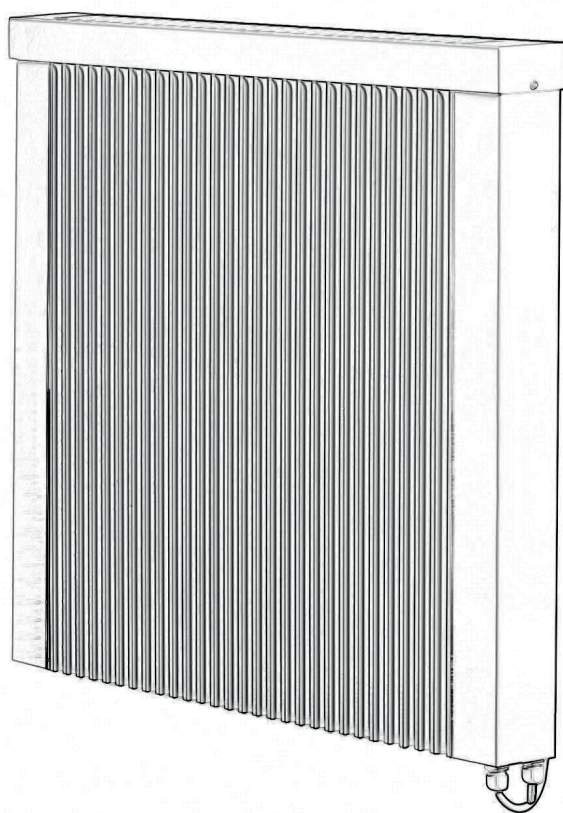


Ecostrad Ecowärme – Wall Mounted Electric Radiator

Installation and Operating Instructions



Types

- CHM 500 TDI
- CHM 1000 TDI
- CHM 1500 TDI
- CHM 2000 TDI
- CHM 1000 H TDI



Please read attentively and keep in a safe place
Subject to alterations
Version: May 2018

About

The Ecostrad Ecowärme is a modern electric radiator with a traditional design. The Ecowärme provides an efficient heating solution for many indoor living areas. Ecowärme radiators are designed to be used continuously, whether as your main heat source or as a supplementary system.

Quality

Prior to dispatch, all our products undergo an extensive function, safety and quality test. We guarantee that these products comply with all currently applicable international, European and UK safety standards and rules. You can see this in the labelling of our products with the well-known certification marks: TÜV-GS, SLG-GS, Keymark, and CE. Our heaters are evaluated in accordance with the internationally applicable IEC-regulations. The manufacture of our heaters is constantly supervised by a state-accredited test centre.

Safety

Caution: some parts of the product can become very hot and may cause burns if touched. Pay particular attention when children and vulnerable adults are present.

- This radiator can be used by children aged from 8 years and above.
- The radiator can be used by persons with reduced physical, sensory or mental capabilities only if they are supervised or given instructions on safe use and understand the hazards involved.
- This device is not a toy for children to play with. Cleaning and user maintenance should not be carried out by children without supervision.
- Parents and guardians have a duty of care when using radiators with their children.
- Children under the age of 3 are to be kept away unless they are continually supervised. Children between the age of 3 and 8 are only allowed to switch the radiator on or off if they are supervised or given instructions on safe use and understand the hazards involved, provided that it has been placed or installed in its intended normal operating position.

- Children between the age of 3 and 8 shall not plug in, regulate or clean the radiator or perform user maintenance.
- Never cover the radiator. Do not put any flammable objects onto the radiator or near it.
- The radiator must not be operated in rooms where there is a risk of fire or explosion caused by dust, gases, or vapours. Avoid humid surroundings.
- This radiator should not be used in bathrooms or other wet rooms.
- When plugging the radiator into a power outlet, only use a safety-socket installed by a certified electrician. The radiator is a Class I device that cannot be installed directly in front of or under a wall power outlet.
- If the power cable of the radiator is damaged, it must be replaced by the manufacturer, its after-sales service, or a similarly qualified person, in order to avoid hazards.
- If you decide to have the radiator hardwired, an all-pole separator with a minimum 3mm contact opening width must be built in. This must be performed by a qualified electrician.
- If you detect damage or an improper function, disconnect the radiator from the mains supply. Report the case to our customer service department as soon as possible.

Safety Distances

To avoid a fire hazard, keep the following safety distances when mounting the radiator:

Between the sides of the radiator and any masonry		5cm
Between the sides of the radiator and flammable materials		10cm
From the radiator to the floor		8cm
From the top of the radiator to any covering above	If flammable (i.e. window sill)	15cm
	If non-flammable (i.e. brick alcove)	10cm

Technical data

Ecowärme electric radiators have protection class I and are designed for a mains voltage of 230V, 50Hz. The radiators are IP20 rated and should not be used in bathrooms. All radiators in the series come equipped with a digital thermostat and 24/7 programmer.

Model	Orientation	Power (Watts)	Dimensions (mm)	IP Rating
CHM500 TDI	Horizontal	500	380 x 630 x 70	IP20
CHM1000 TDI	Horizontal	1000	680 x 630 x 70	IP20
CHM1500 TDI	Horizontal	1500	980 x 630 x 70	IP20
CHM2000 TDI	Horizontal	2000	980 x 630 x 70	IP20
CHM1000H TDI	Vertical	1000	1240 x 380 x 70	IP20

Installation

Please observe all safety instructions given in this manual.

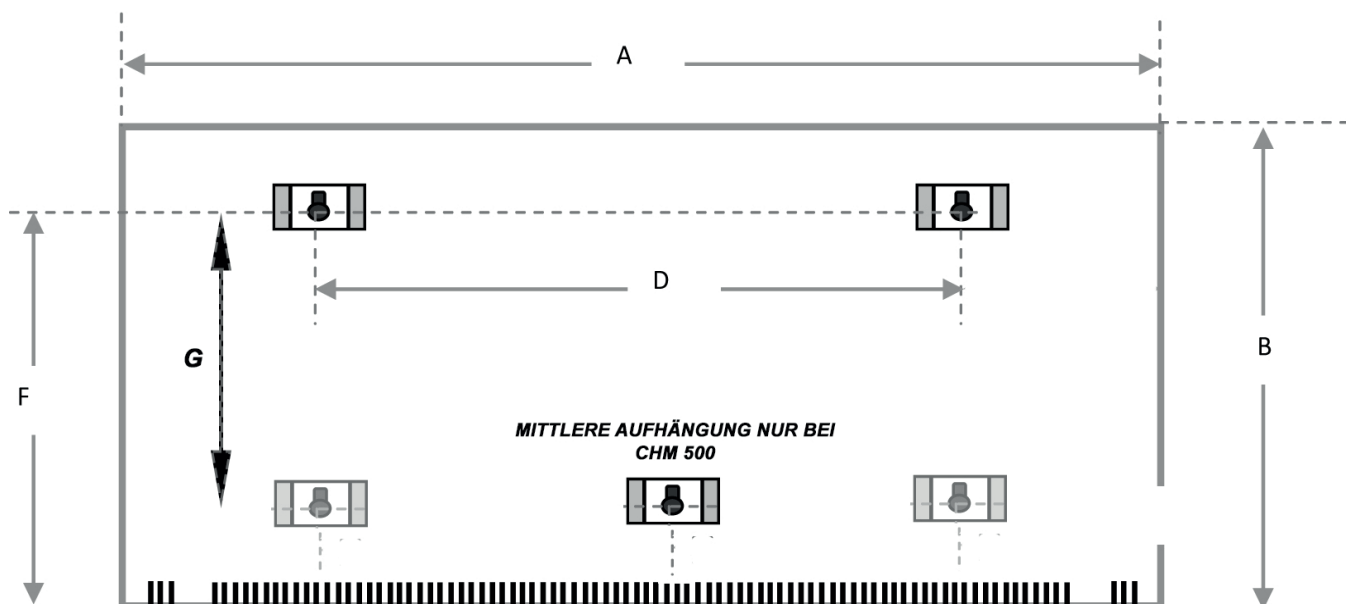
The best place to mount the Ecowärme is on a load-bearing wall. If installing beneath a window, make sure any curtains will not cover the radiator. Always observe the minimum safety clearances given above.

Fitting your radiator correctly is an integral part of the final heat delivery. Please use all provided fixings and install as per these instructions.

Instructions

1. Remove all packaging, making sure no packaging residue remains on the radiator.
2. Drill four holes as per the distances in the table below.
3. Mount the brackets on the wall, using the provided screws.
4. Hang the radiator on the brackets.

Location of drill holes



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Model	Power [Watt]	Width A [mm]	Hight B [mm]	Deep C [mm]	D [mm]	F [mm]	G [mm]
CHM 500	500	380	630	100	186	521	445
CHM 1000	1000	680	630	100	336	506	430
CHM 1500	1500	980	630	100	500	506	430
CHM 2000	2000	980	630	100	500	506	430
CHM 1000 H	1000	380	1240	100	186	521	445

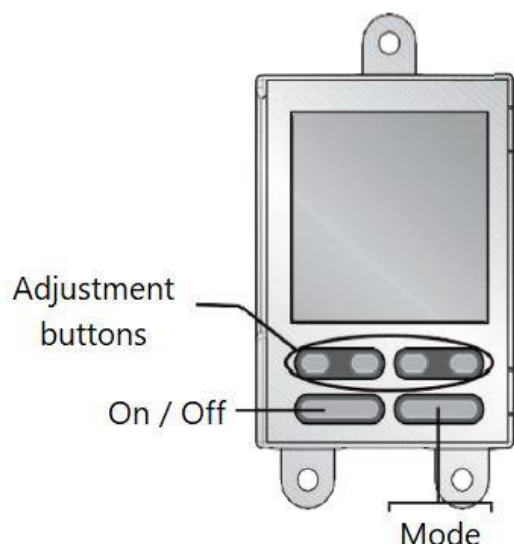
Using the radiator

As soon the radiator has been mounted and plugged into a socket, it is ready for use! Please see the instructions below for help configuring and programming the thermostat.

In the event the heater does not heat properly, please check first whether there is a proper power supply – whether the device is plugged in, socket switched on, and mains correctly wired with undamaged fuse.

If the heater still does not work properly, disconnect the device from the power supply and inform our customer service department. Interventions and repairs on the device may only be performed by authorized agents.

Digital Control Display – TDI Thermostat



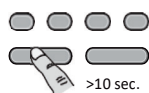
The TDI Thermostat is used to control the Ecostrad Ecowärm.

Integrated into the side of the radiator, the TDI Thermostat can be used to set temperatures, interact with the programming capabilities, and make various adjustments.

See below for an outline of the Ecowärm's control features.

Configuration

When in Off mode, press and hold down the On/Off button for 10 seconds to access the first configuration menu.

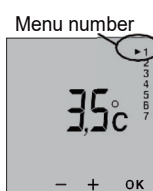


Menu 1: ECO set-point adjustment

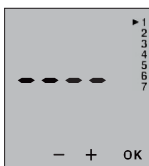
By default, Economy setting = Comfort setting - 3.5°C.

This reduction can be set between 0 to -10°C, in steps of 0.5°C.

To adjust the reduction, press on the + or - buttons then press OK to confirm and go to the next setting.



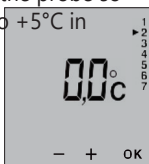
To allow the user to modify the set-point, press on the + button in Economy mode until "----" is displayed on the screen.



Menu 2: Correction of the measured temperature

If there is a difference between the temperature noted (thermometer) and the temperature measured and displayed by the unit, menu 2 acts on the measurement of the probe so as to compensate for this difference (from -5°C to +5°C in steps of 0.1°C).

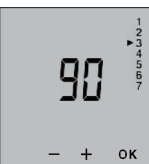
To modify, press on the + or - buttons then press OK to confirm and go to the next setting.



Menu 3: Backlight time out setting

The time out can be adjusted between 0 and 225 seconds, in steps of 15 seconds (set on 90 seconds by default).

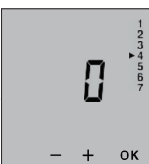
To modify, press on the + or - buttons then press OK to confirm and go to the next setting.



Menu 4: AUTO mode temperature display option

- 0 = Continuous display of room temperature.
- 1 = Continuous display of set-point temperature.

To modify, press on the + or - buttons then press OK to confirm and go to the next setting.



Menu 5: Open Window detection

The detection of an open window occurs when the room temperature falls rapidly.



In this case, the display shows a flashing * pictogram, as well as the frost protection set-point temperature.

0 = Open window detection is deactivated

1 = Open window detection is activated

To modify, press on the + or - buttons, then press OK to confirm and to go to the next setting.

Menu 6: Adaptive start control

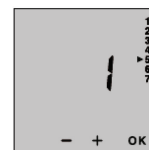
This feature enables to reach the set-point temperature at a set time.

When this feature is activated, the display shows a flashing *.

0 = Adaptive start control deactivated

1 = Adaptive start control activated

To modify, press on the + or - buttons, then press OK to confirm and to go to the next setting.

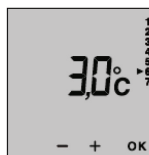


Adjusting the time-temperature-slope (when adaptive start control is activated)

From 1°C to 6°C, in steps of 0.5°C.

If the set-point temperature is reached too early, then a lower value should be set.

If the set-point temperature is reached too late, then a higher value should be set.



Menu 7: Product number

This menu allows you to view the product number.

To exit the configuration mode, press OK.



Time Setting

In Off mode, press the **MODE** button.
The days flash.

Press + or - to set the day, then press OK to confirm and go on to set the hour and then the minutes.

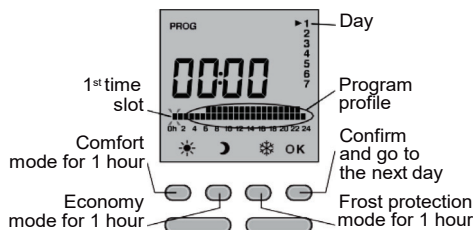
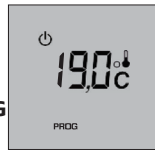
Press the On/Off button once to exit the setting mode.



Programming

When starting up, the "Comfort mode from 8am to 10pm" program is applied to all the days of the week.

To change the programming, press the **PROG** button in Off or AUTO mode.
The 1st time slot flashes on and off.



Quick programming:

To apply the same program to the following day, press and hold the OK button for approximately 3 seconds until the program of the following day is displayed.
To exit the programming mode, press on the On/Off button.

Use

The Mode button allows you to select the different operating modes: ☀ Comfort, 🌙 Economy, ❄ Frost protection, programming **AUTO** mode.

Pressing the **i** button gives you the temperature of the room or the set-point temperature, according to your configuration settings in menu 5.

If the **ON** icon is displayed, this means that the device is in heating demand mode.

Continuous Comfort

Pressing and holding the + or - buttons lets you change the current set-point (+5 to +30°C) in steps of 0.5°C.



Continuous Economy mode

The Economy set-point is indexed according to the Comfort set-point. The reduction can be modified in the configuration settings for menu 1.



Modifying the Economy set-point

The set-point can be modified if it was authorized in the configuration settings in menu 1 ("----").

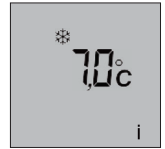
Pressing and holding the + or - buttons lets you change the current set-point (+5 to +30°C) in steps of 0.5°C.



Use

Continuous Frost Protection

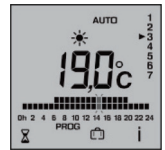
Pressing and holding the + or - buttons lets you change the current set-point (+5 to +15°C in steps of 0.5°C).



AUTOMATIC mode

In this mode the device follows the programming set.

To modify the programming, press the **PROG** button once.



Timer mode

To set a set-point temperature for a certain period of time, press on the ⌚ button once.

To set the temperature you want (+5°C to +30°C, use the + and - buttons, then press OK to confirm and go on to set the duration.



To set the duration you want (30 min to 72 hours, in steps of 30 min, use the + and - buttons (e.g. 1 hr 30 min, then press OK.

To cancel the timer mode, press on the OK button.

Absence mode

You can set your device to Frost protection mode for a period between 1 and 365 days, by pressing on the 📅 button. To set the number of days of absence, press on the + or - buttons, then confirm by pressing OK.



To cancel this mode, press on the OK button again.

Locking the keypad

If you press and hold the central buttons simultaneously during 5 seconds, it enables you to lock the keypad.



A key symbol appears briefly on the display. To unlock the keypad, press simultaneously on the central buttons.

Once the keypad is locked, the key symbol appears briefly if you press on a button.

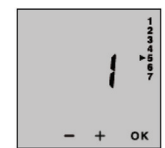


Open Window detection

The detection of an open window occurs when the room temperature falls rapidly.

Open window cannot be detected in OFF-Mode.

This feature can be temporarily interrupted by pressing on ❄.



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Technical characteristics

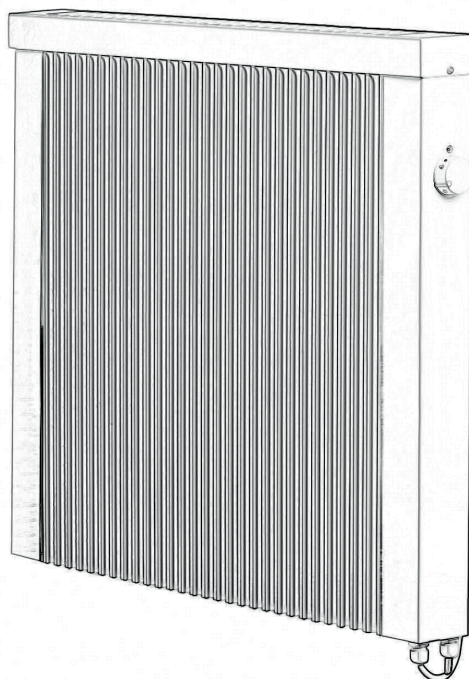
- Power supplied by the power card
- Dimensions in mm (without mounting lugs): H = 71.7, W = 53, D= 14.4
- Screw-mounted
- Install in an environment with normal pollution levels
- Storage temperature: -10°C to +70°C
- Operating temperature: 0°C to +40°C

Reporting a problem

The Ecostrad Ecowärme was carefully manufactured and checked repeatedly before dispatch. Nevertheless, in the unlikely event you encounter a problem, or have questions concerning handling, please feel free to contact us.

Ecostrad
Firecrest House
Lingerfield Business Park
Knaresborough
HG5 9JA
After-sales service:
T: 0330 300 4444

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Eco-Design Requirements

From Jan 1st 2018, the EU-conformity of these devices is additionally bound to fulfillment of the Eco-Design Requirements 2015 /1188. Installation and starting up of the equipment is only permitted in conjunction with external room temperature controllers which fulfill this function:

- Electronic room temperature control depending on the weekday

And at least one of the following functions:

- Room temperature control with detection of an opened window
- Remote control option
- Adaptive start control

The following room temperature control systems supplied by Ecostrad

- TDI thermostat

fulfil the following requirements and thus the ErP Directive:

- Electronic room temperature control depending on the weekday
- With detection of an opened window
- Adaptive control of the heating start

Output Guidelines

Type: CHM

Designation	Sym- bol	Rate								Unit
		CHM 500	CHM 1000		CHM 1500		CHM 2000			
Nominal thermal output	P _{nom}	0.5	1.0		1.5		2.0			kW
Minimal thermal output (indicative)	P _{min}	0.5	1.0		1.5		2.0			kW
Maximum continuous thermal performance	P _{max,c}	0.5	1.0		1.5		2.0			kW
Auxiliary current consumption										
At nominal thermal output	eI _{max}	0.5	1.0		1.5		2.0			kW
At the minimum heating capacity	eI _{min}	2	2		2		2			W
At the standby mode	eI _{sb}	0.47	0.47		0.47		0.47			W
Contact information:	Firecrest House Lingerfield Business Park Knaresborough HG5 9JA									

Designation	Unit
Type of heat supply, only for electrical storage heaters in rooms (select one type)	
Manual thermal charge control, with integrated thermostat	NO
Manual thermal charge control with acknowledgement of the room inside and /or outside temperature	NO
Electronic charge control with acknowledgement of the room inside and /or outside temperature	NO
Heating power supported with a fan	NO
Type of heating power / room temperature Control (select one type)	
Single-stage heating capacity; no room temperature control	NO
Two or more manual stages, no room temperature control	NO
With mechanical room temperature control	NO
With electronic room temperature control	NO
Electronic temperature control in the room, depending on the time of day	NO
Electronic temperature control in the room, depending on the weekday	YES
Other control options (multiple choice is possible)	
Room temperature control with presence detection	NO
Room temperature control with detection of an opened window	Yes
With remote control option	No
With adaptive start control	Yes
With limitation of heating time	NO
With a black lamp sensor	NO

Technical alternations, errors, omissions and errata reserved. Dimensions are stated without warranty.

Updated: May 18