

# Z 22945



## OPERATING INSTRUCTIONS



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# General

Dear customer

Thank you for choosing this radiator or towel radiator. This product has been manufactured in accordance with our stringent quality requirements to give you total satisfaction. To get the most out of your radiator, we advise you to read these instructions carefully and keep them to hand.  
Thank you for your purchase.



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Your appliance is supplied with a **BUILT-IN CONTROL UNIT** and **ROOM THERMOSTAT** for temperature regulation.

With its **COMFORT**, **ECO** and **FROST PROTECTION** operating modes, the appliance adapts to suit your needs.

In **AUTOMATIC MODE**, the thermostat operates to mode commands received via a **PILOT WIRE UNIT\*** or a **PLC UNIT\*\*** (6 commands possible). The **TIMER** function instructs the appliance to heat continuously for a preset period of up to 90 minutes. This function can be set to operate at the same time every day using the **TIMERPROG** function.

To prevent unwanted or unintentional changes to settings, the control buttons can be disabled using the **ELECTRONIC LOCK**.

**NOTE:** Your appliance is equipped with an integrated electronic control system and we cannot accept any liability should the appliance be used with control units that function by cutting the supply voltage (refer to the instructions supplied with your control unit).

\* Not supplied - \*\* PLC unit and interface module not supplied

## WARNING

This appliance is not intended for use by persons (including children) with impaired physical, sensory or mental capacities, or by persons lacking in experience or knowledge, unless they are supervised by, or have received prior instruction in using the appliance from, a person responsible for their safety. Children must be supervised to ensure that they do not play with the appliance.

Radiators and towel radiators must be used for the purpose for which they are intended and not as a table, chair, toy, ladder, etc. Radiators and towel radiators must be used as specified in the user and service instructions supplied with the appliance.

To avoid injury, the normal precautions for household activities, particularly those relating to the supervision of young children, should be taken.

## ENVIRONMENTAL REGULATIONS

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RoHS: Complies with Directive 2002/95/EC

WEEE: Complies with Directive 2002/96/EC



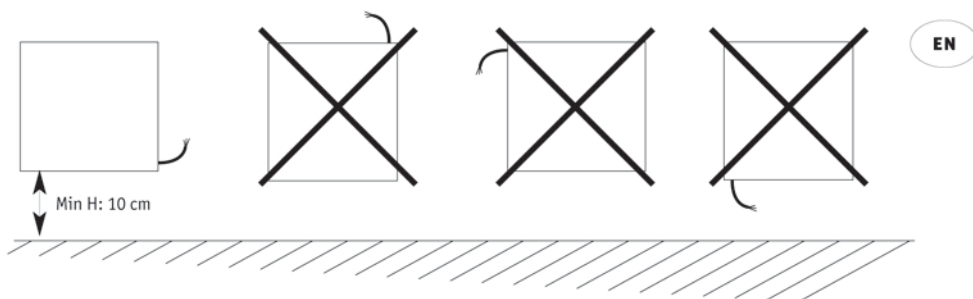
Disposal of end-of-life electrical and electronic appliances. This symbol indicates that this product should not be disposed of with household waste. It must be taken to a suitable collection point to be recycled. By disposing of this product correctly, you will help prevent potential negative consequences for the environment and human health.

# 1. Installing the appliance

To get the most out of your appliance and enjoy the highest standards of comfort, we recommend that you:

- install the appliance near places of high heat loss (windows, doors, etc.) wherever possible
- ensure that an area of about 50 cm in front of the appliance is clear of objects which might hinder air circulation (furniture, armchairs)
- leave at least 10 cm between the top of the appliance and any shelf
- not place the heating appliance underneath a power outlet
- use mounting screws suitable for your wall.

## 1.1 Positioning your standard (non-towel) radiator



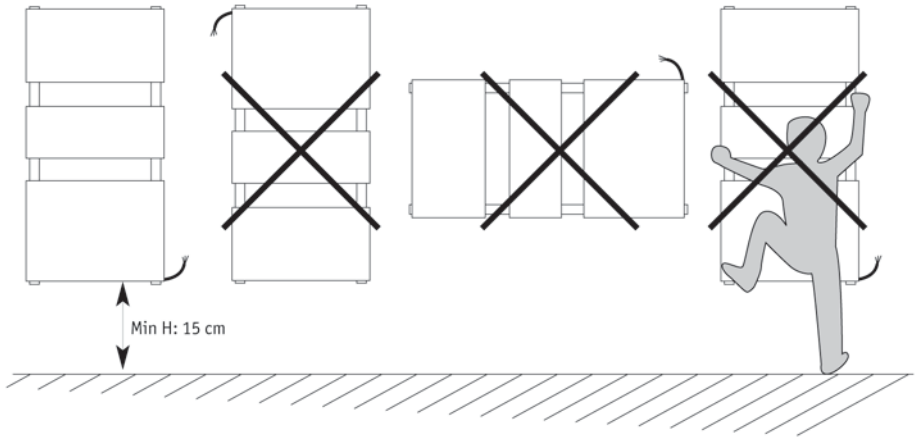
**IMPORTANT:** this radiator should never be installed with the power supply unit positioned topside.

Ensure that the bottom of the radiator is positioned at least 10 cm from the floor.

**CAUTION:** To avoid overheating, **DO NOT COVER** the heating appliance.



## 1.2 Positioning your towel radiator



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**IMPORTANT:** this towel radiator should never be installed with the power supply unit positioned topside.

Ensure that the bottom of the towel radiator is positioned at least 15 cm from the floor.

**WARNING:** To avoid any danger to very young children, you are advised to install this towel radiator so that the lowest heating bar is at least 600 mm above the ground.

**NOTE:** electric towel radiators are designed to be covered safely. However, to ensure that your appliance works efficiently, you are advised not to cover it completely. Doing so will increase the temperature and cause the internal cutout to turn off the appliance.

## 1.3 Connecting the appliance

The technical specifications of your appliance are shown on the nameplate, which is located on the side of the appliance towards the bottom. Please take note of these before installing the appliance.



When connecting the appliance to the mains, you must ensure that:

- voltage and power are as specified on the nameplate
- standard colour coding is used (brown: live, blue or grey: neutral, black: pilot wire).

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The flexible cable supplied with the appliance is designed to be connected to the mains via a junction box that must be placed behind the appliance, with no need for a plug. In a kitchen or bathroom, the junction box must be positioned at least 25 cm from the floor.

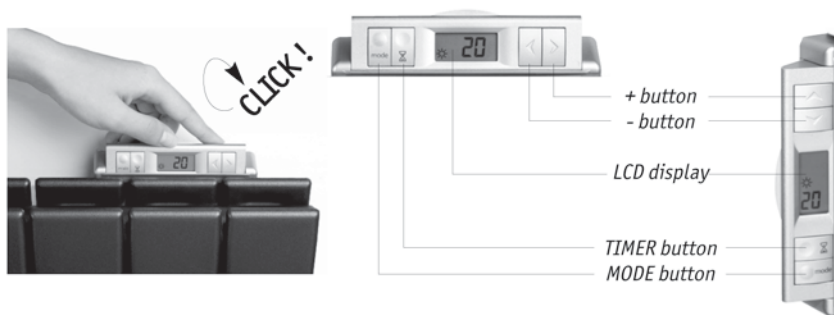
**CAUTION:** If the pilot wire is not connected, it must be insulated for safety reasons. Under no circumstances must it be connected to earth.

## 1.4 Radiator installation restrictions

This appliance must be installed in accordance with applicable standards and good practice in the country concerned.

**IMPORTANT:** the radiator must not be exposed to intensive or on-going ambient humidity (shower, swimming pool, etc.).

## 2. Using your appliance with the thermostat



### 2.1 The operating modes

To switch between modes, press the **MODE** button.

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**COMFORT** This mode should be used when the room is occupied (default temperature: 19°C). Temperature is adjustable between 7 and 28°C by pressing the + and – buttons.



**ECONOMY (ECO)** This mode should be used for periods of absence. It is recommended for periods of absence longer than 2 hours (default temperature: 15.5°C). **The default Eco mode temperature is your chosen Comfort mode temperature minus 3.5°C.**



**FROST PROTECTION** This mode should be used when the room is unoccupied for long periods. It is recommended for periods of absence longer than 24 hours (non-adjustable temperature: 7°C).



**NO-HEAT** The appliance is in no-heat mode.




















**AUTO** A box around this symbol indicates that the appliance is controlled by a Powerline Carrier unit\* (not supplied). If there is no box, the appliance is controlled by a Pilot Wire programming base unit\* (not supplied).



\* Temperature settings may only be changed on your appliance.



MODE	SYMBOL	VERTICAL DISPLAY/HORIZONTAL DISPLAY			
<b>COMFORT</b> MODE					
<b>ECO</b> MODE					
<b>FROST PROTECTION</b> MODE					
<b>NO HEAT</b> MODE	--				
<b>AUTO</b> MODE (2 variants)	 		 WITH PLC		 WITH PILOT WIRE

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**NOTE:** A **NO-HEAT** or **FROST PROTECTION** mode command from a programming base unit overrides the **COMFORT**, **ECO** and **FROST PROTECTION** operating modes described above.

**ON** Indicates that the radiator is heating



Indicates that the **TIMER** or **TIMERPROG** function is active



Indicates that the **ELECTRONIC LOCK** is active

## 2.2 Basic functions

Select your desired operating mode by pressing the **MODE** button. You can adjust your room temperature setting by pressing the **+** and **-** buttons (see section 2.1).


### TIMER

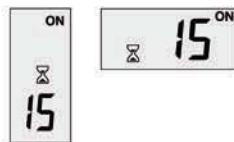
This function allows you to operate your appliance at full power for a preset period. Press the  button to initiate this function from any mode except **NO-HEAT** mode.

The **ON** and  symbols will then be displayed.

Press the **+** and **-** buttons to adjust the timer duration in 15 minute increments to a period of between 15 and 90 minutes.

The time remaining will scroll across the display until the end of the preset period.

Press the  button at any time to exit this function..




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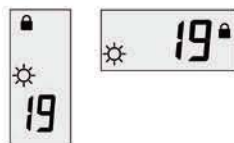
### ELECTRONIC LOCK

Use of this function prevents any unwanted operation of the keypad.

Press the **+** and **-** buttons together for 5 seconds to lock the keypad and prevent any inadvertent change of mode or setpoint temperature.

The  symbol will then appear.

To unlock, press the **+** and **-** buttons together for 5 seconds.






**NOTE:** This function will not block mode change commands from a *Pilot Wire* or *PLC* unit.

## 2.3 Advanced functions


### TIMERPROG


Use this function to activate the **TIMER** at a set time every day.

Launch the **TIMER** function and set the timer duration (see section 2.2). Then keep the  button pressed for 5 seconds until the  symbol flashes.

The **ON** and  symbols will then be displayed.

Your appliance will automatically operate on full power every day starting half an hour before the time the **TIMERPROG** function was first activated. The time remaining will scroll across the display until the end of the preset period.

Press the  button to exit the **TIMER** function.

 will flash to indicate that the Timerprog function is active. To deactivate, press the **MODE** button until **NO-HEAT** mode is selected..

| **NOTE:** the **TIMERPROG** function will be deactivated if the power supply is interrupted.

### CALIBRATING AND DISASSOCIATING THE COMFORT AND ECO TEMPERATURES

The calibration facility can be used to correct any variation between the room temperature achieved by the appliance and the setpoint temperature requested at the thermostat.

To do this, enter the variation between the temperature measured by a thermometer in the room and the temperature achieved in **COMFORT** mode.

Press the **MODE** button for 5 seconds.

The thermostat will then allow the measured temperature reading to be changed by up to **+** or **- 5°C** in 0.5°C increments by pressing the **+** and **-** buttons..

Then press the **MODE** button to move to the disassociate function.

Press the **+** and **-** buttons to select:

*OF:* The **ECO** mode temperature is your chosen **COMFORT** mode temperature minus 3.5°C.

*ON:* The **ECO** mode temperature can be set independently of the **COMFORT** mode temperature by pressing the **+** and **-** buttons.

Press the **MODE** button to exit.

## 2.4 Programme function (Auto mode)

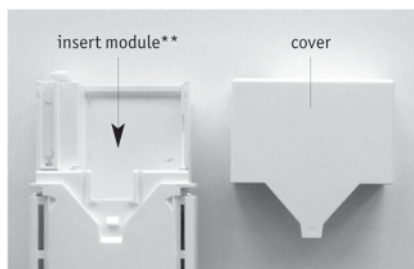
### OPERATION WITH A *PILOT WIRE* PROGRAMMING BASE UNIT\*\*

Your appliance can be controlled remotely by a *Pilot Wire* programming base unit\*. Once connected (see section 1.3), the appliance will recognise the programming base unit automatically.

### OPERATION WITH A *PLC* PROGRAMMING BASE UNIT\*, *PLC ASSOCIATION/DISASSOCIATION*



Your appliance can be controlled remotely by a *PLC* (Powerline Carrier) programming base unit\* using the X2D protocol.


To use this facility, remove the cover and insert the Powerline Carrier interface module\*\* in its place.



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Regardless of what the display is showing, press the ⌚ button for 10 seconds.

 will then be displayed and  will flash: your appliance is waiting to receive an association signal from a *PLC* unit (to activate the association signal, see the instructions supplied with the unit). Then press the ⌚ button once.

 will then be displayed permanently: your appliance is now associated with this transmitter unit. Press the ⌚ button to exit..

To disassociate your appliance from this *PLC* unit, press the ⌚ button for 10 seconds, regardless of what the display is showing.

 will flash. Press the ⌚ button for 25 seconds until  appears: your appliance is now disassociated from this *PLC* unit.

**NOTE:** the *PLC* programming base unit must not be emitting any signal during the disassociation process.

\* Not supplied — \*\* Optional, contact your installer or dealer

### 3. Getting the most out of your appliance

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Your electrical appliance is filled with a circulating fluid and is delivered ready to use. It is plugged and filled with a high-performance thermal mineral oil before leaving the factory. This fluid requires no special maintenance. Any repair work requiring the appliance to be opened should only be carried out by the manufacturer or their after-sales service department, which should also be contacted in the event of an oil leak.

When disposing of the heating appliance, comply with the regulations in force on the disposal of oil. Fluid obtained when the appliance is emptied must be taken to a specialist used-oil disposal facility.

As soon as the appliance is heating, you will notice certain differences compared to a standard electrical heating system:

- The electric heating element heats the fluid, which gradually and naturally starts circulating in your appliance.
- The inertial properties of the fluid are such that it takes at least ten minutes for the appliance to reach its optimum surface temperature.
- This inertia, however, also ensures consistent and sustained heating even when the element is no longer powered.
- It is normal that the top of the appliance is less hot than the rest of the heating body. This is because the appliance is not completely filled to allow the fluid to expand when it heats up. As the air inside is naturally located at the top of the appliance, it is normal for some of the upper parts of the appliance to feel less hot.
- Your appliance has a sizeable heating surface which enables it to regulate the heat it generates according to requirements. It is therefore normal that at milder times of the year, when the appliance is turned down, variations in the radiator's surface temperature are more noticeable.

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## 4. Taking care of your radiator

Before carrying out any maintenance operation on your appliance, ensure that it is switched off. Press the **MODE** button repeatedly until **NO-HEAT** ( — — ) mode is selected..

High-quality materials and surface treatment protect your appliance against corrosion and impacts.

To maximise the service life of your appliance, we recommend you take the following precautions:

- Never use abrasive or corrosive products on the outer surfaces of the appliance; use warm, soapy water.
- Use a dry cloth (without solvent) to clean the control unit.

### **MAINTAINING THE VENTILATION INLETS**

To ensure that your appliance operates normally, it is essential to ensure that dust or any other substance is not allowed to accumulate and block the ventilation inlets situated on the housing at the rear of the appliance. If this happens, you must clean the inlets carefully using a brush or other implement.

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## 5. In case of fault

If your appliance stops working, check that:

- your appliance is properly connected to an appropriate power supply (see section 1),
- the thermostat is heating the appliance as it should (see section 2).

The **ON** symbol is shown on the LCD display.

Test that the appliance is heating by initiating the **TIMER** function (see section 2.2): the **ON** symbol should be displayed and after a few minutes you should be able to feel the appliance heating up.

If the power cable is damaged, for safety reasons it must be replaced by the manufacturer, the manufacturer's after-sales service department or a similarly qualified person.

### AFTER-SALES SERVICE

If your appliance stops working or you require spare parts, contact your installer or dealer.

Prior to making contact and to ensure your problem is dealt with quickly and effectively, please make a note of:

- the details shown on the appliance nameplate (see section 1.3), the sales reference for your appliance shown on your dated purchase invoice.

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### GUARANTEE *(see general conditions of sale for the relevant country)*

Your radiator complies with Directive 2004/108/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility (EMC) and with European standards EN 60335-1 / 60335-2-30 / 60335-2-43.

### CANCELLATION OF THE GUARANTEE

The guarantee shall not apply if the appliance is installed, used or maintained in a way that does not comply with standards in force in the relevant country, good professional practice, or the manufacturer's instructions. For all other questions regarding the guarantee, please contact your installer or dealer.