	Maintenance message	18
A		Manual cooling	17
Activating Button lock	15	N	
Activating Heat recovery	16	Nomenclature	5
Advanced functions	17	O	
1 day at home	17	Operating concept	8
1 day away from home	17	Operating level	6
Cylinder boost	18	Operating mode	16
Manual cooling	17	Operating mode in the basic display	7
Party	18	Outside temperature, setting the offset	15
System OFF	18	P	
Ventilation boost	18	Party	18
Article number	6	Preventing a malfunction	6
B		R	
Basic display	7	Reading the article number	6, 12
C		Reading the electrical consumption	12
Caring for the product	19	Reading the environment yield	12
CE label	6	Reading the fuel consumption	12
Changing the display contrast, example	9	Reading the heat recovery yield	12
Circulation	6	Reading the serial number	6, 12
Circulation time programme	14	Reading the solar statistics	12
Competent person, contact details	12	Reading the system status	10
Contact details	12	Restoring the language	14
Contact details, competent person	12	Room temperature, setting the offset	15
Cooling	5	S	
Cylinder boost	18	Selection level	7
D		Serial number	6
Days at home scheduling	14	Set values after a voltage loss	13
Days away from home scheduling	14	Setting costs	15
Desired temperature		Setting daylight saving time	15
Hot water generation	12	Setting level	7
Setting	12	Setting the air humidity	16
Zone	12	Setting the Cooling operating mode	16
Display level	6	Setting the Cooling time programme	14
Display, solar statistics	12	Setting the date	15
Documents	5	Setting the date, time	14
E		Setting the display	15
Electrical consumption	12	Setting the display contrast	15
Entering a zone name	16	Setting the Heating operating mode	16
Environmental yield	12	Setting the Heating time programme	13
Example, changing the display contrast	9	Setting the High tariff time programme	14
F		Setting the high-tariff electricity rate	15
Fault message	18	Setting the hot water generation time programme	14
Frost protection function	6	Setting the low-tariff electricity rate	15
Fuel consumption	12	Setting the offset outside temperature	15
H		Setting the offset room temperature	15
Heat recovery yield	12	Setting the operating mode for hot water generation	17
Heating	5	Setting the preferred display	15
Hot water generation	6, 12	Setting the room air humidity	16
Hybrid manager	6	Setting the standard time	15
Hybrid manager heating installation	6	Setting the tariff for the auxiliary boiler	15
I		Setting the time	15
Information in the basic display	7	Setting the ventilation level	12
Installer level	16	Setting the Ventilation operating mode	17
Intended use	3	Setting the Ventilation time programme	14
L		Setting time periods for days and blocks	13
Language selection	14	Soft key function	7
		System OFF	18
		System status	10

Index

T

Time period, deviating times in the block	13
Time programme	
quick setting	13
Setting	13
Time programme after switching off the voltage	13

V

Ventilation	5
Ventilation boost	18
Ventilation level	12

Z

Zone	6, 12
Zone in the basic display	7



0020255032_00

0020255032_00 ■ 30.06.2017

Supplier

Vaillant Deutschland GmbH & Co.KG

Berghauser Str. 40 ■ D-42859 Remscheid
Telefon 021 91 18-0 ■ Telefax 021 91 18-2810
Auftragsannahme Vaillant Kundendienst 021 91 5767901
info@vaillant.de ■ www.vaillant.de

Vaillant Group Austria GmbH

Clemens-Holzmeister-Straße 6 ■ 1100 Wien
Telefon 05 7050 ■ Telefax 05 7050-1199
Telefon 05 7050-2100 (zum Regionaltarif österreichweit, bei Anrufen aus dem Mobilfunknetz ggf. abweichende Tarife - nähere Information erhalten Sie bei Ihrem Mobilnetzbetreiber)
info@vaillant.at ■ termin@vaillant.at
www.vaillant.at ■ www.vaillant.at/werkskundendienst/

Vaillant GmbH (Schweiz, Suisse, Svizzera)

Riedstrasse 12 ■ CH-8953 Dietikon
Tel. 044 74429-29 ■ Fax 044 74429-28
Kundendienst 044 74429-29 ■ Techn. Vertriebssupport 044 74429-19
info@vaillant.ch ■ www.vaillant.ch

N.V. Vaillant S.A.

Golden Hopestraat 15 ■ B-1620 Drogenbos
Tel. 2 3349300 ■ Fax 2 3349319
Kundendienst / Service après-vente / Klantendienst 2 3349352
info@vaillant.be ■ www.vaillant.be

© These instructions, or parts thereof, are protected by copyright and may be reproduced or distributed only with the manufacturer's written consent.

We reserve the right to make technical changes.