

Operating and installation instructions



Infrared radiant heater

VEI 300/1 MW – VEI 1000/1 MW

AT, DE

Publisher/manufacture

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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 For the operator

1.2.1 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 product is designed to increase the room temperature of closed living rooms.

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.

Keep children under 3 years of age away unless they are under continuous supervision.

Children between the ages of 3 and 8 years must only be allowed to switch the product on and off if they are supervised while doing so or have been provided with instructions on how to safely use the product and have understood the potential risks of using it, and provided that the product is positioned or installed where it is normally used. Children between the ages of 3 and 8 years must not be allowed to plug the plug into the plug socket, adjust the settings on the product,

clean the product or carry out maintenance work on the product.

Caution: Some parts of the product may become very hot and cause burns. Extra care must be taken when children and other vulnerable people are in the vicinity.

Children must not play with the product.

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 for the end user

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 material damage caused by overheating

- ▶ Ensure that the product is not covered or concealed.

1.4 For the competent person

1.4.1 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 product is designed to increase the room temperature of closed living rooms.

Intended use includes the following:

- observance of accompanying operating, installation and servicing instructions for the product and any other system components

1 Safety



- installing and fitting the product in accordance with the product and system approval
- compliance with all inspection and maintenance conditions listed in the instructions.

Intended use also covers installation in accordance with the IP class.

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.

1.5 General safety information for the competent person

1.5.1 Risk caused by inadequate qualifications

The following work must only be carried out by competent persons who are sufficiently qualified to do so:

- Set-up
- Dismantling
- Installation
- Start-up
- Inspection and maintenance
- Repair
- Decommissioning
- ▶ Observe all instructions that are included with the product.
- ▶ Proceed in accordance with current technology.
- ▶ Observe all applicable directives, standards, laws and other regulations.

1.5.2 Risk of death from electric shock

There is a risk of death from electric shock if you touch live components.

Before commencing work on the product:

- ▶ Unplug the mains plug.
- ▶ Or disconnect the product from the power supply by switching off all power supplies (electrical partition with a contact opening of at least 3 mm, e.g. fuse or line protection switch).

- ▶ Secure against being switched back on again.
- ▶ Check that there is no voltage.

1.5.3 Risk of being burned or scalded by hot components

- ▶ Only carry out work on these components once they have cooled down.

1.5.4 Risk of material damage caused by using an unsuitable tool

- ▶ Use the correct tool to tighten or loosen threaded connections.

1.6 Regulations (directives, laws, standards)

- ▶ Observe the national regulations, standards, guidelines and laws.



2 For the operator

2.1 Notes on the documentation

2.1.1 Observing other applicable documents

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

2.1.2 Storing documents

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

2.1.3 Validity of the instructions

These instructions apply only to:

Product article number

VEI 300/1 MW	0010023193
VEI 500/1 MW	0010023194
VEI 700/1 MW	0010023195
VEI 800/1 MW	0010023196
VEI 1000/1 MW	0010023197

2.2 Product description

The product is an infrared radiant heater that heats objects using infrared waves. These warm objects then transfer heat to their surroundings.

The product is equipped with a safety cut-out that switches the product off in the event of overheating and switches it back on automatically once the product has cooled down.

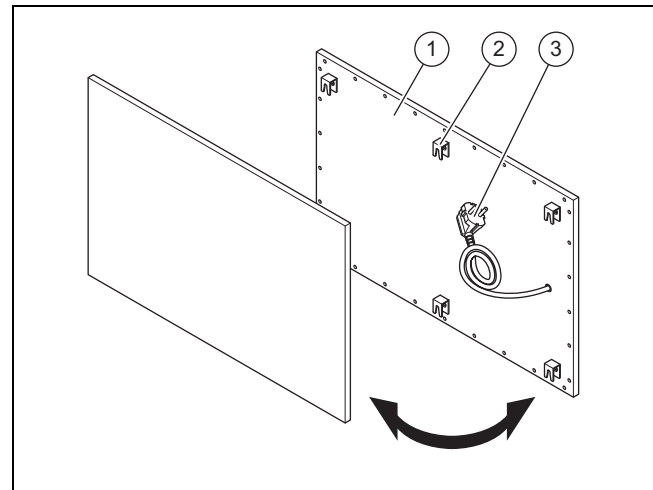
The product should be used in combination with the following components:

- **VRT 260f** radio control
- Radio receiver
 - **VR 44** radio receiver, exposed
 - **VR 45** radio receiver, concealed
 - **VR 46** remote control socket receiver
- **VR 48** window-opening detector

The product can be mounted on the wall or ceiling.

Maximum surface temperature at an environmental temperature of 20 °C: 110 °C (115 °C when mounted on the ceiling).

2.2.1 Product design



- | | | | |
|---|-------------------------|---|--------------|
| 1 | Infrared radiant heater | 3 | Earthed plug |
| 2 | Wall bracket | | |

2.2.2 Data plate

The data plate is located on the back panel of the product.

Information on the data plate	Meaning
	Read the instructions.
VEI	Infrared radiant heater
300 / 500 / 700 / 800 / 1000	320 / 500 / 650 / 800 / 1000 W nominal heat output (230 V power supply)
/1	Product generation
MW	Surface material and surface colour (front) – M = Metal – W = White
1~N PE 230 V	Voltage (V)
Serial number	for identification; 7th to 16th digits = product article number

2.2.3 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.

2 For the operator

2.2.4 Other symbols on the product

2.2.4.1 Do not cover safety sticker



The *Do not cover* safety sticker symbolises that the product must not be covered or encased.

2.3 Operation

2.3.1 Starting up the product

1. Switch on the power supply to the product.

Conditions: Initial start-up

- ▶ If pleasant heat is not generated straight away, leave the radiator on for an extended period until the room has reached a pleasant temperature.
 - Once all the fixed radiators have heated up, the room will be pleasantly warm.
- 2. Start up the radio control, the radio receiver and the window-opening detector (→ Radio control, radio receiver and window-opening detector operating instructions).

2.4 Troubleshooting

2.4.1 Detecting and rectifying faults

Conditions: The product is not emitting heat

- ▶ Check whether the product is covered or obstructed.

Conditions: The safety cut-out has switched the product off

- ▶ Wait for it to cool down.
 - ◁ The product will switch itself back on automatically.

2.5 Care

The colour of the product's surface may alter due to contaminants in the room air, for example due to cigarette smoke, a hearth/wood-burning stove or cooking fumes.

- ▶ Clean the product at regular intervals.

2.5.1 Caring for the product



Caution.

Risk of material damage caused by unsuitable cleaning agents.

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

2.6 Decommissioning the product

- ▶ Switch off the power supply to the product.

2.7 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.

2.8 Guarantee and customer service

2.8.1 Guarantee

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.

2.8.2 Customer service

Applicability: Austria

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

E-Mail Kundendienst: termin@vaillant.at

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

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Applicability: Germany

Auftragsannahme Vaillant Kundendienst: 021 91 5767901

3 For the competent person

3.1 Notes on the documentation

3.1.1 Observing other applicable documents

- ▶ You must observe all the operating and installation instructions included with the system components.

3.1.2 Storing documents

- ▶ Pass these instructions and all other applicable documents on to the system operator.

3.1.3 Validity of the instructions

These instructions apply only to:

Product article number

VEI 300/1 MW	0010023193
VEI 500/1 MW	0010023194
VEI 700/1 MW	0010023195
VEI 800/1 MW	0010023196
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The product can be mounted on the wall or ceiling.

Maximum surface temperature at an environmental temperature of 20 °C: 110 °C (115 °C when mounted on the ceiling).

3.2.1 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.

3.3 Set-up

3.3.1 Checking the scope of delivery

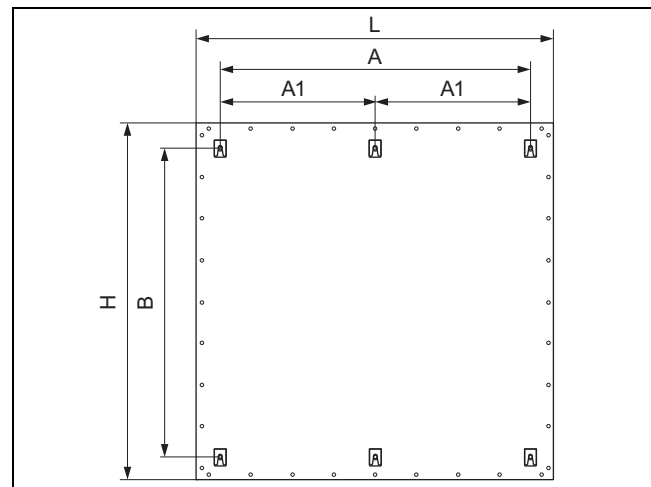
- ▶ Check that the scope of delivery is complete and intact.

1	Infrared radiant heater with pre-fitted wall brackets
1	Mounting template
1	Enclosed documentation

3.3.2 Requirements for the installation site

- ▶ Do not install the product immediately below a wall socket.
- ▶ Do not install the product in rooms where the air is very humid.
- ▶ Do not install the product in open spaces or in rooms in which it would be exposed to water or moisture, such as swimming pools.
- ▶ Do not install the product and its power socket with wiring in protection zone 0, 1 or 2 of a wet room.
- ▶ Do not install the product in rooms that inhabitants cannot leave unaided unless continuous monitoring is provided.
- ▶ Note that the room temperature should be at least 17 °C, and the floors and radiators should be kept clean to prevent the "black magic dust" phenomenon (fogging).

3.3.3 Dimensions

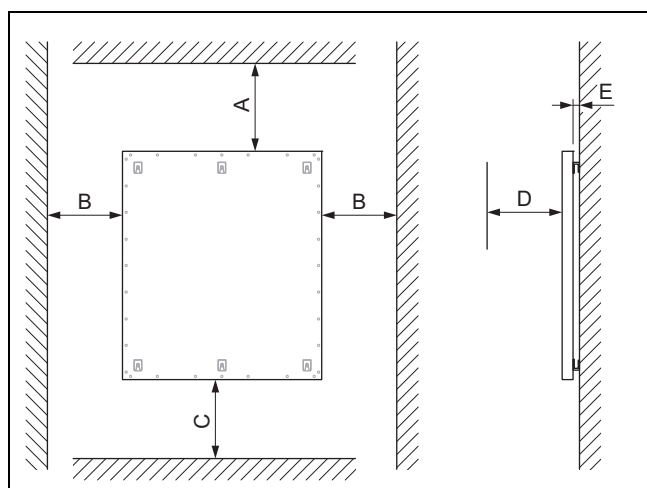


Product	H (mm)	L (mm)	A (mm)	A1 (mm)	B (mm)
VEI 300/1 MW	592	592	440	–	440
VEI 500/1 MW	592	892	740	–	440
VEI 700/1 MW	592	1192	1040	–	440
VEI 800/1 MW	592	1492	1340	670	440
VEI 1000/1 MW	750	1500	1340	670	600

3 For the competent person

3.3.4 Minimum clearances

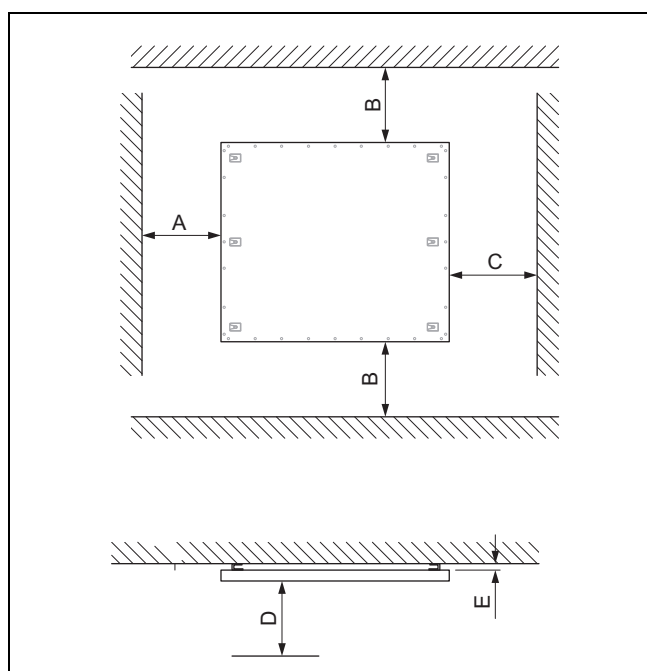
Conditions: Wall-mounting



A	200 mm	D	400 mm
B	200 mm	E	26 mm
C	200 mm		

- Always observe the minimum clearance (**E**) between the back panel and the wall. This minimum clearance is determined by the retaining brackets.

Conditions: Installing on the ceiling



A	200 mm	D	400 mm
B	200 mm	E	26 mm
C	200 mm		

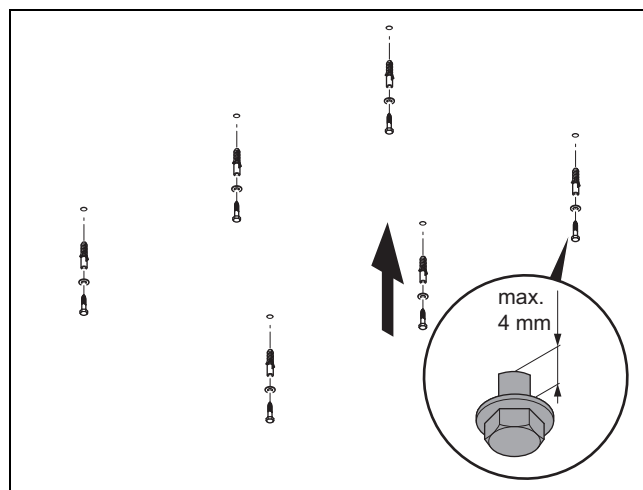
- Always observe the minimum clearance (**E**) between the back panel and the ceiling. This minimum clearance is determined by the retaining brackets.
- Make sure that air can circulate continuously between the back panel and the wall or ceiling.

3.3.5 Using the mounting template

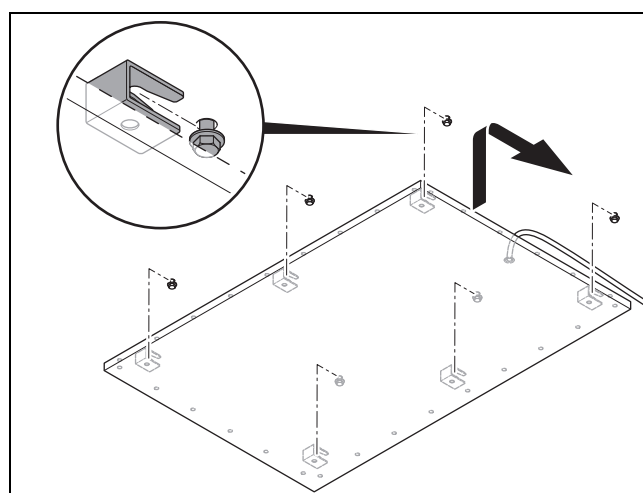
- Use the enclosed mounting template to determine the position of the drill holes for mounting the product on the wall or ceiling.

3.3.6 Installing the product

1. Drill the holes at the previously marked positions.
2. Use suitable rawl plugs, hexagon head screws and washers.



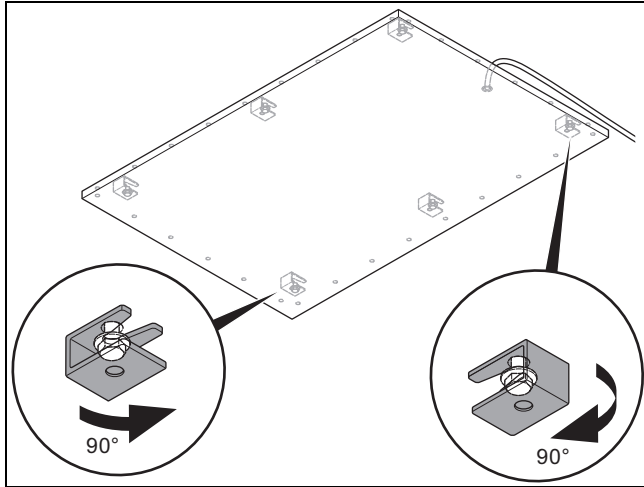
3. Insert the rawl plugs into the holes and screw in the screws with the washers.
4. Leave a gap of max. 4 mm between the washer and the wall or ceiling.



5. Slide the product onto the screws previously inserted, between the washers and the wall or ceiling, and hold the product firmly in place.

Conditions: Installing on the ceiling

- Mount the product with the help of a second person.



6. Rotate the bottom two wall brackets on the outside by 90°.
7. Tighten the screws using a suitable spanner.

3.4 Installation

3.4.1 Electrical installation

3.4.1.1 Establishing the power supply



Caution.

Risk of material damage due to high connected voltage.

At mains voltages greater than 253 V, electronic components may be damaged.

- Make sure that the rated voltage of the mains is 230 V.

Conditions: VR 46 remote control socket receiver

- To establish the power supply, plug the product's earthed plug into a suitable remote control socket receiver.

Conditions: VR 44 radio receiver, exposed

OR: VR 45 radio receiver, concealed

- Detach the earthed plug from the power supply cable.
- Connect the product to the radio receiver (→ Radio receiver installation instructions).

Conditions: VRT 260f radio control

- Establish a radio link to a VR 44, VR 45 or VR 46 radio receiver.

3.5 Troubleshooting

3.5.1 Detecting and rectifying faults

Conditions: The product is not emitting heat

- Check the power supply to the product.
- Check whether the product is covered or obstructed.

3.6 Decommissioning the product

- Disconnect the product from the power supply.

3.7 Recycling and disposal

Disposing of the packaging

- Dispose of the packaging correctly.
- Observe all relevant regulations.

3.8 Customer service

Applicability: Austria

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Appendix

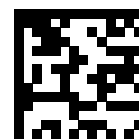
Appendix

A For the competent person

A.1 Technical data

	VEI 300/1 MW	VEI 500/1 MW	VEI 700/1 MW	VEI 800/1 MW
Net weight	7 kg	11 kg	14 kg	17 kg
Gross weight	7.8 kg	12 kg	16.2 kg	18.5 kg
Product dimensions, height	592 mm	892 mm	1,192 mm	1,492 mm
Product dimensions, width	592 mm	592 mm	592 mm	592 mm
Product dimensions, depth	17 mm	17 mm	17 mm	17 mm
Mains voltage	1~N PE 230 V	1~N PE 230 V	1~N PE 230 V	1~N PE 230 V
Nominal heat output (230 V power supply)	320 W	500 W	650 W	800 W
Permitted air humidity in room	70 %	70 %	70 %	70 %
Protection class	IP 21	IP 21	IP 21	IP 21

	VEI 1000/1 MW
Net weight	21.5 kg
Gross weight	24 kg
Product dimensions, height	1,500 mm
Product dimensions, width	750 mm
Product dimensions, depth	17 mm
Mains voltage	1~N PE 230 V
Nominal heat output (230 V power supply)	1,000 W
Permitted air humidity in room	70 %
Protection class	IP 21



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