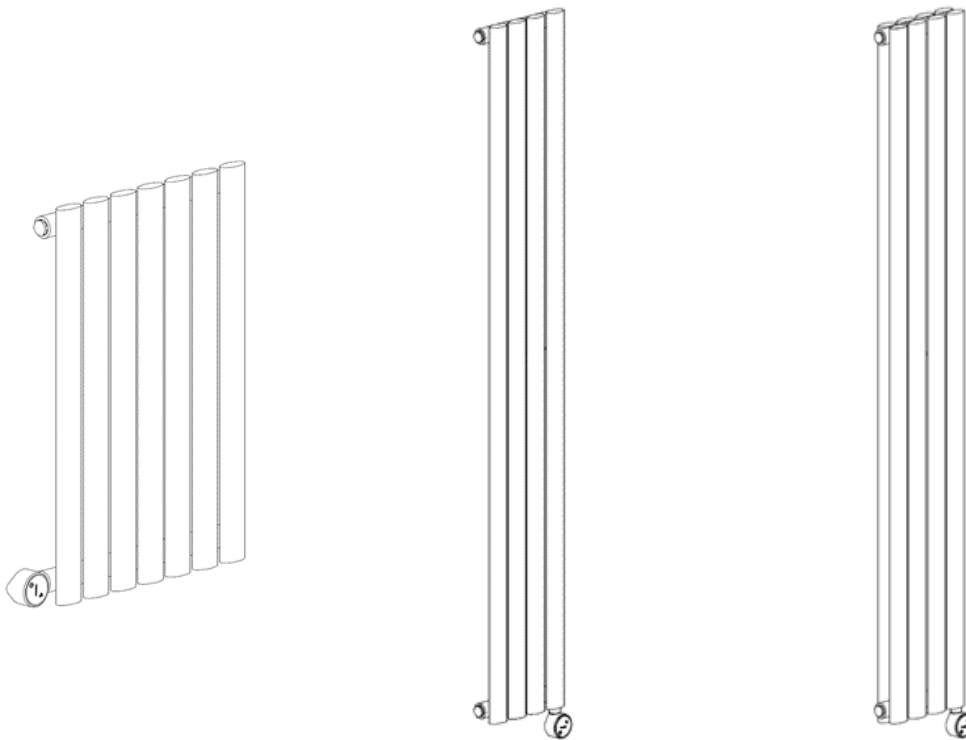


ecostrad

INSTRUCTION MANUAL

Ecostrad Designer Electric Radiators ALLORA



PLEASE READ AND SAVE THESE INSTRUCTIONS



Symbols



Warning

This symbol indicates a hazard with an average risk level which, if not avoided, could result in serious injury or death.



Warning of electrical voltage

This symbol indicates danger to the life and health of persons due to electrical voltage.



Hot surface

This symbol located on the device indicates that its surfaces are hot during and immediately after operation. Hot surfaces should not be touched: danger of burns.



Do not cover

This symbol indicates that it is prohibited to hang objects (such as towels, clothes etc.) on the device such that the electric components could become covered. To avoid overheating and fire hazards, ensure the electric components are never covered.



Observe instructions in manual

This symbol located on the device indicates that instructions in the operating manual must be observed when installing and using the device.

Contents

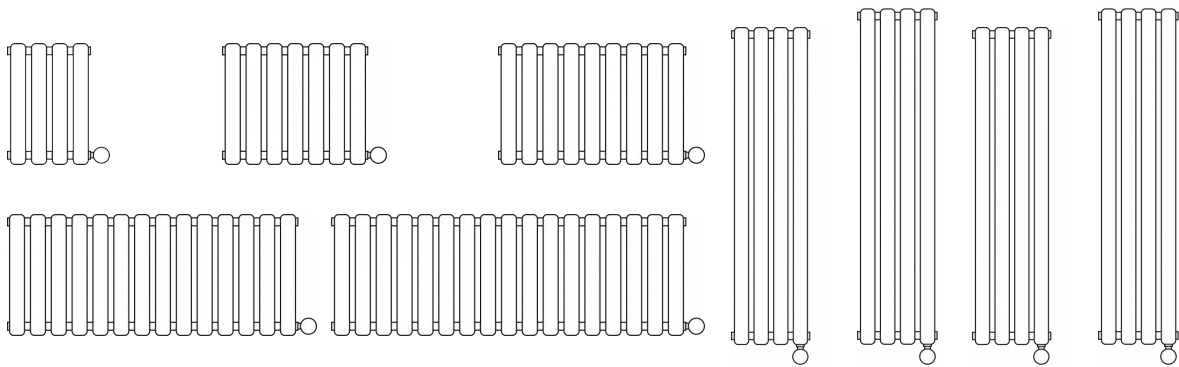
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1 | About the Product

This manual describes the Ecostrad Allora Designer Radiator and details how to install and use the product. It is important to thoroughly review this manual before using the product.

For **technical advice** or help concerning the Ecostrad Allora Designer Radiator, contact the retail establishment or distributor from which the product was purchased.

Heat Performance



The Ecostrad Allora is a thermal-fluid filled radiator designed to be fitted with the Ecostrad iQ WiFi Heating Element. This heating element, when inserted into the Ecostrad Allora, will heat to set programs and control the room temperature to ensure you are always warm when you want to be.

To do this, the heating element heats the thermal fluid in the radiator. This heated liquid rises through the unit, forcing colder liquid towards the element and setting off a convection cycle. This process of rising and falling liquid spreads heat throughout the radiator.

Each size of Ecostrad Allora is a self-contained unit with its own, unique, thermal “ecosystem” dictated by the behaviour of these natural convection currents. This means you can expect more variance between sizes of designer electric radiators than you would find in central heating systems, where the radiators are merely vessels in one, larger, pressurised system.

For more information about how designer electric radiators work, and how to get the best out of your electric heating system, see section **4-2**.

Quality

Here at Ecostrad, we pride ourselves on our strict quality control to ensure only the best products arrive at your home. However, the Ecostrad Allora is constructed using some manual processes, and this human touch means each radiator is unique. Some idiosyncrasies in finish can be expected. These differences should not impair the heating performance, durability, or visual impact of your Ecostrad Allora.

2 | Warnings & Precautions

Read all safety warnings and all instructions in this manual carefully before using or installing the radiator. Failure to follow the warnings and instructions may result in electric shock, fire, serious injury, or all of the above. Save all warnings and instructions for future reference.

Check that all ancillary components are present and that the product has not suffered any damage during transit.



NOTE - This radiator is supplied with an electric heating element and is for use with an electric supply only. The product cannot be used as part of a central heating system or as a dual source radiator. This radiator has been pre-filled and adjusted for electric use. No filling is required. Do not remove any of the seals as this might cause leakages and void the warranty. Improper adjustment of the fluid level in the radiator can cause malfunction.

The radiator can be used for heating throughout the home provided it is fitted with and controlled via the supplied heating element. Consult the manual of the supplied element for full safety, installation and functionality details.



Warning

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience or knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure they do not play with the appliance.



Warning

This appliance 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 appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.



Warning

As with conventional radiators, this electric radiator will get hot to the touch during operation. If the radiator is left on full power for a prolonged period of time the surface temperature can rise to 70 °C (+/- 5 °C). Particular attention should be given where children and vulnerable adults are present.





Warning

When drilling or fixing into walls, floors or ceilings it is essential you check for pipes and wires before commencing. Please ensure that you wear all necessary personal protective equipment.

- The device must not be located immediately below an electrical socket outlet.
- The electronic components of the product must not be covered. Covering the heater such that the electronic components would be covered may cause the unit to overheat. If there is any risk that the electronic components could become covered, do not cover the radiator.

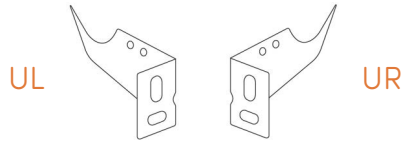
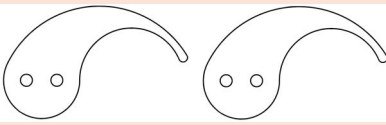
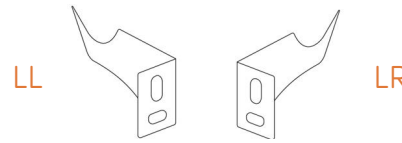


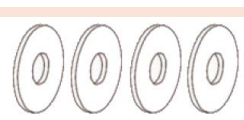





3 | Installation

3-1 | Components

Before beginning installation, check that all fixings in **Table 1** are supplied. The radiator should only be mounted with the manufacturer's fixings.

Table 1 | Fixings and components

Description		Quantity
Upper Brackets - Upper Left (UL) & Upper Right (UR)		2
Safety Hooks		2
Lower Brackets - Lower Left (LL) & Lower Right (LR)		2
Bracket Guards		4
Wall Plugs		4
Washers		4
Wall Screws (ST6x65)		4
Locking Screws		4
Element*		1

*The heating element is packaged separately from the radiator and may arrive in a separate delivery.

3-2 | Fitting the element

Full instructions for fitting the element can be found within the element manual. The user must ensure installation is in accordance with the following:

- The element must be fitted at the bottom of the radiator on the side. It may be fitted on the left or right side.
- The heating element must not be connected to the electric supply until it is secured inside the radiator and correctly orientated.

- The radiator is filled with an anti-freezing liquid exactly to the level required by the element. Ensure that no liquid is lost during installation.
- Do not hang the radiator with the heating element at the top (**Figure 1**).

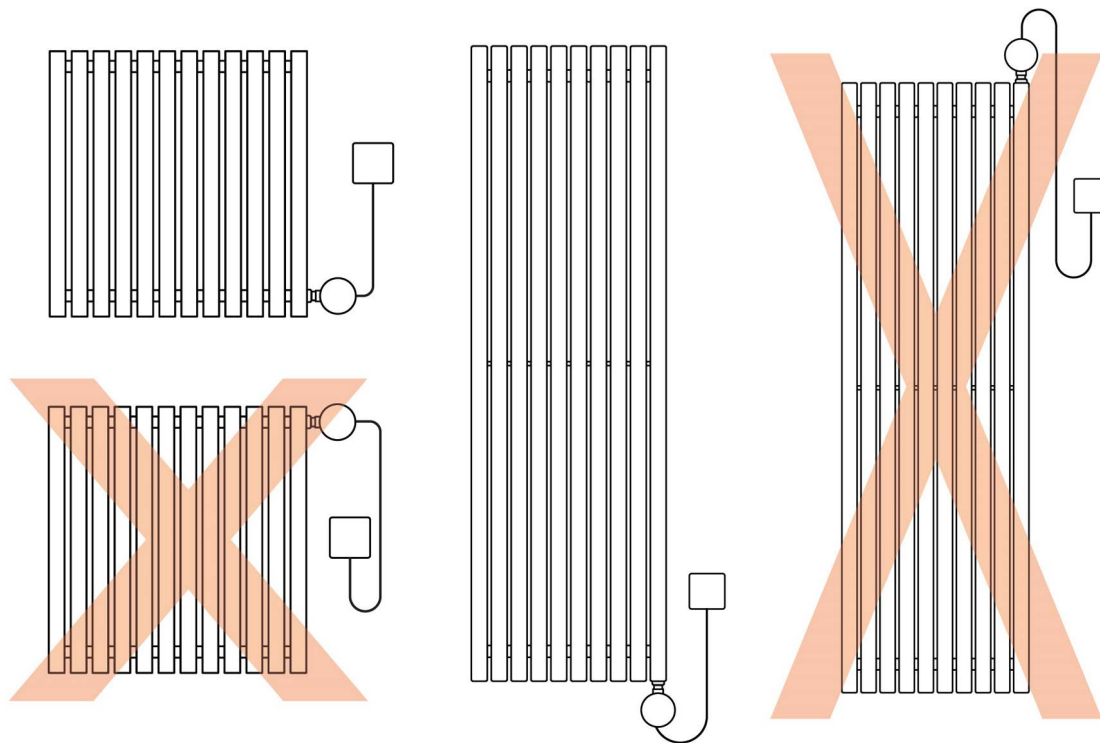


Figure 1 | Correct and incorrect element positioning

3-3 | Wall mounting

Tools required for wall mounting:

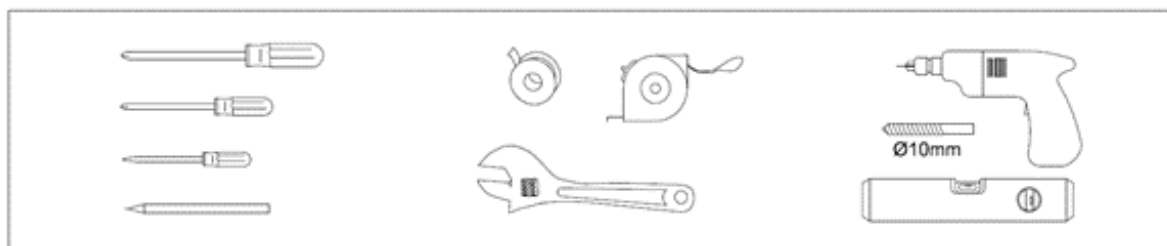


Figure 2 | Tools required

NOTE - these tools are not provided with the radiator.

1. Check that the wall is strong enough to hold the weight of the pre-filled radiator. The fixings supplied are suitable for use in solid masonry. For any other wall type you will need to source appropriate fixings. If fitting to a plasterboard wall, either fit directly to the wooden struts or otherwise strengthen the wall; do not fix through plasterboard alone.

If you are fitting the radiator to a stud wall and struggling to line the Bracket positions up with the studs, swapping the Left or Right Brackets so that the back plates flip to the other side may give you the necessary flexibility. It may also be useful to choose a custom mounting position - see step 5. Additional Brackets, if required, are available on request.

2. Fit the Safety Hooks onto the Upper Brackets (UR & UL) as below:
 - a. Line up the holes of the Safety Hook with the holes of the Upper Left Bracket.
 - b. Insert a Locking Screw into the back hole, but do not tighten fully.
The Safety Hook should be held in place but should still be able to move up and down.
 - c. Hinge the Safety Hook up to create an opening into which the radiator collector bar can slot.
 - d. Repeat the process above for the Upper Right Bracket.

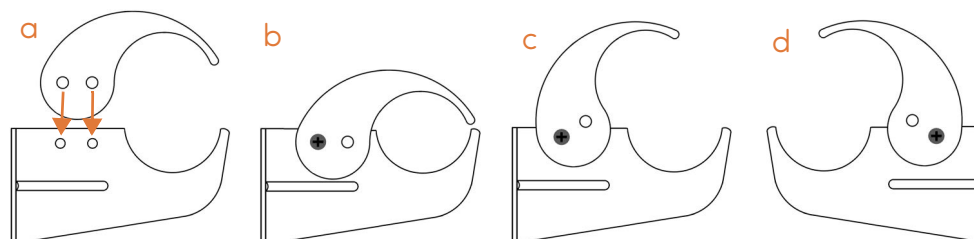


Figure 3 | Process for attaching Safety Hooks to Upper Brackets

3. Place the Bracket Guards in the Brackets.

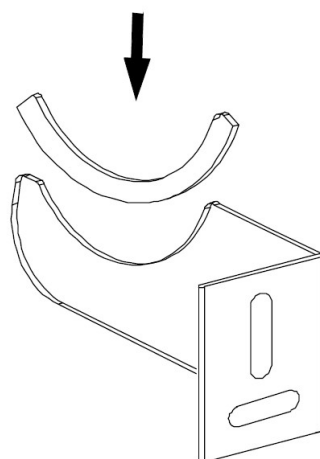


Figure 4 | Fitting Bracket Guards

4. Choose a mounting position and affix the Brackets accordingly.
 - a. Use the template provided in the box to mark the Bracket positions on the wall (see **Figure 5**).
 - b. Using a 10mm drill bit, drill four holes in the marked locations and push the Wall Plugs inside.
 - c. Position the Upper and Lower Brackets over the holes and fix in place using the Washers and Wall Screws. The Brackets should slot between the bars with their mounting plates facing together: with the Left Brackets on the left and the Right Brackets on the right as you face the radiator (see **Figure 5**, page 10). Make sure that the Upper Brackets (with the Safety Hook attached) are at the top of the radiator, and the Lower Brackets are at the bottom.

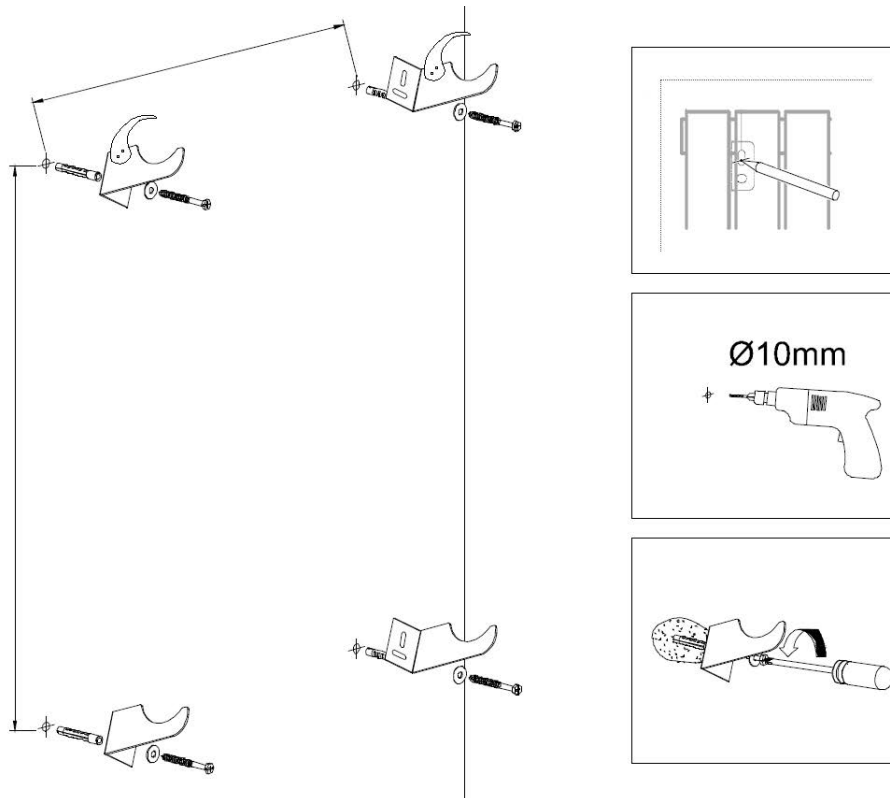


Figure 5 | Fixing the wall brackets

5. If you require your Left and Right Brackets to be spaced closer together or farther apart, for example when affixing to studs in a stud wall, you can choose custom Bracket positions.

- a. Choose the point where the Brackets will sit between the radiator bars, according to your requirements.
- b. The Brackets should slot between the bars with their mounting plates facing together: with the Left Brackets on the left and the Right Brackets on the right as you face the radiator. Make sure that the Upper Brackets (with the Safety Hook attached) are at the top of the radiator, and the Lower Brackets are at the bottom.
- c. Use a tape measure, spirit level and the positions decided in step **a** above to mark the Bracket positions on the wall (see **Figure 6**).
- d. Using a 10mm drill bit, drill four holes in the marked locations and push the Wall Plugs inside.
- e. Position the Brackets over the holes and fix in place using the Washers and Wall Screws.

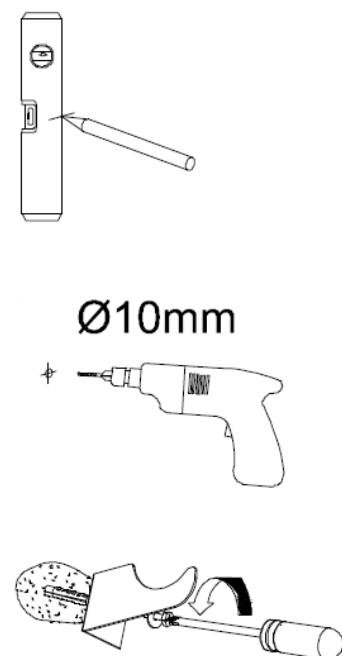


Figure 6 | Fixing without template

6. The radiator is now ready to mount. Lift the radiator onto the Brackets as in **Figure 7**.

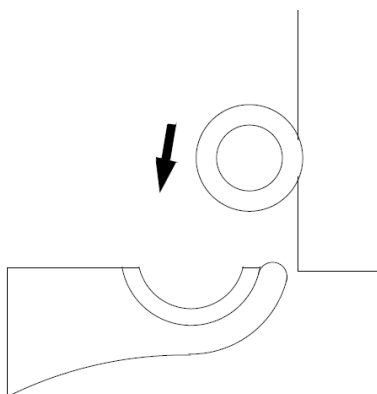


Figure 7 | Lift radiator onto wall

7. Now, the Safety Hooks can be secured.
- Close the Safety Hook over the radiator collector bar (see **Figure 8**).
 - Insert the second Locking Screw into the front hole of the bracket.
 - Tighten both screws.

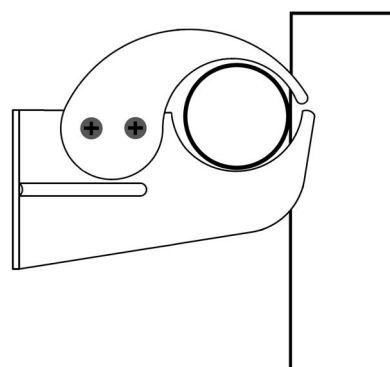


Figure 8 | Securing Safety Hook

3-4 | Connecting the element

Wiring the heating element to the mains is a job for a qualified electrician. Please consult the element manual for full instructions and safety warnings, paying special consideration to the following:

- The radiator and its element are designed to be used under AC 230 voltage and should be connected to the household fixed wiring by a qualified electrician in accordance with national wiring regulations. Risk of electric shock.
- Do not install the radiator under or in front of a power socket or connector box.
- The power lead must be connected to a socket which must be at least 25cm from the floor. Do not connect the element to the power supply until it is secured within the radiator and correctly orientated, as demonstrated in **Figure 1**.



3-5 | Bleeding the radiator

For best results, it is recommended to bleed the radiator after 30 minutes of heating.

To do this:

- Check that you have installed the radiator so that the bleeding valve is at the top of the radiator.
- Insert a screwdriver into the valve and unscrew it.
- When liquid begins to come out of the valve, screw it closed again.

Use a cloth or a container to catch and dispose of any leaking liquid.

4 | Using Your Ecostrad Radiator

4-1 | First use

Once your radiator is installed and the element connected to the power by a qualified electrician, it is ready to heat your home.

Banging or creaking noises are not unusual during the first heating phase of the radiator. This is because the steel can become very cold during transit, and when heat is introduced to cold metal, the metal expands quickly, causing expansion noises. This may persist for the first few days of heating as the product acclimatises to your home.

Bleeding

After the first 30 minutes of heating, it is recommended to bleed the radiator. To do this:

1. Check that you have installed the radiator so that the bleeding valve is at the top of the radiator.
2. Insert a screwdriver into the valve and unscrew it.
3. When liquid begins to come out of the valve, screw it closed again.

Use a cloth or a container to catch and dispose of any leaking liquid.

4-2 | General usage

Designer Electric Radiators marry together the sleek aesthetics and pleasant heating of modern central heating radiators with the controllability of electric.

However, although the room heating performance of a designer electric radiator is similar to that of a central heating radiator, the movement of heat across the units themselves can feel a little different. That is because each radiator in a central heating system is simply a vessel in one pressurised system: heated water is pushed through the radiator, ensuring an even surface temperature.

For designer electric radiators, which are self-contained, surface temperatures take longer to even out; the flow of hot liquid depends on internal convection currents spreading heated liquid across the unit.

The “dynamic” nature of these products means the heat up behaviour is less consistent than what you may have experienced with other, static electric heaters. However, this is perfectly normal, and allows you to enjoy the benefits of electric heating as well as the varied designs of steel, fluid-filled radiators.

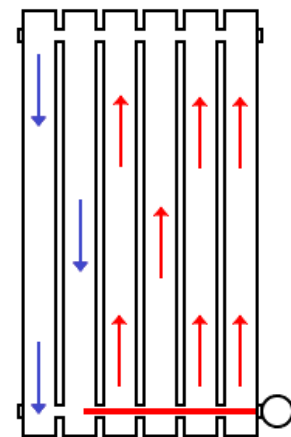


Figure 9 | Depiction of heat in an Ecostrad Allora (stylised)

4-2-1 | Getting the best out of your Ecostrad Allora

For best results:

- **Allow a few days of heating regularly and gently** when first installed to calibrate the radiator to your home and to ensure the product is heating correctly. At first, the lower bars or those furthest from the heating element may feel cooler than the rest of the radiator: this is expected behaviour. The heat distribution should become more even over time. However, because of the dynamic nature of convection, there will always be some discrepancy between the top and bottom of the radiator.
- **Set a program on the heating element** (see the heating element's manual for details) as Ecostrad Designer Electric Radiators work best when maintaining consistent temperatures.
- **Always allow enough time for the radiator to heat the walls and air** before the warmth is needed, especially when the radiator is heating a colder room. This is recommended because designer electric radiators, like central heating radiators, heat the air through convection and the solid objects of a room through gentle radiated heat. Whilst convection is fast, radiated heat is absorbed into the walls, floors and furniture, which takes longer. Allowing enough time for the radiator to heat the room with radiated heat results in a more deeply warmed room, ensuring it holds heat for longer when the radiator is turned down or off.
- **Do not allow the room to cool significantly between heating periods.** This forces the radiator to heat more aggressively, which could result in uneven heat distribution.

If you have concerns about the heat performance of your radiator, contact the retail establishment or distributor from which the product was purchased

4-2-2 | Covering your radiator

Unlike most electric heating products, the Ecostrad Allora is just like typical central heating radiators in that it can be used to dry clothing or towels. However, please be aware that covering your radiator will reduce its useful heating output for the room.

You must NEVER cover the electrical heating element – doing so risks overheating the electrical components which could result in irreparable damage or fire. **Covering the heating element will void the product's warranty.**



5 | Cleaning & Maintenance

Regular cleaning with a soft, damp cloth will keep the surface of your product looking new. Do not use abrasive or chemical cleaners as these will damage the finish over time.

Always ensure the heating element is disconnected from the power before attempting any maintenance or cleaning. Risk of electric shock.



6 | Troubleshooting

For common issues, see the table below. For control issues, see the manual of the heating element.

If you have any other concerns, contact the retail establishment or distributor from which the product was purchased.

Issue	Explanation/Solution
Radiator is making noise	<ol style="list-style-type: none"> 1) Ensure the Bracket Guards are placed within the brackets. These guards prevent the radiator from rattling against the brackets. 2) Banging noises may occur as the metal expands. This can happen at any time, particularly when the metal is heated from cold, but it is more common after first installation. Follow the usage guidelines in section 4-2 to minimise expansion noises. <p>If the issue persists or is accompanied by other issues, contact your retailer.</p>
Radiator is cool to the touch	<ol style="list-style-type: none"> 1) Check the set temperature. If the set temperature is lower than the room temperature, the radiator will not heat. 2) If the set temperature is higher than the room temperature, check that the heating element is calling for heat by checking for the heating symbol. If there is no heating symbol, this may indicate an element issue, such as incorrect temperature compensation, Open Window Detection being triggered, incorrect mode, or an electronic fault. Check the element manual for details on how to correct these issues. 3) Check how long the product has been heating. Radiators that have been heating continuously for less than 45 minutes may not be at their maximum temperature. 4) Check the ambient room temperature. In cold rooms the product may feel colder to the touch as the heat produced is quickly transferred to the room. This is particularly likely in cases where there is an extreme difference in temperature between the radiator and the room. See section 4-2 for usage guidelines.

Issue	Explanation/Solution
<p>The surface of the radiator has faults/is no longer perfect</p>	<p>Please see the warranty section of this manual (section 7) for details of what is and is not covered by the warranty. Note that regular cleaning of your radiator (as stated in section 5) will help keep the surface of your radiator looking new.</p>
<p>Radiator is hotter on one side than the other</p>	<p>Uneven surface temperature on an Electric Designer Radiator is perfectly normal, particularly during the initial heat up time. These radiators are powered by an electric element which heats the liquid in the bottom half of the radiator (for horizontal radiators) or the left or right side (for vertical radiators). The liquid circulates due to convection alone: it is not pushed by any fan or propeller, and so takes time to circulate fully. Always allow your radiator to heat for a few hours before testing to see if surface temperature is uneven. Uneven surface temperature is also more common when trying to heat a cold room quickly - see section 4-2.</p>
<p>Radiator is hotter to the touch when covered with a towel</p>	<p>Radiators covered by a towel or clothes may heat up quicker or feel hotter to the touch than those that are not covered. This is because the fabric traps the heat in the radiator, meaning the surface temperature raises quicker and to higher extremes. However, this means less heat is being transferred to the room. To heat a room most effectively, do not cover your radiator. NEVER cover the electrical heating element. Risk of fire.</p>

7 | Warranty

The Ecostrad Allora Designer Radiator carries a 10-year guarantee on the steel body, a 3-year guarantee on paintwork and a 2-year guarantee on electrical components.

What does the warranty cover?

Within the stated period, starting from the date the customer receives their unit, Ecostrad guarantee to repair or replace the unit where a fault is due to defects in materials or manufacturing.

What does the warranty NOT cover?

The warranty does not cover any defect arising from damage, negligence, usage outside the product's intended purpose or fair wear and tear. The warranty is only valid when the radiator has been used with the supplied heating element, at the specified supply voltage, and in accordance with all conditions specified in this manual. The warranty will be void if the radiator has been tampered with, if its fluid levels have been adjusted, or if the ratings label has been removed.

The warranty does not cover failures and faults due to force majeure, accidental damage, mishandling, external impact, chemical agents or atmospheric phenomena, incorrect use of the unit, the purchaser's faulty electrical installations, transporting the unit or problems caused by the unit being handled by persons not authorised by Ecostrad. An invoice may be required to confirm that installation work has been carried out by a qualified professional. Ecostrad cannot accept responsibility for damage, loss or injury caused by incorrect installation, maintenance, cleaning or covering the unit.

The warranty does not cover any minor defect in finish on the back or the brackets of the product, which do not impair the structural integrity or overall look of the product.

How to claim

The warranty is a contract with the original purchaser and does not transfer if the unit is re-sold, gifted or inherited. Proof of purchase, including order number and order confirmation or invoice, will be required if a claim is made. The warranty covers only the model of heater shown on the purchase invoice. The warranty covers the repair or replacement of the defective product only and Ecostrad shall have no liability for installation costs or consequential losses however incurred. Claims must be made with the establishment where the unit was purchased. This warranty does not affect the customer's consumer rights.

8 | ErP Ecodesign Information

Table 2 | Output guidelines

Model	300W	600W	800W	1000W	1200W
Heat output					
Nominal heat output (P_{nom} /kW)	0.3	0.6	0.8	1.0	1.2
Minimum heat output (indicative) (P_{min} /kW)	0.3	0.6	0.8	1.0	1.2
Maximum continuous heat output ($P_{max.c}$ /kW)	0.3	0.6	0.8	1.0	1.2
Auxiliary electricity consumption					
At nominal heat output (el_{max} /kW)	N/A	N/A	N/A	N/A	N/A
At minimal heat output (el_{min} /kW)	N/A	N/A	N/A	N/A	N/A
In standby mode (el_{sb} /kW)	0.0006	0.0006	0.0006	0.0006	0.0006

Table 3 | Information requirements for electrical space heaters

Item	Unit
Type of heat input, for electric storage local space heaters only (select one)	
manual heat charge control, with integrated thermostat	N/A
manual heat charge control with room and/or outdoor temperature feedback	N/A
electronic heat charge control with room and/or outdoor temperature feedback	N/A
fan assisted heat output	N/A
Type of heat output/room temperature control (select one)	
single stage heat output and no room temperature control	[no]
Two or more manual stages, no room temperature control	[no]
with mechanic thermostat room temperature control	[no]
with electronic room temperature control	[no]

Table 3 | Information requirements for electrical space heaters

Item	Unit
electronic room temperature control plus day timer	[no]
electronic room temperature control plus week timer	[yes]
Other control options (multiple selections possible)	
room temperature control, with presence detection	[no]
room temperature control, with open window detection	[yes]
with distance control option	[yes]
with adaptive start control	[no]
with working time limitation	[yes]
with black bulb sensor	[no]

9 | Disposal



In accordance with WEEE Directive 2012/19/EU, the icon with the crossed-out waste bin on electrical or electronic equipment stipulates that this equipment must not be disposed of with household waste at the end of its life. You will find collection points for free return of waste electrical and electronic equipment in your vicinity. The addresses can be obtained from your local authority.

The separate collection of waste electrical and electronic equipment enables the re-use, recycling and other forms of recovery of waste equipment, and prevents any negative effects for the environment or human health caused by the disposal of hazardous substances potentially contained in the equipment.

For queries, contact:

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