For the operator

# **Operating instructions**



# multiMATIC

VRC 700f/4

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

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### 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

A

### 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.

The radio control, the radio receiver unit and the wireless outdoor temperature sensor must be installed in a location that receives sufficiently high signal. The radio control is not intended to be portable.

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 Risk of injury caused by batteries

If the batteries are recharged contrary to instructions, there is a risk of serious personal injury.

• Do not recharge the batteries.

### 1.3.3 Risk of material damage

 Do not short-circuit the connection contacts in the product's battery compartment.

# 1.3.4 Risk of material damage caused by acid

- Remove any dead batteries from the product and dispose of these properly.
- Remove the batteries if you intend to store the product and not use it for an extended period.

# 1.3.5 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.

### **1** Safety

### Conditions: Ventilation unit is connected

- Do not disconnect the ventilation unit from the power mains.
- 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.

X

f 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.

#### 2 Notes on the documentation

#### Observing other applicable documents 2.1

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

#### Storing documents 2.2

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

#### 2.3 Validity of the instructions

#### These instructions apply only to:

#### VRC 700f/4 - article number

Austria	0020218359
Belgium	0020231557
Germany	0020218359
Switzerland	0020231557

#### 2.4 Nomenclature

The following terms are used for simplification:

- Control: This refers to the VRC 700f/4 radio control.
- Remote control: This refers to the **VR 91f** remote control. \_
- Outdoor temperature sensor: This refers to the wireless \_ outdoor temperature sensor.

#### 2.5 **Function availability**

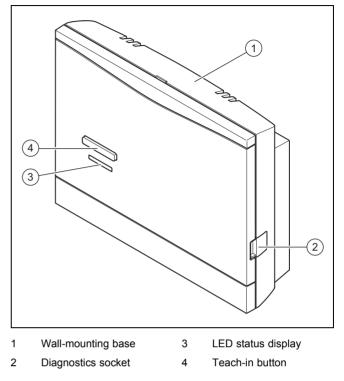
Note

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

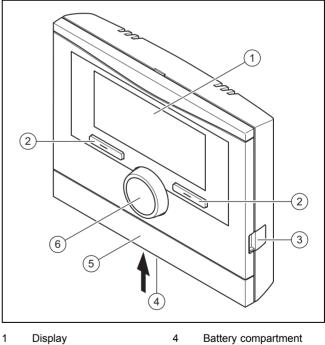
The controller only shows the functions that are available in the system configuration you have installed.

#### **Product description** 3

- Design of the product 3.1
- Radio receiver unit 3.1.1



#### 3.1.2 Radio controller

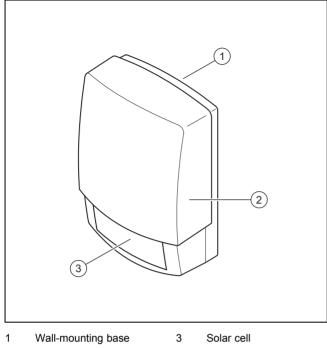


6

- 2 Selection button 3
- 5 Wall-mounting base cover
- **Diagnostics socket**
- Rotary knob

### **3 Product description**

#### 3.1.3 Radio outside temperature sensor



2 Radio outside temperat-

#### 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 via the radio receiver unit. The control radio-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.

#### 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

Note

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.



To ensure that the heat pump and the boiler can work effectively and in synch with one another, the tariffs ( $\rightarrow$  Page 16) 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 data plate is located on the rear of the control underneath the unit mounting bracket.

The identification plate contains the following information:

Information on the identific- ation plate	Meaning
Serial number	for identification; 7th to 16th digits = product article number
multiMATIC	Product designation
V	Operating voltage
mA	Current consumption
	Read the instructions
LR06	Battery type designation
Т60	Max. permitted environmental temperature: 0 to 60 °C

#### 3.8 Serial number

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

#### 3.9 CE marking

# (6

The CE mark shows that the products comply with the basic requirements of the applicable guidelines as stated on the data plate.

The manufacturer hereby declares that the type of radio equipment that is described in these instructions complies with Directive 2014/53/EU. The complete text of the EU 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.

End user level ( $\rightarrow$  Page 23)

#### 4.1.2 Menu structure design

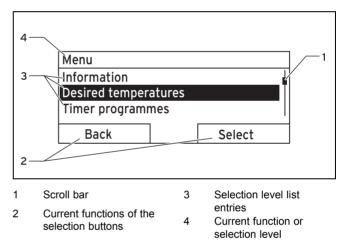
The menu structure consists of several selection levels and a setting level.

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**.

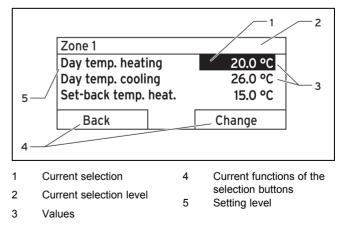
The lowest level is always the setting level.

#### 4.1.3 Selection level



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



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

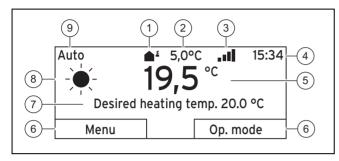
### **4** Operation

The control must retrieve the values from the radio receiver unit first, which can take up to 2 seconds. During that time. the display shows dashes (--) instead of figures.

#### 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



- Symbol for the outdoor Function of the selec-1 6 temperature sensor tion buttons 2
  - 7 Desired setting
- 3 Reception strength

Outside temperature

- 8 Symbol for Auto operatina mode
- 4 Time

5

9 Mode for the current operating mode

The basic display appears:

Room temperature

- 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.
- If you press one of the selection buttons or turn the rotary knob when the display is switched off.

The display switches off if you do not operate the control for more than 10 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:
	Off	(	<ul> <li>The control maintains the temperature at the desired level.</li> </ul>
Day			Empty line appears:
Set-back			request any heating energy.
off			Empty line

#### 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.

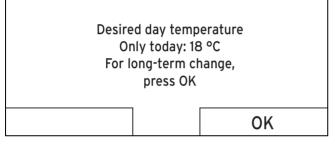
If you do not operate the controller during a period of more than 5 minutes, the basic display appears again.

# 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



Mode	Time periods	Effect
Auto	On	Switch to another display view with the request:
		<ul> <li>Permanent change to the Day temp. heating</li> </ul>
		<ul> <li>Change to the Day temp. heating for six hours</li> </ul>
	Off	Direct change to the <b>Set-back temp.</b> heat. for six hours
Day		Switch to another display view with the request:
		<ul> <li>Permanent change to the Day temp. heating</li> </ul>
		<ul> <li>Change to the <b>Day temp. heating</b> for six hours</li> </ul>
Set-back		Direct change to the <b>Set-back temp</b> . <b>heat.</b> 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 <b>Day</b> 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. stge: Night
Day		Direct permanent change to the Max. vent. stage: Day
Set-back		Direct permanent change to the Max. vent. stge: 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 <b>Day</b> temp. cooling
	Off	None

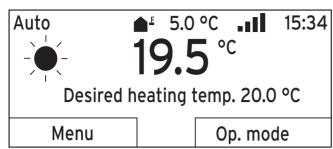
# 4.3.1.5 Using the rotary knob to make settings with no effect

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

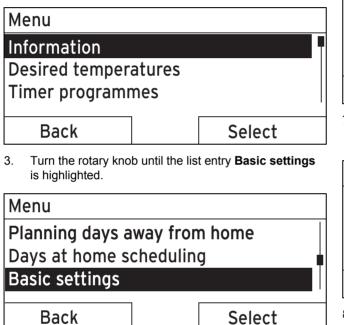
- System OFF active
- Cylinder boost
- Party function
- 1 day at home
- Days at home scheduling
- 1 day away from home
- Days away from home scheduling
- Ventilation boost
- Screed-drying function

## 5 Operating and display functions

### 4.3.2 Example, changing the display contrast



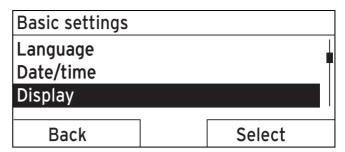
- 1. If the display does not show the basic display, press the left-hand selection button **Back** until the basic display appears on the display.
- 2. Press the left-hand selection button Menu.
  - ⊲ The controller switches to selection level 1.



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

Basic settings			
Language			
Date/time			
Display			
	1		
Back		Select	

5. Turn the rotary knob until the list entry **Display** is high-lighted.



- 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	9
Back	Change
7. Press the right-hand selection I	outton Change.

Display	
Display contrast Button lock	9
Cancel	OK
8. Turn the rotary knob to chang	e the value.

Display	
Display contrast Button lock	12
Cancel	ОК

- 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 ( $\rightarrow$  Page 23)

End user level (→ Page 23)

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

#### $Menu \rightarrow Information \rightarrow System \ status \rightarrow Fault \ status$

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 $\rightarrow$ Information $\rightarrow$ System status $\rightarrow$ 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 $\rightarrow$ Information $\rightarrow$ System status $\rightarrow$ Water pressure

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

#### Menu $\rightarrow$ Information $\rightarrow$ System status $\rightarrow$ 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.

#### $Menu \rightarrow Information \rightarrow System \ status \rightarrow Collector \ temp.$

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

#### $Menu \rightarrow Information \rightarrow System \ status \rightarrow Solar \ yield$

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 12).

#### Menu $\rightarrow$ Information $\rightarrow$ System status $\rightarrow$ 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.

# $$\label{eq:menu} \begin{split} \text{Menu} \rightarrow \text{Information} \rightarrow \text{System status} \rightarrow \text{Environmental} \\ yield \end{split}$$

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

Note the contents of the section Display for energy consumption and energy yield ( $\rightarrow$  Page 12).

# Menu $\rightarrow$ Information $\rightarrow$ System status $\rightarrow$ 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.

# $$\label{eq:menu} \begin{split} \textbf{Menu} \rightarrow \textbf{Information} \rightarrow \textbf{System status} \rightarrow \textbf{Current dew} \\ \textbf{point} \end{split}$$

 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.

#### Menu → Information → System status → Battery status

- You can use this function to read the battery's state of charge.
- **OK**: The battery has sufficient charge.
- Critical: The battery is almost flat.

#### Menu → Information → System status → Signal strength

- You can use this function to read how strong the radio link between the radio receiver unit and the control is.
- 4: The radio link is within the acceptable range. If the reception strength is < 4, the radio link is not stable.</li>
- 10: The radio link is highly stable.

#### 5.1.1.2 ZONE1

# Menu $\rightarrow$ Information $\rightarrow$ System status $\rightarrow$ 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.

# $\textbf{Menu} \rightarrow \textbf{Information} \rightarrow \textbf{System status} \rightarrow \textbf{Day temp. cooling}$

 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  $\rightarrow$  Information  $\rightarrow$  System status  $\rightarrow$  Set-back temp. heat.

### 5 Operating and display functions

 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 $\rightarrow$ Information $\rightarrow$ System status $\rightarrow$ 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  $\rightarrow$  Information  $\rightarrow$  System status  $\rightarrow$  Air quality sensor 1/2

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

# Menu $\rightarrow$ Information $\rightarrow$ System status $\rightarrow$ 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 house-hold 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 $\rightarrow$ Information $\rightarrow$ Consumption $\rightarrow$ Current month $\rightarrow$ Heating $\rightarrow$ Electricity

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

# $\begin{array}{l} Menu \rightarrow Information \rightarrow Consumption \rightarrow Current \ month \rightarrow \\ Heating \rightarrow Fuel \end{array}$

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

# Menu $\rightarrow$ Information $\rightarrow$ Consumption $\rightarrow$ Current month $\rightarrow$ Hot water $\rightarrow$ Electricity

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

# Menu $\rightarrow$ Information $\rightarrow$ Consumption $\rightarrow$ Current month $\rightarrow$ Hot water $\rightarrow$ Fuel

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

# Menu $\rightarrow$ Information $\rightarrow$ Consumption $\rightarrow$ Last month $\rightarrow$ Heating $\rightarrow$ Electricity

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

# Menu $\rightarrow$ Information $\rightarrow$ Consumption $\rightarrow$ Last month $\rightarrow$ Heating $\rightarrow$ Fuel

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

# Menu $\rightarrow$ Information $\rightarrow$ Consumption $\rightarrow$ Last month $\rightarrow$ Hot water $\rightarrow$ Electricity

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

#### 

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

# Menu $\rightarrow$ Information $\rightarrow$ Consumption $\rightarrow$ History $\rightarrow$ Heating $\rightarrow$ Electricity

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

# Menu $\rightarrow$ Information $\rightarrow$ Consumption $\rightarrow$ History $\rightarrow$ Heating $\rightarrow$ Fuel

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

# Menu $\rightarrow$ Information $\rightarrow$ Consumption $\rightarrow$ History $\rightarrow$ Hot water $\rightarrow$ Electricity

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

# Menu $\rightarrow$ Information $\rightarrow$ Consumption $\rightarrow$ History $\rightarrow$ Hot water $\rightarrow$ Fuel

 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

#### $\textbf{Menu} \rightarrow \textbf{Information} \rightarrow \textbf{Solar yield}$

 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

#### $Menu \rightarrow Information \rightarrow Environmental \ yield$

 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

#### $\textbf{Menu} \rightarrow \textbf{Information} \rightarrow \textbf{Electrical consumption}$

 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

#### $Menu \rightarrow Information \rightarrow Fuel \ consumption$

 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 $\rightarrow$ Information $\rightarrow$ 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

#### $Menu \rightarrow Information \rightarrow Contact \ details$

 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 $\rightarrow$ Information $\rightarrow$ 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

Warning.



### Risk of being scalded by hot water.

To protect against Legionella, the hot water can be heated up to above 60  $^{\circ}$ C at predefined times.

Have a competent person inform you about the measures that should be taken to protect against Legionella in your system.

#### Menu → Desired temperatures → Domestic hot water

You can set the required **Domestic hot water** temperature for the 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 auxiliary heater 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. stge: 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** Operating and display functions

#### 5.2.3 Setting time programmes

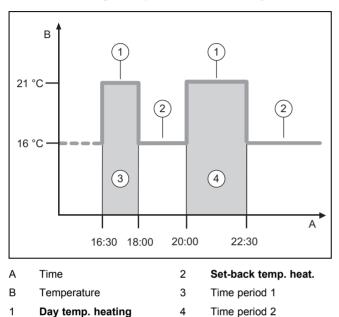
Note

# 5.2.3.1 Time programme settings after a voltage loss



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



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 !!.

	ual dates va cted time pr Mo-Su.	•
Back		ОК

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 $\rightarrow$ Time programmes $\rightarrow$ ZONE1

- The time programmes are only effective in Automatic mode (→ Page 17). 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 **Setback temp. heat.**. If the competent person has left the default setting **Eco**, the control switches off the heating function.

Setting the **Heating** operating mode. ( $\rightarrow$  Page 17)

#### 5.2.3.7 Setting the Cooling time programme

#### $\textbf{Menu} \rightarrow \textbf{Time programmes} \rightarrow \textbf{ZONE1}: \textbf{Cooling}$

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 $\rightarrow$ Time programmes $\rightarrow$ 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 For the noise reduction periods

#### Menu → Time programmes → Noise reduction operation

 You can use this function to reduce the fan speed and therefore lower the noise level of the fan. The lower speed reduces the heating output.

The following effects are possible:

- The dwelling no longer heats up.
- The water in the domestic hot water cylinder no longer heats up.
- The auxiliary heater takes on the task of supplying energy to the heating installation.

#### 5.2.3.12 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 ( $\rightarrow$  Page 16)

#### 5.2.4 Days away from home scheduling

#### Menu $\rightarrow$ 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 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 preset 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

#### $Menu \rightarrow Basic \ settings \rightarrow Date/time \rightarrow Date$

 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 $\rightarrow$ Basic settings $\rightarrow$ Date/time $\rightarrow$ 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 changeover to daylight saving time

# Menu $\rightarrow$ Basic settings $\rightarrow$ Date/time $\rightarrow$ 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

#### $Menu \rightarrow Basic \ settings \rightarrow Display \rightarrow Button \ lock$

 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 $\rightarrow$ Basic settings $\rightarrow$ Display $\rightarrow$ 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 m<sup>3</sup>, 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** ( $\rightarrow$  Page 17) and **Low-tariff elec. rate** ( $\rightarrow$  Page 17) functions.

Round the amount up or down to one decimal place.

Example:

	Costs	Setting/factor
Tariff for aux. heater	11.3 currency units/kWh	113
(Gas, oil, electricity)		
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 $\rightarrow$ Basic settings $\rightarrow$ Costs $\rightarrow$ 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

#### $\textbf{Menu} \rightarrow \textbf{Basic settings} \rightarrow \textbf{Costs} \rightarrow \textbf{Low-tariff elec. rate}$

 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

#### $\textbf{Menu} \rightarrow \textbf{Basic settings} \rightarrow \textbf{Costs} \rightarrow \textbf{High-tariff elec. rate}$

 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

#### $Menu \rightarrow Basic \ settings \rightarrow Offset \rightarrow Room \ temperature$

 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

#### $Menu \rightarrow Basic \ settings \rightarrow Offset \rightarrow Outside \ temperature$

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

#### 5.2.15 Changing a zone name

#### $Menu \rightarrow Basic \ settings \rightarrow Enter \ zone \ name$

 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

#### $Menu \rightarrow Basic \ settings \rightarrow Ventilation \rightarrow Heat \ recovery$

 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 $\rightarrow$ Basic settings $\rightarrow$ 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  $\rightarrow$  Basic settings  $\rightarrow$  Default setting  $\rightarrow$  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 $\rightarrow$ Basic settings $\rightarrow$ Default setting $\rightarrow$ 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 $\rightarrow$ Basic settings $\rightarrow$ Operating mode $\rightarrow$ ZONE1 $\rightarrow$ 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.

 EcoThe 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

### **5** Operating and display functions

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**  $\rightarrow$  **Cooling** 

Menu  $\rightarrow$  Basic settings  $\rightarrow$  Operating mode  $\rightarrow$  ZONE1  $\rightarrow$  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.

#### $\textbf{Op. mode} \rightarrow \textbf{Ventilation}$

 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. stge**: **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. stge: 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. stge: Night** ventilation level.

# 5.3.4 Setting the operating mode for hot water generation

#### Op. mode $\rightarrow$ 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  $\rightarrow$  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 $\rightarrow$ 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  $^{\circ}$ 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  $\rightarrow$  1 day at home

# Menu $\rightarrow$ Basic settings $\rightarrow$ Operating mode $\rightarrow$ ZONE1 $\rightarrow$ 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 $\rightarrow$ 1 day away from home

# Menu $\rightarrow$ Basic settings $\rightarrow$ Operating mode $\rightarrow$ ZONE1 $\rightarrow$ 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 Setback 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.

#### 5.4.4 Ventilation boost

#### Op. mode → Ventilation boost

Menu  $\rightarrow$  Basic settings  $\rightarrow$  Operating mode  $\rightarrow$  ZONE1  $\rightarrow$  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 $\rightarrow$ Basic settings $\rightarrow$ Operating mode $\rightarrow$ ZONE1 $\rightarrow$ 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 $\rightarrow$ 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 Service message

Overview of maintenance messages (→ Appendix C)

If a service is required, the controller displays a service message in the display.

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

- If the operating instructions for the unit that is displayed contain maintenance instructions for the service message, carry out maintenance work according to the maintenance instructions.
- If the operating instructions for the unit displayed do not contain maintenance instructions for the service 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**  $\rightarrow$  **Information**  $\rightarrow$  **System status**  $\rightarrow$  **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 fault messages (→ 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.

#### 6.2 Cleaning the outside temperature sensor

#### Caution.

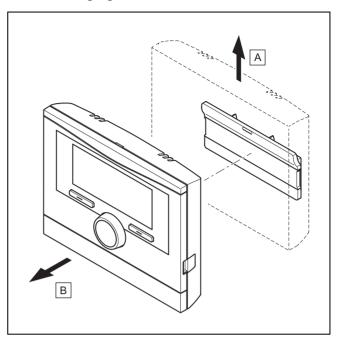
Risk of material damage caused by unsuitable cleaning agents.

- Do not use sprays, scouring agents, detergents, solvents or cleaning agents that contain chlorine.
- Clean the solar cell with a damp cloth and a little solventfree soap.

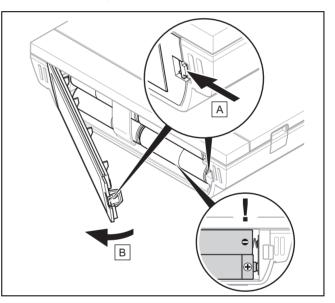
### Note

After you have cleaned the solar cell, there is a delay before the fault message disappears because the battery has to be recharged first.

#### 6.3 Changing the batteries



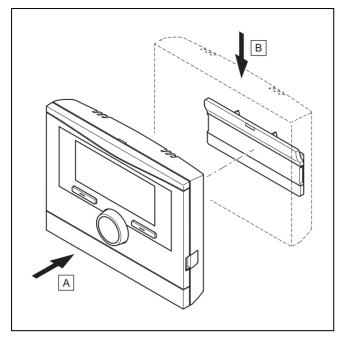
1. Remove the control from the unit mounting bracket as shown in the figure.



- 2. Open the battery compartment as shown in the figure.
  - Always change all the batteries at the same time.
  - Only use LR06 batteries

3.

- Do not use rechargeable batteries
- Do not combine the batteries with other battery types
- Do not combine new and used batteries
- 4. Insert the batteries, making sure that the poles are the right way round.
- 5. Do not short-circuit the connection contacts.
- 6. Close the battery compartment.



7. Clip the control into the unit mounting bracket as shown in the figure, making sure that it clicks into place.

### 7 Care and maintenance

#### 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 solventfree soap.

#### 7.2 Maintaining the product

#### 7.2.1 Overview of the maintenance messages

Maintenance messages (→ Appendix C)

### 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.
- Remove the batteries if you intend to store the product and not use it for an extended period.

#### 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:

- 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.
- 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.
- 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,

### **10 Technical data**

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. Garantiearbeiten werden grundsätzlich nur von unserem Werkskundendienst ausgeführt.

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/werkskundendienst/

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 Kundendiensttechniker 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-heat- ing energy efficiency ຖຣ	4.0 %

### Appendix

### A Overview of the end user and display functions

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

### A.1 Operating modes

Note

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	Values		Increment, select	Default setting
	Min.	Max.			
Information $\rightarrow$ System status $\rightarrow$	•		•		
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, Cool- ing, 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	Current value			
Curr. room air hum.	Current	Current value			
Current dew point	Current	value	°C		
triVAI	Current	value			
Battery status	Current	value		Critical, OK	
Signal strength	Current	value		1	
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	Current value			
Ventilation				•	•

# Appendix

Setting level	Values	Unit	Increment, select	Default setting
	Min. Max.			
Air quality sensor 1	Current value	ppm		
Air quality sensor 2	Current value	ppm		
Exhaust air humidity	Current value	%rel		
Information $\rightarrow$ Consumption $\rightarrow$ C	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 $\rightarrow$ Consumption $\rightarrow$ L	.ast month →			
Heating		1	T	-
Electricity	Total value for the last month	kWh		
Fuel	Total value for the last month	kWh		
Hot water		1	1	-
Electricity	Total value since start- up	kWh		
Fuel	Total value since start- up	kWh		
Information $\rightarrow$ Consumption $\rightarrow$ H	listory →			
Heating		1		
Electricity	Total value since start- up	kWh		
Fuel	Total value since start- up	kWh		
Hot water		1	1	-
Electricity	Total value since start- up	kWh		
Fuel	Total value since start- up	kWh		
Information → Solar yield →				
Bar chart	Previous year to cur- rent year comparison	kWh/month		
		1	1	
Information -> Environmental yi				
Bar chart	Previous year to cur- rent year comparison	kWh/month		
Information → Electrical consun	nption →			
Bar chart	Previous year to cur- rent year comparison	kWh/month		
		1	1	1
Information -> Fuel consumption	<b>n</b> →			

Setting level	Values		Unit	Increment, select	Default setting	
	Min.	Max.				
Bar chart	Previous year to cur- rent year comparison		kWh/month			
	,					
Information → Heat recovery →						
Bar chart	Previous yo rent year c		kWh/month			
Information → Contact details →						
Installer Phone number	Current va	lues				
Information → Serial number						
Product number	Permanent	value				
Desired temperatures $\rightarrow$ ZONE1 $\rightarrow$						
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	
		1	1			
Desired temperatures → Domestic ho	t water →					
Domestic hot water	35	70	°C	1	60	
		1	1			
Ventilation stage →						
Max. vent. stage: Day	Depending ventilation			1	Depending on the ventilation unit	
Max. vent. stge: Night	Depending ventilation			1	Depending on the ventilation unit	
Time programmes → ZONE1 (Heating)						
Time programmes → ZONE1: Cooling Time programmes → Circulation →	$\rightarrow$					
Time programmes $\rightarrow$ Circulation $\rightarrow$ Time programmes $\rightarrow$ Ventilation $\rightarrow$						
Individual days and blocks				Monday, Tuesday, Wednes- day, Thursday, Friday, Sat- urday, 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 wa	ater →					
Individual days and blocks				Monday, Tuesday, Wednes- day, Thursday, Friday, Sat- urday, 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 Period 2: Start – End	00:00	24:00	h:min	00:10		
Period 3: Start – End						
Time programmes → Noise reduction	operation -	<b>&gt;</b>				

# Appendix

Setting level	Values		Unit	Increment, select	Default setting
	Min.	Max.	1		
Individual days and blocks				Monday, Tuesday, Wednes- day, Thursday, Friday, Sat- urday, Sunday and Monday - Friday, Saturday - Sunday, Monday - Sunday	Mon – Sun: 00:00- 00:00
Period 1: Start – End Period 2: Start – End Period 3: Start – End	00:00	24:00	h:min	00:10	
Time programmes → High tariff -	<b>→</b>				
Individual days and blocks				Monday, Tuesday, Wednes- day, Thursday, Friday, Sat- urday, Sunday and Monday - Friday, Saturday - Sunday, Monday - Sunday	Mo - Su: 11:00- 13:00
Period 1: Start – End Period 2: Start – End Period 3: Start – End	00:00	24:00	h:min	00:10	
Days away from home schedulir	na →				
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 →		<u> </u>	1	1	
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 →					
	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 $\rightarrow$ Display $\rightarrow$					
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	12
High-tariff elec. rate	1	999		1	20
			1	·	
Basic settings $\rightarrow$ Offset $\rightarrow$					
Room temperature	-3.0	3.0	К	0.5	0.0
Outside temperature	-3.0	3.0	К	0.5	0.0
	<b>I</b>			1	
Basic settings → Operating mod	e → ZONE1 →				
Heating				off, Auto, Day, Set-back	Auto

Setting level	Values		Unit	Increment, select	Default setting	
	Min.	Max.	1			
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 $\rightarrow$ Enter zone name $\rightarrow$						
ZONE1	1	10	Let- ter/number	A to Z, 0 to 9, space	ZONE1	
			·			
Basic settings $\rightarrow$ Ventilation $\rightarrow$						
Heat recovery				Auto, Activate, off	Auto	
Basic settings $\rightarrow$ Max. room air humic	dity →					
Max. room air hum.	30	70	%rel	1	40	
Basic settings $\rightarrow$ Default setting $\rightarrow$						
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	The batteries are flat	1. Change all the batteries. (→ Page 20)
		2. If the fault persists, inform the competent person.
No changes in the display when	Software error	1. Take all the batteries out.
the rotary knob is turned		2. Insert the batteries in the battery compartment, making sure that the poles are the right way round.
		3. If the fault persists, inform the competent person.
No changes in the display	Software error	1. Take all the batteries out.
via the selection buttons are pressed		2. Insert the batteries in the battery compartment, making sure that the poles are the right way round.
		3. If the fault persists, inform the competent person.
Display view: No RF commu- nication	The reception strength is too weak	1. Take the control to the radio receiver unit and see if the reception strength increases.
		2. If the reception strength is greater than 4, have the compet- ent person install the control in a different location.
		<ol> <li>If the reception strength when directly next to the radio re- ceiver unit is less than 4, switch off the mains switch for all the heat generators and then wait approximately 1 minute before switching it back on.</li> </ol>
		4. If the fault persists, inform the competent person.
Display view: Button lock act- ive To unlock, press OK for	Button lock is active	1. If you would like to change any of the values, follow the in- structions on the display.
<b>3 seconds</b> , it is not possible to change the settings or values		2. Also read the "Activating <b>Button lock</b> (→ Page 20)" function for more details.
Display view: Restricted opera-	Heat pump does not work	1. Inform the competent person.
tion/ comfort protection, insuf- ficient heating up of the heating and the domestic hot water		2. Select the setting for limp home mode until the competent person arrives.
		3. Read the "Temporarily setting limp home mode (→ Page 20)" function for more details.

Symptom	Possible cause	Measure
Display view: <b>Fault F. Fault:</b> <b>Heat generator 1</b> , the specific fault code (e.g. F.33) and the specific heat generator appear behind F. in the display	Heat generator faults	<ol> <li>Press the Reset selection button.         <ul> <li>Heat generator fault clearance? appears in the display.</li> </ul> </li> <li>Press the OK selection button.         <ul> <li>Faults are cleared for the heat generator briefly appears in the display.</li> </ul> </li> <li>If the fault persists, inform the competent person.</li> </ol>
Display view: Change batteries	The batteries are almost flat	<ol> <li>Change all the batteries. (→ Page 20)</li> <li>If the fault persists, inform the competent person.</li> </ol>
Display view: Clean outside temperature sensor	The battery in the outdoor tem- perature sensor is flat	<ol> <li>Cleaning the outdoor temperature sensor (→ Page 20).</li> <li>If the fault persists, inform the competent person.</li> </ol>

### 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 6.

The maintenance message **Service heat generator 1** is an example of a maintenance message that may appear for heat generators 1 to 6.

#	Message	Description	Maintenance work	Interval	
1	Service heat pump 1	The heat pump requires main- tenance work.	Refer to the operating instruc- tions of the relevant heat pump for information on the mainten- ance 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 instruc- tions of the relevant heat gener- ator for information on the main- tenance work required	See the operating instructions for the heat generator	
3	Service ventila- tion unit	The ventilation unit requires maintenance work.	Refer to the operating instruc- tions of the ventilation unit for information on the maintenance work required	See the operating instructions for the ventilation unit	

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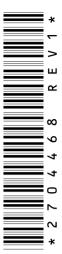
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