

Operating instructions



geoTHERM

VWS 36/4.1 230V

BEde, 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



Danger!

Risk of death from electric shock



Warning.

Risk of minor personal injury



Caution.

Risk of material or environmental damage

1.2 General safety information

1.2.1 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.

1.2.2 Danger due to malfunctions

Ensure that the heating installation is in a technically perfect condition.

- Ensure that no safety or monitoring devices have been removed, bridged or disabled.
- Immediately eliminate any faults and damage that may affect safety.
- Install the control in a location where it is not covered by furniture, curtains, or other objects.
- If room temperature modulation is activated, be aware that, in the room where the control is mounted, all the radiator valves must be fully open.
- Do not use the products' free terminals as supporting terminals for other wiring.
- At lengths of over 10 m, 230 V connection cables must be laid separately from sensor or bus lines.

1 Safety

1.2.3 Preventing the risk of injury due to chemical burns caused by brine fluid

The brine fluid ethylene glycol is harmful to health.

- ▶ Avoid contact with the skin and eyes.
- ▶ Always wear gloves and protective goggles.
- ▶ Do not inhale or swallow.
- ▶ Observe the safety data sheet that accompanies the brine fluid.

1.2.4 Preventing the risk of injury due to scalding from hot and cold components

Particularly in the refrigeration circuit, the components of the product can reach high temperatures or extremely low temperatures.

- ▶ Do not touch any uninsulated pipelines in any part of the heating installation.
- ▶ Do not remove any casing sections.
- ▶ Do not touch the compressor, as it can become extremely hot during operation.

1.2.5 Preventing the risk of injury from freezing as a result of touching refrigerant

The product is delivered with an operational filling of R410A refrigerant. This is a chlorine-free refrigerant which does not affect the Earth's ozone layer. R410A is neither a fire hazard nor an explosion risk. Escaping refrigerant may cause freezing if the exit point is touched.

- ▶ If refrigerant escapes, do not touch any components of the product.
- ▶ Do not inhale any steam or gases that escape from the refrigerant circuit as a result of leaks.
- ▶ Avoid skin or eye contact with the refrigerant.
- ▶ In the event of skin or eye contact with the refrigerant, seek medical advice.

1.2.6 Risk of death due to changes to the product or the product environment

- ▶ Never remove, bridge or block the safety devices.
- ▶ Do not tamper with any of the safety devices.
- ▶ Do not damage or remove any tamper-proof seals on components.



- ▶ Do not make any changes:
 - To the product itself
 - To the supply lines
 - On the drain pipework
 - On the expansion relief valve for the heat source circuit
 - to constructional conditions that may affect the operational reliability of the product

1.2.7 Risk of injury and material damage due to maintenance and repairs carried out incorrectly or not carried out at all

- ▶ Never attempt to carry out maintenance work or repairs on your product yourself.
- ▶ Faults and damage should be immediately rectified by a competent person.
- ▶ Adhere to the maintenance intervals specified.

1.2.8 Structural damage due to escaping water

Escaping water can cause damage to the building.

- ▶ If there is a possibility of leaks in the pipework, close the service valves immediately.
- ▶ Have any leaks eliminated by your heating specialist company.

1.2.9 Risk of material damage caused by condensate inside the house

The lines between the heat pump and the heat source are cold, meaning that condensate can form on the lines in the house. This may lead to material damage, for example due to corrosion.

- ▶ Ensure that you do not damage the insulation of the lines.

1.2.10 Frost damage due to an unsuitable installation site

Frost poses a risk of damage to the product and the whole heating installation.

Even if rooms, or the whole flat, are not in use for certain periods, the heating must remain in operation.

Frost protection and monitoring devices are only active while the product is connected to the power supply. The product must be connected to the power supply.

The heat pump itself does not have a frost protection function. For smooth operation of the refrigeration circuit, a minimum room temperature of 7 °C must be maintained. If the room temperature falls below 7 °C, this



1 Safety

may lead to frost damage on the heat pump.

1.2.11 Risk of material damage caused by frost

- ▶ Ensure that the heating installation always remains in operation during freezing conditions and that all rooms are sufficiently heated.
- ▶ If you cannot ensure the operation, have a competent person drain the heating installation.

1.2.12 Frost damage as a result of a power cut

During installation, your competent person connected the product to the power grid. If the power supply is cut, it is possible that parts of the heating installation may become damaged by frost. If you want to use an emergency power generator to maintain the operational readiness of the product during a power cut, note the following:

- ▶ Contact your competent person for advice on installing an emergency power generator.
- ▶ Make sure that the technical values of this emergency power generator (frequency, voltage, earthing) match those of the power grid.

1.2.13 Product fault as a result of incorrect system pressure

To avoid operating the system with too little water and thus prevent resulting damage, note the following:

- ▶ Check the system pressure of the heating installation at regular intervals.
- ▶ The system pressure instructions must be observed.

1.2.14 Avoid environmental damage caused by escaping refrigerant

The product contains R 410 A refrigerant. The refrigerant must not be allowed to escape into the atmosphere. R410A is a fluorinated greenhouse gas covered by the Kyoto Protocol, with a GWP of 2088 (GWP = global warming potential). If this gas escapes into the atmosphere, its impact is 2088 times greater than the natural greenhouse gas CO₂.

Before the product is disposed of, the refrigerant that is contained in it must be completely drained into a suitable vessel so that it can then be recycled or disposed of in accordance with regulations.

- ▶ Ensure that only officially certified competent persons with

appropriate protective equipment carry out maintenance work on the refrigerant circuit or access it.

- Arrange for the refrigerant that is contained in the product to be recycled or disposed of by a certified competent person in accordance with the regulations.

1.3 Intended use

There is a risk of injury or death to the user or others, or of damage to the product and other property in the event of improper use or use for which it is not intended.

The brine-to-water heat pump is designed for use as a heat generator for closed heating installations. The product is intended exclusively for domestic use as a heat generator for closed central heating installations. Operating the product outside the operating limits results in the product being switched off by the internal control and safety devices.

Intended use includes the following:

- observance of the operating instructions included for the product and any other installation 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.

2 Notes on the documentation

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 to products with the following type designations and article numbers only:

Type designation	Art. no.
VWS 36/4.1 230 V	0010022462

The 10-digit article number for the product can be found on the data plate, which is fitted in the factory on the underside of the product.

3 System overview

3.1 Manually adjustable functions

Manually adjustable functions are available that you can use to temporarily deactivate automatic mode and control operation manually or adapt it to your own requirements:

- Time programmes
- Holiday programmes
- Party function
- 1 day away from home
- 1 day at home
- 1 x ventilation boost

These functions are available via the higher-level system control → **VRC 700 operating instructions**.

3.2 Weather-compensated system control

The system is equipped with a weather-compensated system control that provides heating and domestic hot water operation depending on the control type, and controls this in automatic mode.

The control ensures a higher heating output when outdoor temperatures are low. In the event of relatively high outdoor temperatures, the control reduces the heating output. The outdoor temperature is measured by a separate sensor which is mounted in the open air, and the results are transmitted to the control.

The room temperature depends only on the preset values. The system compensates for the effect of the outdoor temperature.

Hot water generation is not affected by the weather compensation.

The → **operating instructions for the VRC 700** describe how to operate the system control.

3.3 Back-up boiler

The → **operating instructions** for the relevant product describe how to operate the back-up boiler.

3.4 Task of the heat pump system

The heat pump system generates heat in domestic hot water heating installations by extracting the thermal energy from a heat source circuit and releasing this into the heating circuit via the internal refrigeration circuit. From an outdoor temperature of approximately 0 °C, the heat pump's heating output is no longer sufficient. As of this temperature, the heat pump is supported by the electric back-up heater or the gas-fired boiler, depending on the system.

The domestic hot water is generated in mono-energetic mode by the heat pump with the support of an electric back-up heater. With hybrid systems, the domestic

hot water is generated only by the gas-fired boiler.

The heat pump is equipped with an additional cooling function that you can use to cool the living rooms when the outdoor temperature is higher during summer.

3.5 Safety devices

3.5.1 Frost protection function

The frost protection function for the system is controlled via the system control. If the system control fails, the heat pump guarantees limited frost protection for the heating circuit.

3.5.2 Protection against low heating water pressure

This function continuously monitors the pressure of the heating water in order to prevent a possible loss of heating water.

An analogue pressure sensor switches off the heat pump if the water pressure drops below the minimum pressure. It switches the heat pump on again if the water pressure reaches the operating pressure.

- Minimum heating water pressure:
≥ 0.05 MPa (≥ 0.50 bar)
- Heating water operating pressure:
≥ 0.07 MPa (≥ 0.70 bar)

3.5.3 Brine pressure detector

The brine loss protection system continuously monitors the fluid pressure in the environment circuit in order to prevent a possible shortage of fluid.

An analogue pressure sensor switches off the heat pump if the fluid pressure drops below the minimum pressure. It switches the heat pump on again if the fluid pressure reaches the operating pressure.

- Minimum brine fluid pressure:
≥ 0.05 MPa (≥ 0.50 bar)
- Brine fluid operating pressure:
≥ 0.07 MPa (≥ 0.70 bar)

3.5.4 Freeze protection

This function prevents the evaporator from freezing when the heat source temperature drops below a certain value.

The outlet temperature of the heat source is constantly measured. If the outlet temperature of the heat source falls below a certain value, the compressor temporarily switches off and displays a status message. If this fault occurs three times in succession, the unit is permanently shut down and displays a fault message.

3.5.5 Pump- and valve-blocking protection system

This function prevents the pumps for heating water and brine and all diverter valves from sticking. The pumps and the valves, which were out of operation for 23 hours, are switched on for 10 - 20 seconds, one after the other.

3.5.6 High-pressure pressure switch in the refrigeration circuit

The high-pressure pressure switch shuts down the heat pump if the pressure in the refrigeration circuit is too high.

If the pressure in the heat pump's refrigeration circuit exceeds the maximum pressure, the high-pressure pressure switch temporarily shuts down the heat pump. Following a waiting period, another attempt is made to start the heat pump. After eleven failed start attempts in succession, a fault message is displayed.

- Max. refrigeration circuit pressure: 4.15 MPa (g) (41.50 bar (g))
- Waiting period: 5 minutes (after the first occurrence)
- Waiting period: 30 minutes (after the second and every further occurrence)

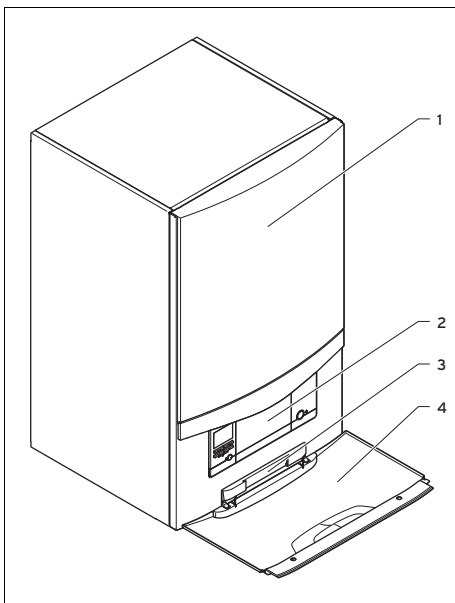
The fault counter is reset if both of the following conditions are met:

4 Product description

- Heat requirement without switching off prematurely
- 60 minutes of uninterrupted operation

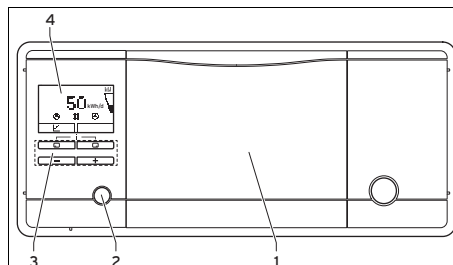
4 Product description

4.1 Product design



- | | |
|-----------------|--|
| 1 Front casing | 3 Plate with serial number on the rear |
| 2 Control panel | 4 Front flap |

4.2 Overview of the operator control elements



- | | |
|-------------------------------|---------------------|
| 1 Slot for the system control | 3 Operating buttons |
| 2 Reset button | 4 Display |

4.3 Digital Information and Analysis System (DIA)

The product is equipped with a Digital Information and Analysis System (DIA system). This system provides information on the product's operating status and helps you eliminate faults.

4.3.1 Symbols in the display

Heating mode:

- The symbol lights up permanently: Heat requirement is present
- The symbol is not visible: Heating mode is not active

Domestic hot water mode:

- The symbol lights up permanently: Heat requirement is present
- The symbol is not visible: Domestic hot water mode is not active

Cooling mode:

- The symbol lights up permanently: Cooling requirement is present
- The symbol is not visible: Cooling mode is not active

Compressor operating mode:






- The symbol is filled: Compressor is operating
- The symbol is empty: Compressor is not operating


Fault:  F.XXX

- Fault in the heat pump. Appears instead of the basic display; a plain text display explains the displayed fault code.

4.4 Information on the data plate

The data plate is mounted on the under-side of the product.

Information on the data plate	Meaning
Serial no.	Unique unit identification number
	Measuring voltage of the compressor, pumps and controls
P max	Maximum rated power
I max	Maximum in-rush current
	Refrigerant type, fill quantity, permissible rated overpressure
COP B0/W35	Output figure (coefficient of performance) at a brine temperature of 0 °C and heating flow temperature of 35 °C
COP B0/W55	Coefficient of performance at a brine temperature of 0 °C and heating flow temperature of 55 °C
 B0/W35	Heating output at a brine temperature of 0 °C and heating flow temperature of 35 °C
 B0/W55	Heating output at a brine temperature of °C and heating flow temperature of 55 °C
Volt	Mains voltage
Hz	Mains frequency
W	Power consumption
IP	Protection class
	Information on disposal

Information on the data plate	Meaning
	Reading the operating and installation instructions

4.5 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.

5 Operation

5.1 Operating concept


Both selection buttons have a soft key function. This means that their function can be changed.

Left-hand selection button :



- You cancel the change to a set value or the activation of an operating mode.
- You access one selection level higher in the menu.

Right-hand selection button :

- You confirm a set value or the activation of an operating mode.
- You go one selection level lower in the menu

Both selection buttons  +  at the same time:

- You access the menu.

"-" button  or "+" button :

- You go back and forth between the individual points of the entry list in the menu.
- You increase or decrease a selected set value.

5 Operation

The display shows a highlighted selection level, a setting level or a highlighted value with white font on a black background. A flashing, highlighted value means that you can change the value.

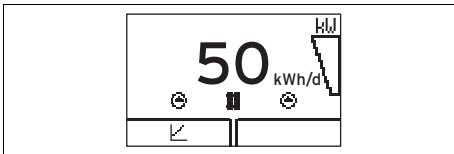
You always have the option to cancel the change to a setting or the reading of a value by pressing the left-hand selection button.



Note

If you do not press any buttons for more than 15 minutes, the display returns to the basic display. Changes that are not confirmed will not be applied.

5.2 Operation in the basic display



In the normal operating status, the basic display is shown. The basic display shows the current condition of the unit. If the display has been dimmed, the light is switched on by the first press of the button. In this case, to trigger the button function, you must press the button again.

You can call the yield indicator directly from the basic display:

- Pressing the left-hand selection button once: Heating mode yield indicator

You can access all other functions via the menu.

You can switch back to the basic display by:

- Pressing the left-hand selection button and exiting the selection levels
- Not pressing any button for longer than 15 minutes.

Changes that are not confirmed will not be applied.

If there is a fault message, the basic display switches to a plain text display of the fault message.

From the basic display, you can directly change and read the most important settings and information by pressing the selection buttons.

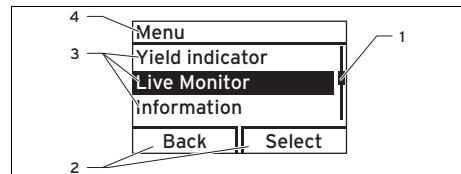
5.3 Operating levels

The product has two operating levels.

The operating level for the operator shows the most important information and offers set-up options which do not require any special prior knowledge.

The operating level for the competent person must only be operated by persons with expertise and is therefore protected by a code. In this level, the competent person can set system-specific parameters.

5.4 Design of the menu



- | | | | |
|---|---|---|---|
| 1 | Scrollbar (if more than three list entries are available) | 2 | Current functions of the right and left-hand selection buttons (soft key functions) |
| | | 3 | Selection level list entries |
| | | 4 | Current function or selection level |

In addition to the direct operation via the selection buttons from the basic display, the digital information and analysis system has a menu that, in turn, has several selection levels (sub-levels).

Using the selection levels, you can navigate to the display and setting levels in which you can read or change settings.

The selection levels have four display fields.



Note

Path details at the start of an instruction specify how this function can be accessed, e.g. **Menu → Information → Contact data.**

5.5 Yield indicator

Displays the environmental energy yield as a cumulative value for a period of a day, a month and the total for the heating, domestic hot water generation and cooling modes.

Displays the working figure for a period of a month and the total for the heating and hot water generation modes. The working figure is the ratio of thermal energy generated to the operating current used. Monthly values may vary considerably since, for example, in the summer only hot water generation is used. A large number of factors influence this estimate, e.g. the type of heating installation (direct heating mode = low flow temperature or indirect heating mode via buffer cylinder = high flow temperature). This figure may therefore deviate by up to 20%.

The working figures only record the power consumption of internal components, not of external components such as external heating circuit pumps, valves, etc.

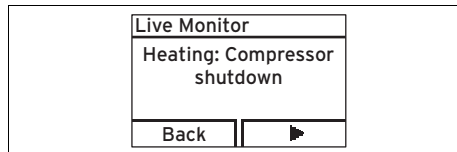
5.6 Setting the language

Menu → Basic settings → Language

- Your competent person should have set the boiler to your desired language. If you want to set another language, you can proceed as follows:
 - ▶ Press the left-hand and right-hand selection buttons at the same time to access the menu level.
 - ▶ Press the plus button three times and confirm this by pressing the right-hand selection button .
 - ◁ You are now in the "Basic settings" level.

- ▶ Press the plus button until the required language is shown in the display, and confirm this language by pressing the right-hand selection button .

5.7 Displaying the Live Monitor (current status of the boiler)



Menu → Live Monitor

- The Live Monitor function allows you to display the current status of your unit. The display is automatically updated if the unit status changes.

5.8 Displaying the building circuit pressure

Menu → Live Monitor → Building circuit pressure

- You can display the current filling pressure of the heating installation in digital form.

5.9 Displaying the environment circuit pressure

Menu → Live Monitor → Environment circuit pressure

- You can display the current pressure in the environment circuit (brine or well water, depending on the installation).

5.10 Reading the operating statistics

Menu → Information → Heating op. hours

Menu → Information → DHW operating hours

Menu → Information → Cooling op. hours

6 Care and maintenance

Menu → Information → Total operating hours

In each case, you can display the operating hours for the heating mode, the domestic hot water mode, the cooling mode and the overall operation.

5.11 Displaying contact data

Menu → Information → Contact details

- If your competent person has entered their telephone number during the installation, you can read this data under **Contact data**.

5.12 Displaying the serial number and article number

Menu → Information → Serial number

- The unit's serial number is displayed.
- The article number is found in the second line of the serial number.



Note

The serial number can also be found on a plate, which is in a plastic fish plate behind the front flap on the underside of the unit.

5.13 Setting the display contrast

Menu → Basic settings → Display contrast

- You can use this function to adjust the display contrast to suit your needs.

5.14 Calling up the installer level



Caution.

Risk of damage caused by incorrect handling.

Incorrect settings may cause damage to the heating installation.

- Only make settings in the installer level if you are authorised to do so.

The installer level is reserved for the competent person and secured against unauthorised access with a password because incorrect parameter settings at this level may cause malfunctions and damage to the heating installation.

5.15 Setting the target flow temperature in heating mode in a system control

The target flow temperature is automatically set by the system control (you can find further information about this in the operating instructions for the system control).

6 Care and maintenance

6.1 Maintenance

An annual inspection and biennial maintenance of the product carried out by a competent person is a prerequisite for ensuring that the product is permanently ready and safe for operation, reliable, and has a long service life. The inspection may require maintenance to be carried out earlier, depending on the results.

6.1.1 Concluding an inspection and maintenance contract

Vaillant recommends that you sign an inspection and maintenance contract.

6.2 Fulfilling requirements for the installation site

The installation site must be dry and frost-proof throughout.

You are not permitted to make any subsequent structural alterations which may result in a reduced room volume or a change to the temperature at the installation site.

6.3 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.

6.4 Checking the system pressure

- Check the filling pressure of the heating installation every day for a week after initial start-up and maintenance work, and then twice a year.
 - Operating pressure range:
≥ 0.07 MPa (≥ 0.70 bar)
- Filling pressure too low:
 - Inform your competent person so that he can add heating water and increase the filling pressure.

6.5 Checking the brine circuit's filling pressure

- Check the filling pressure of the brine circuit every day for a week after initial start-up and maintenance work, and then twice a year.
 - Brine fluid operating pressure range:
0.15 ... 0.20 MPa (1.50 ... 2.00 bar)

Conditions: Filling pressure too low:


- Inform your competent person so that he can add the appropriate brine fluid only and increase the filling pressure.



Note

If the filling pressure falls below 0.05 MPa (0.5 bar), the heat pump is automatically switched off and a fault message is displayed.

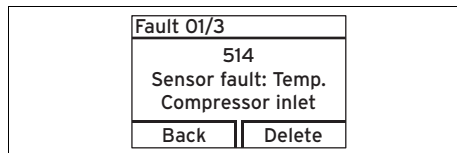
6.6 Reading maintenance messages

If the  symbol is shown in the display, the product requires maintenance work. The product is not in fault mode; it continues to operate.

- Consult a competent person.

7 Troubleshooting

7.1 Fault message



Fault messages have priority over all other displays. If a fault occurs in the heat pump, it is the display that shows a fault code, rather than the basic display.

Example using F.514: "Temp. sensor fault: Compressor inlet".

If several faults occur at the same time, the display shows the corresponding fault messages for two seconds each in alternation.



Caution.

Risk of damage caused by improper troubleshooting

The heat pump system may become damaged if you carry out troubleshooting yourself.

- Do not press the reset button more than once.
- In this case, inform your competent person or contact Vaillant customer services.
- Inform your competent person if faults that are not described in these operating instructions occur.

8 Decommissioning

- ▶ Have your Vaillant competent person eliminate the cause of the fault.

- ▶ Contact your competent person if your heat pump displays a fault message.

7.2 Troubleshooting

7.2.1 Reset function

The heat pump system has an automatic reset function, i.e. the heat pump system automatically reverts to its starting condition, provided no fault is present in the heat pump system itself.

7.2.2 Status code meanings

The status codes provide you with information about the current operating status of your product.

If several operating statuses occur at the same time, the applicable status codes are displayed alternately, one after the other.

8 Decommissioning

8.1 Switching off the product

8.1.1 Disconnecting the product from the power grid

- ▶ Pull the product's mains plug out of the earthed socket.



Note

In the case of a restart following a loss of voltage or a shutdown of the power supply, the current date and time are automatically reset by the DCF receiver or, if there is no DCF reception, you must reset these values yourself.

8.1.2 Protecting the product against frost

- ▶ Observe the installation site requirements for the product (→ Page 14).

8.2 Permanently decommissioning

- ▶ Have your competent person permanently decommission the product.

9 Recycling and disposal

9.1 Recycling and disposal

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



If the product is identified with this symbol:

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



If the product contains batteries that are marked with this symbol, 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.

9.1.1 Arranging disposal of the brine fluid

The product is filled with ethylene glycol, which is a brine fluid. This is harmful to health.

- ▶ Brine fluid must only be disposed of by a qualified competent person.

9.1.2 Arranging disposal of refrigerant

The product is filled with R410A refrigerant.

- Refrigerant must only be disposed of by a qualified competent person.

10 Guarantee and customer service

10.1 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 Werks-garantie 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: Germany

Herstellergarantie gewähren wir nur bei Installation durch einen anerkannten Fachhandwerksbetrieb.

Dem Eigentümer des Geräts räumen wir diese Herstellergarantie entsprechend den Vaillant Garantiebedingungen ein. Garantiarbeiten 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

10 Guarantee and customer service

Auftrag erteilt haben und es sich um einen Garantiefall handelt.

10.2 Customer service

Applicability: Belgium

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

Kundendienst / Service après-vente / Klantendienst: 2 3349352

Applicability: Germany

Auftragsannahme Vaillant Kundendienst:
021 91 5767901

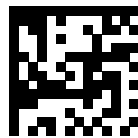
Appendix

A Overview of operating levels

Setting level	Values		Unit	Increment, select	Default setting	Setting
	Min.	Max.				
Yield indicator →						
Heating	Current value		kWh			
Domestic hot water	Current value		kWh			
Live Monitor →						
Current status messages	Current value					
Building circuit pressure	Current value		bar			
Environment circuit pressure	Current value		bar			
Switch-on delay	Current value		min			
Flow temp. setpoint	Current value		°C			
Current flow temp.	Current value		°C			
Energy integral	Current value		°min			
Environment circuit inlet temperature	Current value		°C			
Environment circuit outlet temperature	Current value		°C			
Cooling capacity	Current value		kW			
Electrical power consumption	Current value		kW			
Information →						
Contact data	Phone number					
Serial number	Permanent value					
Operating hours total	Current value		h			
Hours heating	Current value		h			
DHW operating hours	Current value		h			
Cooling op. hours	Current value		h			
Basic settings →						

Appendix

Setting level	Values		Unit	Increment, select	Default setting	Setting
	Min.	Max.				
Language	Current language			01 Deutsch 02 English 03 Français 06 Nederlands 16 Norsk 18 Čeština 20 Slovenščina 27 Suomi	02 English	
Display contrast	Current value			1		
Resets → No items available						



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0020250185_00 ■ 30.05.2017

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