

INSTALLATION MANUAL

Electric Quartz Heater

Model Sura Plus

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FACTORIES: IPSWICH, ENGLAND - CHARLOTTE, N.C, U.S.A



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CAUTION! Do NOT touch the heater lamp with bare hands!

1. Important

CAUTION! When using Space-Ray electric heaters, basic precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

Read all instructions before using this heater.

- Before using this appliance:
 1. Check that the voltage indicated on the type plate corresponds to the mains supply voltage.
 2. Ensure that the heater has been securely fastened in its final mounting position.

CAUTION! Some parts of the product can become very hot and cause burns. Particular attention has to be given where chil-



dren and vulnerable people are present.

- Disconnect pole switch from the hard wired circuit during installation, cleaning and always ensure that the heater is cool.
- Do not use an extension cord with this product because the extension cord may overheat and cause a risk of fire.
- Keep the mains supply cord away from the body of the heater which will get hot during use.
- Arrange the mains supply cord so it cannot be tripped over or damaged.
- Do not cover or obstruct the heater while it is in use.
- Do not place material or garments on the heater, or obstruct the air circulation around the heater, for instance by curtains or pushing furniture against the heater when wall mounted, as this could cause overheating and a fire risk.
- Do not install less than the minimum mounting distance from the floor.
- This heater is not suitable for hazardous locations.
- **WARNING!** This appliance must be earthed and connected to a supply that is earthed!

IMPORTANT! SAVE THESE INSTRUCTIONS FOR FUTURE USE.



WARNING! If you set only the “on time” but “off time” is not set, heater will operate continuously until turned off manually.

Timer on settings - Press timer on button while the heater is operating. “On” icon flashes on the remote control display.



Press   buttons to adjust the “on time” with 10 minute intervals. Press timer on button again to save the time. “On” indicator and “on time” appears continuously on the remote control screen which indicates the heater is set to operate at that time. Also an “HP” indicator and red warning LED light appears on the display panel of the heater.

To cancel the “on time” press the “timer on” button and then “cancel” button.

Timer off settings - Press the “timer off” button whilst the heater is operating. “Off” icon flashes on the remote control screen.

Press   buttons to adjust the “off time” with 10 minute intervals. Press timer off button again to save the time. “Off” indicator and “off time” appears continuously on the remote control screen which indicates that the heater is set to turn off at that time. Also an “HP” indicator and red LED warning light appears on the display panel of the heater.

To cancel the “off time” press the “timer off” button and then “cancel” button.

Sleep timer settings - Press sleep button. Press   buttons to set sleep time from 1 to 12 hours. Press sleep button to save your settings. Remaining time will appear on the screen.

WARNING! The time is to be precisely set

and the heater is to be operating before using sleep timer function.



Everyday function - If you use “timer on/off” function everyday for the same time, you can you “everyday” button to avoid repeating these settings. Press “everyday” button after “timer on/off” setting is completed. Heater will turn on & off automatically at the pre-set time as described above. “Everyday” icon will appear on the remote control screen when this function is activated.







To cancel the function, press the “everyday” button again.

Note Press cancel button to cancel all time settings. The settings will recede unless you press (clock, timer on, sleep or timer off) necessary button to save your time settings in 20 seconds.

Press cancel to cancel all types of time settings.

Press cancel button with interval of 3 seconds to cancel all settings on the remote control. Set your sleep timer again in case of turning the heater off and on. Once you set on/off time, functions will operate in those daily set times. The heater is to be in stand-by mode to operate on timer.

1. On/Off Turns heater on or off or places in standby.
2. Program up/down   adjusts program settings.
3. Clock sets the time
4. Timer on, when activated turns on the heater to a pre-set power mode. During timer on function, heater does not turn off (standby) by on/off button and will continuously work at low power until the on time.
5. Timer off switches off the heater to standby mode at a pre-set time.
6. Sleep switches off the heater to standby mode at a pre-set time.
7. Everyday operates the heater on pre-set parameters every day.
8. Cancel cancels all settings
9. LCD Displays the settings of the remote control and related indicators.

Symbol	Definition
	Power mode indicator
	Time settings indicator
	On time indicator
	Off time indicator
	Indicates remaining time to switch off the heater
	Indicates that "Everyday" function is on

5.2.2 Operation



Insert 2 x AAA Alkaline type batteries into the remote control. To do so pull out the battery cover on the rear of the control. Insert the batteries in accordance with the polarity indicators.



NOTE! Always replace batteries with the same size. During long periods of unuse, always remove batteries to prevent leakage which may damage the remote.

The screen of the remote starts functioning after inserting batteries.

Ensure that the heater electricity supply is connected and turned on and "H" is present on the heater display screen which indicates the heater is functioning. "H0" indicates that the heater is in standby mode. H1, H2, H3, H4 & H5 indicates the increasing power level from low to high.

Heater operates at H1 level when the on/off button is pressed on the remote control. If the heater was turned off whilst operating at a power level, it will continue operating at the same power level the next time the power is turned on.

Press   buttons to adjust the power mode of the heater. Time settings are to be carried out for the rest of the functions to operate.

To adjust the time press Clock button. Press   buttons to adjust hour and minutes. Press Clock button to save your settings.

NOTE! Quickly pressing on buttons will increase the speed, slowly pressing the buttons will reduce the speed

WARNING! Set the correct time before using the on/off timer function and ensure the heater is on while adjusting the timer.

WARNING! Heater will still be operating at a low power level until the pre-set "on time" when the on/off timer is set. A visible glow will be present from the lamp. Also the indicators on the remote control and display panel will warn you visually the heater is operating. Always check these indicators for your safety.

2. The Heater

According to Thermodynamic Laws there are three types of heat transfers; conduction, convection and radiation. The so-called "Radiant Heaters" function using the radiant heat transfer principle. The radiant heaters act like the sun to heat the objects that they are exposed. In other words, with radiant heating the objects, people, etc. are heated directly by a solid surface without heating up the air in between. The air warms up afterwards, by the convection heat released from the people and objects. It is possible to divide the radiant heaters in to two main classes. These are "Low Intensity Heaters" and "High and Medium Intensity Heaters". Sura Plus heaters belong to the latter.

Each heater has a halogen electric lamp. The filament of these heater lamps reaches up to 1200°C, a short time after the switch on. Thus, a comfortable warmth feeling occurs just after start up. This characteristics of the heaters provides economical and effective heating solutions for applications that are very high and wide, have poor insulation or outdoors. Additionally, they are clean, odourless, silent and environmental friendly.

3. Product Components

The main product components are as follows:

- A. Lamp Guard
- B. Quartz lamp holders and lamp(s)
- C. Reflector
- D. Heater case
- E. Remote controller
- G. Wall bracket
- H. Electric cable
- I. Installation screws

4. Installation & Use

4.1. Important safety information

Please read this information carefully before installing and using this device, which is manufactured to use for general, local and spot heating.

This device should not be used in areas where;

- There are flying or jumping animals,
- Explosive or flammable goods are manufactured or stored

Do not touch the lamp(s) with bare hands. If you touch the lamp(s) somehow, try to clean the fingerprints with a soft and dry cloth and with the help of volatile Solvent such as alcohol. Otherwise, these fingerprints would cause to lessen the life of the lamp(s).

In 1 lamp models (GSS20P) 3m electric cable with electric plug/socket is supplied upon. You can use the heaters by plugging into a jack of 220/240 VAC, 10A, grounded.

In 2 lamps models (GSS40P), the electrical connection should be made by authorized personnel according to the instructions and the wiring diagram on page 4.

It is not necessary to disassemble any part of the heater to make the electrical connections. Connections should only be made according to the instructions and schematics given below.

Please have your electricity supply (capacity, earth, protection) checked carefully by a qualified electrician if in any doubt prior to fitting this heater. The manufacturer is not responsible for any damage that may be caused due to the installation or usage of this product, other than described within

this manual.

The below tables show electrical loads and the minimum heights from the floor level for installing the products:

Model	Voltage	Rating	Current
GSS20P	220/240v	2000W	8.25A
GSS40P	220/240v	4000W	17.40A

Model	Min Distance to Floor	Dimensions
GSS20P	2.5m	555x166x95mm
GSS40P	3.5m	960x166x95mm

4.2. Installation

Parts required to install the heater are provided within the box. Please follow the instructions given below:

Fix the mounting bracket to the place (wall, column, beam etc.) where you wish to install the heater.

Use a spirit level to ensure a straight heater is fitted. Mark and drill the fixing holes, inserting the plastic wall plugs in the resulting hole. Mount the bracket using the screws supplied, securely fixed into the plastic wall plugs.

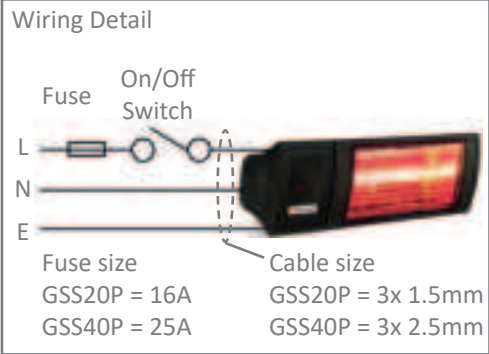
Angle of the heater should be adjusted to suit your needs and then fixed in position by tightening the screws on the bracket.

Please ensure that the electrical connections of the heater are made in accordance with this manual and the wiring diagram shown below.

Each heater should be installed with a local on/off switch/isolator in the case of GSS20P

models this can be a via a switched three pin socket. GSS40P models must be hard wired into a suitable sized fused isolator.

IMPORTANT! Do not install either model directly under the electrical supply socket or isolator.



4.3. Use

It is always necessary to ensure that the heater installation is correctly carried out, and that the electric current provided is not below or above the permissible limits. The heater, when installed correctly will serve the user for a long time.

Please pay attention to the following when using this heater:

- Please check if the heater is installed properly according to the rules (descriptions and warnings) given in the instruction manual.
- When using models supplied with a plug, just connect the plug to a wall terminal with convenient grounding.
- Disconnect/isolate the electrical supply if the heater is not used.
- Fluctuations in the electric voltage will reduce the lamp life. Please make sure that the fluctuations do not occur.

- Each heater has protective guard at the front to prevent anything touching the heating elements (lamp, cables, etc.). Do not operate the heater when the protective guard is uninstalled.
- Do not place anything within the heater and do not touch the lamp.
- Stay 1.25m away from the heater when it is on.
- Prolonged looking at the lamp during operation may result in damage to the eye. Therefore when the heater is on, do not look at the lamp with bare eyes.
- Protect the heater against shocks and vibrations even when it is not operating
- Do not put anything on the heater or cover it fully or partially.
- Ensure that, things that can catch fire quickly like paper, nylon, curtain, etc. stays at least 1.25m away from the heater.
- Ensure that kids cannot reach the heater.

If the heater fails to operate:

- Do not try to fix the heater.
- Disconnect the electric supply.
- Contact the nearest authorized agent for maintenance.

The reflectors are made out of highly polished aluminium. They do not lose their reflectivity easily, even due to dirt or dust. Therefore, it is not necessary to clean them frequently. However, if needed please follow the procedure below to clean the reflectors.

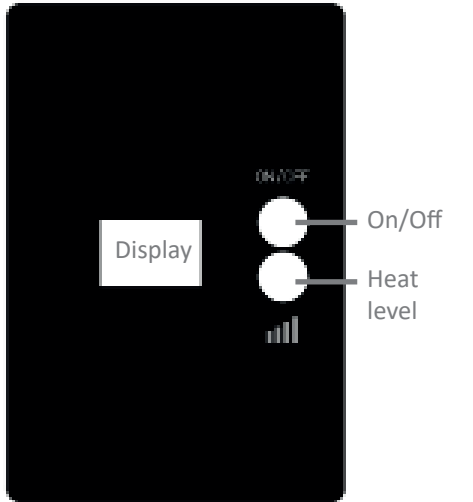
- Disconnect the electric supply of the heater.
- Remove the protective guard.

- Clean the reflector with a dry cloth.
- Do not touch the lamp with bare hands during cleaning. Make sure that no stain occurs on the lamp. If the lamp gets dirty somehow, clean the lamp with a soft cloth moisturised with alcohol.
- Refit the protective guard.
- Connect the heater to the electric supply.

5. Operating The Heater

The heater can be operated via the front panel or remote controller.

5.1 Heater front panel



5.2 Remote control

5.2.1 Functions

