MADE IN GERMANY

Electric heater user manual

General Information

1. Safety instructions

Please read the user manual of your new AeroFlow® electronic radiator and the information listed here carefully. Store these instructions in a safe place and pass them on to the following user/owner if necessary. The electronic heating you have just purchased is only suitable for heating inside enclosed rooms. Damaged devices (e.g. damaged connecting cables) must not be operated.

Our radiators are tested according to the applicable IP protection class when properly installed (International Protection Code – in this case: Protected against spray water). In the fixed electrical installation, a separating device with at least a 3mm contact opening shall be provided on each pole (for example, a safety device, residual current circuit breaker). Substances which are prone to ignition or thermal decomposition (e.g., adhesives of floor coverings) may only be used if it is **certain** the heater has been cooled to room temperature. The heater must not be placed directly below a wall socket.

The radiator is not intended to be used by persons (including children) with limited perceptual abilities or by people with lack of experience and / or lack of knowledge of using it. Unless they are supervised by a person responsible for their safety or have received instructions from this person on how to use the radiator. Children should be supervised to ensure that they do not play with the radiator.

2. Electrical connection

Your AeroFlow® electric radiator system is suitable for fixed connection to wall sockets or operation from power sockets. An electrician must be consulted when installing it via a wall socket. If the mains connection cable of the radiator is damaged, it needs to be replaced by us or a suitably qualified electrician in order to prevent danger and additional damage.

The radiator may only be operated with a thermostat directly on the radiator or with an external control. The heating control must always be performed using a suitable room thermostat.

3. Installation

Our devices are mounted horizontally on the wall. Attachment to the ceiling is not permitted. The radiator should normally be installed under a window or on an external wall. Please ensure that the radiator can radiate into the room as freely as possible. You can find our detailed installation information on Page 3.

4. Heating

The radiator is controlled via the externally or internally installed room thermostat. A higher setting means a longer operating time. Please refer to the operating instructions of the room thermostat on the following pages. It is possible that a slight odour can develop during initial commissioning, since some materials still have to emit fumes. This does not pose any threat, and it will stop after a period of time. Please ventilate the rooms well if necessary. In rare cases, noise can occur in the form of cracking, which is caused by heat-induced material movements, which are harmless.

5. Overheating protection

For your safety, the heater is equipped with a temperature switch integrated in the heating system. If the radiator is not heated in the permitted manner (e.g. by covering or blocking) the radiator switches off automatically. The covering of the heater (e.g. through towels) during operation is not permissible, it is a fire hazard! Any resulting defects on a temperature switch and the resulting costs for the repair shall be borne exclusively by the party causing the damage. We can offer you a towel rack suitable for our radiators in our online shop.

6. Malfunctions

If the radiator does not emit any heat, please check that the thermostat is pre-set to the desired temperature. In addition, it is essential to check that the local power distribution is switched on or that the fuse is in working order. If you encounter such malfunctions, please contact your installer. In the event of a complaint being addressed to us, the serial number of the device is required for order processing. You will find this information on the rating plate.

7. Cleaning of device

Switch the radiator off before each cleaning sequence and allow it completely cool down. Only wipe the radiator off with a soft, damp cloth and do not use any chemical detergents or abrasive. A correspondingly designed cleaning brush can be used for the cleaning of the slats (not included). We offer you an appropriate product in our online shop for purchase in the accessories section.

8. Directions for disposal

Disposal of old equipment in Germany

The devices marked with the symbol below must not be disposed of with household waste. As a manufacturer, we are responsible for the environmentally sound treatment and recycling of WEEE as part of our production responsibility. Please contact your local authority for further information on collection and disposal. If necessary, name the following number WEEE-Reg.-No. DE 46197075 .

Disposal outside of Germany

Dispose of these appliances in an expert and proper manner in accordance with local legislation and regulations.

Guarantee conditions

For this product, we provide a 30-year warranty on the area of heat generation and usability of the basic unit as well as a 2-year warranty on the control technology, the spare parts and the accessories.

In other respects that statutory warranty shall apply. Our warranty conditions regulate the additional warranty claims, which are in addition to the statutory warranty claims of the customer.

The warranty conditions apply only to devices which are purchased by the end user as new devices. A guarantee obligation does not come about insofar as the final customer purchases a used device or for its part a new device from another end customer.

The warranty is provided if a manufacturing and/or material fault occurs during the warranty period on our radiators and the accessories.

Within the warranty period that commences upon the delivery date, we will remedy free of charge any malfunctions that are demonstrably due to a material defect or defective performance.

Our guarantee includes the free exchange of defective parts as well as the provision of free spare parts during the warranty period.

We are only liable if the function of the radiator is impaired and the defect is not caused by negligent, intentional or improper handling, use of force, transport, misuse, connection to incorrect mains voltages, failure to observe the appropriate operating instructions or installation instructions, improper cleaning or corrosion damage due to caustic water, by chemical and / or electrochemical effects or by normal wear and tear.

The warranty will become void if the unit has been subjected to interventions or attempted repairs by persons who have not been authorised to do so by us. Please note that dismantling of the heater by the customer or third parties is fundamentally not permissible. If there is a violation this warranty entitlement shall cease to apply.

The possible replacement of the radiator side part (e.g. when changing the control technology) and / or the possible shortening of the connecting cable (e.g. removal of the earthed plug for the purpose of producing a fixed connection) does not lead to a loss of warranty, insofar as no intervention in or manipulation of electronic components takes place, beyond the necessary extent of the modification to be performed, and the correspondingly permissible work is performed by a qualified expert.

The warranty covers the careful inspection of the radiator or the accessories whereby it must be initially determined whether a warranty claim applies. In the event of a claim under the warranty we solely decide in which manner the fault shall be rectified. We are at liberty to replace a radiator or accessory or to perform a repair. During the warranty period, we assume all material, assembly and transport costs within the scope of this warranty.

In addition to the above-mentioned warranty service, the end customer cannot assert any claims for indirect damage or consequential damage caused by the device, in particular for compensation for damages incurred outside the device. Statutory claims of the customer against us shall remain unaffected by this clause. Warranty claims must be reported to us before expiry of the warranty period, within one week of the defect being detected.

Fixing the wall brackets

Only the wall bracket supplied may be used for wall mounting! The latest regulations according to VDE 0100 part 701 must be complied with for the installation and operation in damp rooms.

The device may not be mounted directly under a wall socket. In order to avoid excessive heat radiation upon the wall socket, a certain safety distance must also be taken into account between the radiator and the wall socket. This distance is largely determined by the material quality and heat resistance of the locally installed socket and therefore can not be assessed by us. We assume no liability for improper handling and possible damages resulting from this. In case of doubt, consult a specialist before installation. Suitable screws and dowels must be used depending on the type and condition of the wall material. When positioning the wall bracket and the heater, please always observe the stipulated minimum distances (see the following figures).

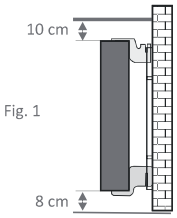
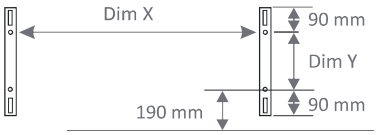
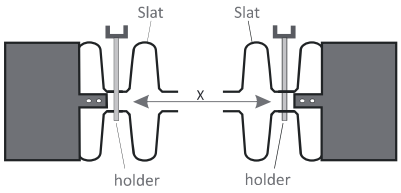


Fig. 1

Fig. 2
A achment dimensions



All radiators have four temperature-resistant holders, which guarantee optimum fixing of the heater. Please note the correct hanging position of the upper (marking 1) and lower (marking 2) holders on the heater (see following figures).

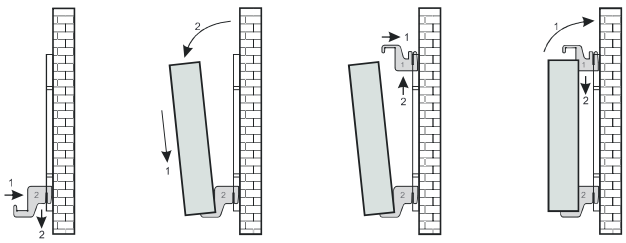


With the type-specific dimension table, you can obtain the correct positioning for the U-rails and the holders for the correct mounting and fixing of the radiator.

Radiator type	Dim X in mm	Dim Y in mm	Radiator type	Dim X in mm	Dim Y in mm
AF01E	232	405	AF10E	232	1040
AF03E	466	405	AF12E	766	120
AF05E	766	405	AF13E	1066	120
AF07E	1066	405	AF14E	1366	120

For the assembly please perform the following steps:

1. The two U-rails must be fixed to the wall whilst observing the minimum distances and depending on the type-specific X / Y-dimension.
2. The two holders marked with the number 2 are to be inserted into the U-rails at the bottom.
3. Following this the radiator is hooked into the lower holders and tilted forward at an angle. Hold the radiator while doing so!
4. The two holders marked with the number 1 are to be inserted into the U-rails at the top and temporarily pulled up.
5. Finally, place the radiator in a vertical position and press the upper holders down until the heater is completely fixed in place.



Note - alignment of the temperature sensor

The temperature sensor is attached to the bottom of the radiator in a clip. If, due to the placement of the device in a niche or corner, the room temperature and the measured temperature is influenced, the sensor can be removed from the clip. The distance to the radiator can be increased by turning the connection cable of the sensor. **The best way to correc the temperature is in the menu settings, "Temperature sensor calibration".**

Thermostat User Guide

Display icons

Auto mode Open window sensor Child lock Frost Protection

Manual mode Temporary manual mode

Holiday mode Heating on

WIFI connection. Flashing – waiting for initial connection to WiFi

Cloud connection icon

Operation keys

Turns the thermostat on/off

When the power is on, a short press will display the time. A long press will turn the thermostat off.

Short press to choose manual or auto mode

When holiday mode is on, short press to go into manual mode

When the power is on, long press to enter setting interface

On setting interface, short press to confirm

When in standby, long press to set advance options

and pressed together. Thermostat must be turned on first. Hold these two buttons to enter WiFi pairing when connecting to the app.

Decrease temperature set point; Long press to lock/unlock

Short press to display setting temperature

Increase temperature set point.

In auto mode, short press or for temporary manual mode

Setting the time

Turn the thermostat on, long press to enter setting interface, short press or to choose 01, then short press to set the time, next press to choose minutes, hours, days. Short press " " or " "to change each of the minutes, hours & days. Day 1 is Monday. When the time and day are set, press or wait 10 seconds to exit.

Programming

Turn the thermostat on, long press to enter setting interface, short press or to choose 02, then short press to enter the programming, short press to choose hour, minute and temperature, short press or to change each of the hours, minutes & temperature to your requirements. When the programming is complete, press or wait 10 seconds to exit.

You can set up to six different temperatures for different times throughout the day. These are the default settings:

Period 1		Period 2		Period 3		Period 4		Period 5		Period 6	
Wake up		Go out		Back home		Go out		Back home		Sleep	
6:00	20℃	8:00	15℃	11:30	15℃	13:30	15℃	17:00	15℃	22:00	15℃

For each period the time and temperature can be changed.

If you do not need the temperature to rise and fall in the middle of the day then you can set the temperature to be the same on parts 2,3 and 4 so that it does not increase again until the time in part 5.

By default the programming is set to 5+2, this means that Monday to Friday will be the same programming and Saturday and Sunday will be the same programming. The first time through setting period 1 to period 6 is for Mon – Fri. The second time through is for Sat&Sun. In advanced option menu number 11, you can change to 6+1 so only Sunday will be different or to 7 which means all seven days will have the same programming.

Holiday mode

Turn the thermostat on. Long press ⠿ to enter the setting interface， short press ▲ or ▼ to find menu number 03, then short press ⠿ to enter. Short press ⠿ to choose how many days days you want holiday mode on for, short press ▲ or ▼ to change the value then short press ⠿ to select what temperature you want in the room during the holiday mode period, short press ▲ or ▼ to change the value. When you've finished, press ⏻ or wait 10 minutes to exit.

Advanced options menu

Turn the thermostat off using a long press on ⏻ , then long press ⠿ to enter advanced options. Short press ⠿ to choose menu item, short press ▲ or ▼ to change the value.

Menu No.	Items	Parameter	Default
1	Temperature sensor calibration	-9-+9℃	-1
2	Temperature return difference	0.5-2.5℃	1℃
3	External sensor control return difference	1~9 ℃	2
4	Choose sensor	N1 :inner sensor(high temperature protection closed) N2: external sensor(high temperature protection closed) N3: inner sensor for temperature controlling, external sensor for high temperature protection	N1
5	Child lock	0：half lock；　1：full lock	0
6	Maximum temperature setting allowed	1：20℃-70℃ 2：lower than 20℃ will display【--】, this means the function is turned off	45
7	Minimum temperature setting allowed	1：1℃-10℃ 2：higher than 10℃ will display【--】, this means the function is turned off	5
8	Minimum temperature	1-10	5
9	Maximum temperature	20-70	35
10	Behaviour after mains power turned off and back on	0：Remembers previous state 1：Comes back on in standby mode 2：Comes back on in default mode	0
11	Programming	0：5+2；　1：6+1；　2：7	0
12	Standby display	0: Blank display until touched 1: Display temperature 2: Display temperature brightly	2
13	Open window	- -　: Open window sensing off on　: Open window sensing on	- -
14	Temperature to trigger open window	10~20℃	10
15	Open window running time	10~20min	10
16	Key Sounds	00:No Sound 01: Key sound 02: Key sound and Alarm	02
17	Adaptive start	- -　: Feature turned off on　: Feature turned on	On
18	Reset	Long press ⠿ until the whole display resets	

Open window sensing

Will turn the heating off for a period if a draught is sensed. This could be triggered by an open window or an open external door.

Adaptive start function

If this feature is turned on, the thermostat will use a learning algorithm in order to switch on at the right time to achieve the room temperature required at the start of the program. For example, if the first heating period starts at 6am and the set temperature for the first period is 20ºC the thermostat will turn the heating elements on in advance of 6am in order to achieve 20ºC at 6am. If this feature is turned off then in this example the heating element would be turned on at 6am.

App User Guide

Preparation required for WiFi Connection:

You will need a smart phone or tablet and wireless router. Connect the wireless router to the mobile phone and record the WIFI password [you will need it when the thermostat is paired with the WiFi].

Step 1 Download your app

Android users can search “Smart RM” or ”Smart life” on Google Play, IPhone users can search “Smart RM” or ”Smart life” in the App Store. Alternatively you can scan the QR code above

Step 2 Register your account

- After installing the app, click “register” (Fig 2-1)
- Please read the Privacy Policy and press Agree to proceed to the next step. (Fig 2-2)
- Registration account name uses your Email Or mobile phone number. Select Region, then click “Continue”(Fig 2-3)
- You will receive a 6-digit verification code via email or SMS to enter your phone (Fig 2-4)
- Please set the password, Password must contain 6-20 letters and numbers. click “Done”(Fig 2-5)

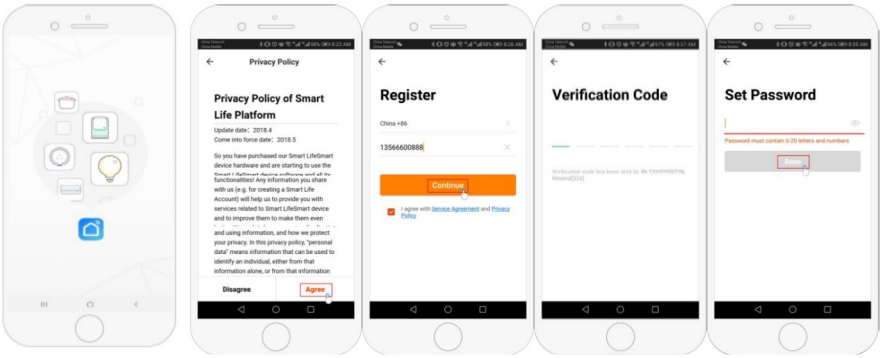


Fig 2-1 Fig 2-2 Fig 2-3 Fig 2-4 Fig 2-5

Step 3 Create family information(Fig 3-1)

1. Fill in the family name (Fig 3-2).
2. Select or add a room (Fig 3-2).
3. Set location permission (Fig 3-3) then set thermostat location (Fig 3-4)

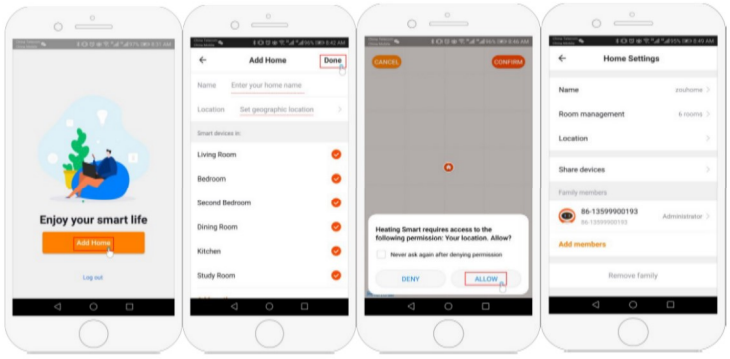


Fig 3-1 Fig 3-2 Fig 3-3 Fig 3-4

Step 4a Connect your Wi-Fi signal (EZ connection mode)

1. Go to your Wifi setting on your phone and make sure you are connected via 2.4g and not 5g. Most modern routers have 2.4g & 5g connection. 5g connections do not work with the thermostat.
2. On the phone press "Add Device" or "+" in the upper right corner of the app to add the device (Fig 4-1) and under the small appliance section select the device type "Thermostat" （Fig 4-2）
3. With the thermostat powered on, press and hold and at the same until both icons (&) flash to indicate the EZ distribution mode. This can take between 5-20 seconds.
4. On your thermostat confirm icons are rapidly blinking and then go back and confirm this on your app. Enter the password of your wireless router this is case sensitive（fig 4-4） and confirm. The app will connect automatically（Fig 4-5） This may typically take up to 5~90 seconds to complete.

If you get an error message make sure you have entered your correct Wi-Fi password (case sensitive typically found on the bottom of your router) and that you are not on your Wi-Fi's 5G connection.
Your room name can be edited when the device is connected.

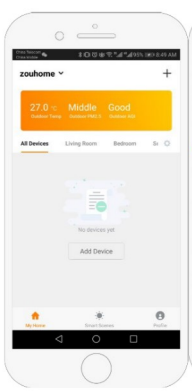


Fig 4-1

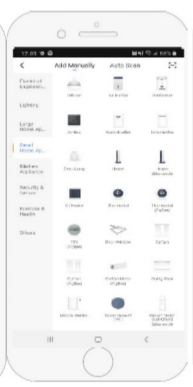


Fig 4-2

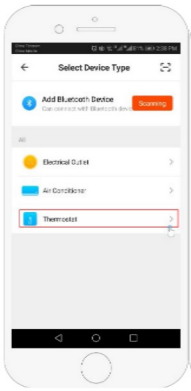


Fig 4-2

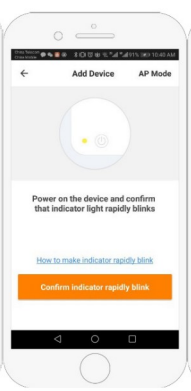


Fig 4-3

Fig 4-4

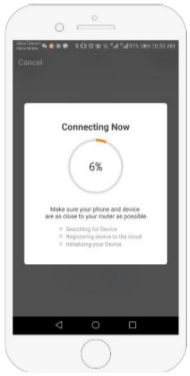


Fig 4-5

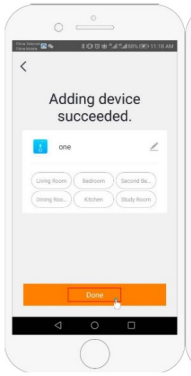


Fig 4-6

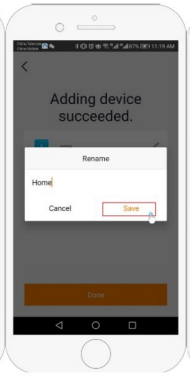


Fig 4-7

Fig 4-9

Step 4b (Alternative method) (AP mode pairing) Only do this if step 4a failed to pair the device

1. On the phone press "Add Device" or "+" in the upper right corner of the app to add the device (Fig 4-1) and under the small appliance section select the device type "Thermostat" and click AP Mode in the top right corner.（Fig 5-1）
2. On the thermostat press power on and then press and hold " " and " " until flashes. This can take between 5-20 seconds. If also flashes release buttons and press and hold " " and " " again until just flashes.
3. On the app click "confirm light is blinking", then enter the password of your wireless router（fig 4-4）
4. Press "Connect now" and select the Wifi signal (Smartlife-XXXX) of your thermostat（Fig 5-3 and 5-4 it will say internet may not be available and ask you to change network but ignore this.
5. Go back to your app and click "Connect" then the app will connect automatically（Fig 4-5）

This may typically take up to 5~90 seconds to complete and will then show confirmation (Fig 4-6) and allow you to change the thermostat name (Fig 4-7)

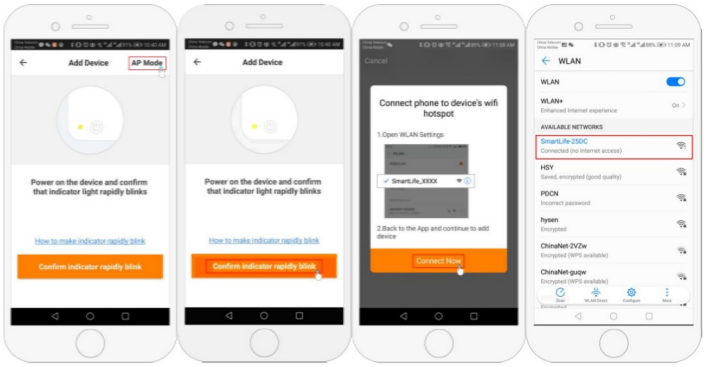


Fig 5-1 Fig 5-2 Fig 5-3 Fig 5-4

Step 5 Changing sensor type and temperature limit
Press the setting key ⚙ (Fig 4-8) in the bottom right hand corner to bring up the menu.
Click the Sensor type option and enter password (normally 123456). Then you will be given 3 options:

(1) “Single built-in sensor” will only use the internal air sensor (this setting MUST be used)
(2) “Single external sensor” will only use the floor probe when the thermostat is used for underfloor heating
(3) “Internal and external sensors” (underfloor heating)

Step 6 Programming daily schedule
Press the setting key ⚙(fig 4-8) in the bottom right hand corner to bring up the menu, at the bottom of the menu there will be 2 stand alone options called “week program type” and “weekly program setting”.
“Week program” type allows you to choose the number of days the schedule applies to between 5+2 (weekday+weekend) 6+1 (Mon-Sat+Sun) or 7 days (all week).
“Weekly program” setting allows you to choose the time and temperature of your daily schedule at varying points. You will have 6 options of times and temperatures to set. See example below.

Period 1	Period 2	Period 3	Period 4	Period 5	Period 6
Wake up	Leave Home	Back Home	Leave Home	Back Home	Sleep
06:00	08:00	11:30	13:30	17:00	22:00
20℃	15℃	20℃	15℃	20℃	15℃

If you do not need the temperature to rise and fall in the middle of the day then you can set the temperature to be the same on parts 2,3 and 4 so that is does not increase again until the time in part 5.

Additional Features

Holiday Mode: You can program the thermostat to be on for a set temperature for up to 30 days so that there is background heat in the house while you are away. This can be found under the mode(fig 4-8) section. You have the option to set the number of days between 1-30 and a temperature up to 27℃
.
Lock Mode: This option allows you to remotely lock the thermostat so no changes can be made. This can be done by clicking the(Fig 4-8) symbol. To unlock click the(Fig 4-8) symbol again.

Grouping devices: You can link multiple thermostats together as a group and control them all simultaneously. This can be done by clicking on the (Fig 4-8) in the top right corner and then clicking the Create Group option. If you have multiple thermostats linked it will allow you to tick each one that you want to be in the group and once you confirm the selection you will be able to name the group.

Family Management: You can add other people to your family and allow them to control the devices you have linked. To do this you need to go back to the home page and click on the family name in the top left corner and then click on Family Management. Once you have selected the family you wish to manage there will be an option to Add Member, you will need to enter the mobile number or email address they have registered the app with to send them an invitation. You can set whether or not they are an administrator which allows them to make changes to the device ie removing it.

Table 2 of the COMMISSION REGULATION (EU) 2015/1188 as of 28 April 2015

Information requirements for electric local space heaters

Model identfier(s):			AF01E	AF03E	AF05E	AF07E	AF10E	AF12E	AF13E	AF14E
Item	Symbol	Unit	Value	Value	Value	Value	Value	Value	Value	Value
Heat output										
Nominal heat output	P_{nom}	kW	0,65	1,30	1,95	2,45	1,60	1,20	1,60	2,00
Minimum heat output (indicative)	P_{min}	kW	0,65	1,30	1,95	2,45	1,60	1,20	1,60	2,00
Maximum continuous heat output	$P_{max,c}$	kW	0,59	1,17	1,76	2,21	1,20	0,90	1,20	1,50
Auxiliary electricity consumption										
At nominal heat output	el_{max}	kW	0,0241	0,0241	0,0241	0,0241	0,0241	0,0241	0,0241	0,0241
At minimum heat output	el_{min}	kW	0,0241	0,0241	0,0241	0,0241	0,0241	0,0241	0,0241	0,0241
In standby mode	el_{SB}	kW	0,0168	0,0168	0,0168	0,0168	0,0168	0,0168	0,0168	0,0168

same for all listed models	
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
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	yes
with working time limitation	no
with black bulb sensor	no

Contact details	Electrorad UK Ltd. Units 1 & 2 Clayton Park Clayton Wood Rise LS16 6R Leeds

MADE IN GERMANY

warranty certificate

The AeroFlow® product family of Thermotec AG is available
for a healthy indoor climate and cost-conscious heating.
Our years of development work and a modern production process
are the prerequisite for the longevity and
high stability of value of your AeroFlow® product.

THERMOTEC.AG

AeroFlow By Electrorad®

30-year warranty on heat generation*

With the purchase of this device, you have decided for
an innovative quality product of the absolute top class.
We thank you for your trust.

Sebastian Heidrich
Founder and chairman of Thermotec AG

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E-WÄRME CLEVER GENUTZT

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The function guarantee of 30 years on the heating element includes the elements heating stones, thermal switches and cables. The functional guarantee on the body of the radiator includes the durability of all riveted connections, welds and the materials used. The warranty period for the thermostat and electronic elements is 2 years.

VD051 | Rev. 1

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