



# 2 kW Greenhouse Heater

## Instructions

Instructions | Instrucciones | Anleitung  
Istruzioni | Instructies | Pokyny



## Please read and follow all instructions carefully and keep them in a safe place for future reference. Do not allow anyone who has not read these instructions to assemble, adjust or operate the heater.

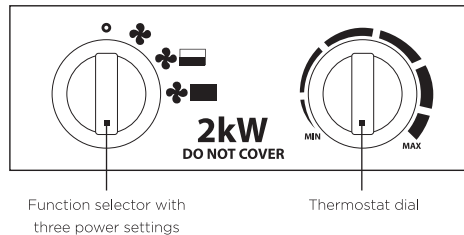
The LightHouse 2 kW Greenhouse Heater can be used in the home, warehouse, workshop or greenhouse. It has a mounted thermostat and a back-up safety cut-off thermostat. The mounted thermostat takes the temperature of the air going into the heater and controls the temperature of the room. The cut-off thermostat will switch off the heater if overheating, to ensure safety. The fan motor is not controlled by the thermostats so, when the heating element is cut off the ventilator stays on.

When operating the heater for the first time, you may notice a slight emission of smoke. This is quite normal and it stops after a short time. The heating element is made of stainless steel and is coated with a protective oil at production. The smoke is caused by the leftover oil evaporating.

### Technical specifications

Voltage/frequency: 230 V - 50 Hz  
 Power rating: 2000 W  
 Settings: 3 (25 W, 1000 W and 2000 W)  
 Temperature: Continuously adjustable 0-85°C  
 Dimensions: 230 x 198 x 320 mm  
 Weight: 3,5 kg  
 Requires at least a 10 A fuse  
 Housing of steel plate and heat-resistant lacquer  
 Supplied complete with cord and plug  
 IP24

### Description of Control Panel



### Special safety regulations



**Warning: To avoid overheating, DO NOT COVER the heater during use.**

When using an electrical appliance, basic precautions should always be followed including below:

- The fan heater is not suitable for use outdoors or in damp environments.
- The fan heater can become very hot and should be placed at a safe distance from flammable objects such as furniture, curtains, tent fabrics and similar.
- Do not cover the fan heater.
- Do not place the fan heater immediately under a wall socket.
- Do not connect the fan heater using an on/off timer or other equipment which can automatically switch the device on.
- The fan heater must not be placed in rooms where flammable liquids or gases are used or stored.
- If an extension cord is used, it must be as short as possible and always be fully extended.
- You must not connect other appliances to the same mains socket as the fan heater.
- If the cord of the heater is damaged, it must be repaired by the manufacturer or a qualified electrician.
- Make sure the heater is always under surveillance, do not leave it for a considerable amount of time when in use.
- Keep children and animals away from the heater.
- Do not place the appliance on moving vehicles or somewhere it can be tipped over.
- Unplug the appliance when not in use for a long period of time.
- Never remove the plug by pulling on the cord.
- Keep the heater away from curtains, fabric or other places where the air inlet can easily be blocked.
- The power coupler is waterproof when not in use. In order to prevent possible electric shock or leakage current, never use the appliance with wet hands or operate the appliance when there is water on the power cord.
- Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities. Contact your local government for information regarding the collection systems available.
- The heater should not be used by children or those of restricted ability, without proper supervision and instruction.

## How to use

- Position the fan heater so that it stands upright on a firm surface and at a safe distance from wet environments and flammable objects. **Ensure the rear of the heater is at least 30 cm from any wall or obstruction that may prevent air intake, and the front of the heater is at least 60 cm from any obstruction of the hot air output.**
- Connect the fan heater to the mains.
- Set the thermostat dial to the maximum temperature.
- The fan heater will switch on when the function selector is set to one of the three power settings.
- Once the room reaches the required temperature, turn the thermostat down until you hear it click, the heater will now turn off but the fan will remain on. Once the temperature decreases, the heating element will start again.
- The fan heater will now start and stop automatically and thus keep the room temperature constant.
- Before disconnecting the heater, please turn the thermostat to OFF position and turn the heating knob to FAN, let the appliance cool down for at least two minutes, before switching off.
- After using, turn off the heater first, then pull out the plug.

## Cleaning and Maintenance

Before cleaning the appliance, ensure it is cool and disconnect it from the socket. We recommend you clean the enclosure regularly wiping it with a soft sponge.

For stubborn dirt, wipe with a sponge dipped in warm water with a mild detergent, then dry the heater enclosure with clean cloth. Be careful not to let the water enter the appliance inner.

Don't splash water onto the heater, never use solvents like gasoline, isoamyl acetate toluene etc. to clean the heater, in order to protect the enclosure.

Clean the cord and plug, dry and pack it in a plastic bag.

To store the heater, let it cool and keep it dry. Cover it with a plastic bag, put in a packing box and store it in a dry, ventilated place.

## Trouble shooting

Common problems can be solved easily, see the suggestions below:

Problem	Possible cause	Treatment
The heater does not work when it is plugged in and the switch and thermostat are on.	The plug is not pushed into the socket properly	Pull out the plug, check the connection of the plug and socket. Then connect again.
	No power in socket outlet	Insert the plug in a working socket
The heating element is glowing	The input voltage is too high or too low	Check supply and ensure it is the right input as stated on the rating label
	The air inlet grill is blocked	Keep the heater well away from articles like walls, curtains, fabric, plastic bag, paper and other things which can cover the air inlet
The appliance didn't heat up, only the ventilator worked	The switch was not put at a heating setting	Turn the switch to heat setting
	The temperature is already above the thermostat setting	Turn the thermostat and listen for a 'click'. If there is no 'click' and the thermostat is not damaged, the heater will automatically switch on when the appliance has cooled down
Abnormal noise	The appliance is not standing upright	Put the heater on a level surface

## Disposal



### Environmental Protection

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.

## Warranty

This product has a 12-month warranty from date of manufacture providing the unit is returned to the place of purchase and subject to the unit not being misused or modified in any way.

ANY ALTERATION OF THE UNIT'S COMPONENTS AND/OR CONNECTIONS OR CABLING, HOWEVER MINOR, WILL BE CLASSED AS MODIFICATIONS AND WILL INVALIDATE ANY WARRANTY SUPPLIED WITH THE UNIT.

The unit must be returned with original plug and leads intact. In case of problems with the unit, consult the guidelines in these instructions.

This product is only suitable for well insulated spaces or occasional use.

Model identifier(s): 09-435-280					
Item	Symbol	Value	Unit	Item	Unit
Heat output			Type of heat input, for electric storage local space heaters only (select one)		
Nominal heat output	P <sub>nom</sub>	2	kW	Manual heat charge control with integrated thermostat	[no]
Minimum heat output (indicative)	P <sub>min</sub>	1	kW	Manual heat charge control with room and/or outdoor temperature feedback	[no]
Maximum continuous heat output	P <sub>max</sub>	2	kW	Electronic heat charge control with room and/or outdoor temperature feedback	[no]
Auxiliary electricity consumption			Fan assisted heat output		[no]
At nominal heat output	el <sub>max</sub>	N/A	kW	Type of heat output/room temperature control (select one)	
At minimum heat output	el <sub>min</sub>	N/A	kW	Single stage heat output and no room temperature control	[no]
In standby mode	el <sub>SB</sub>	N/A	W	Two or more manual stages, no room temperature control	[no]
				With mechanic thermostat room temperature control	[yes]
				With electronic room temperature control	[no]
				Electronic room temperature control plus day timer	[no]
				Electronic room temperature control plus week timer	[no]
				Other control options (multiple selections possible)	
				Room temperature control, with presence detection	[no]
				Room temperature control, with open window detection	[no]
				With distance control option	[no]
				With adaptive start control	[no]
				With working time limitation	[no]
With black bulb sensor	[no]				
Contact details:	HydroGarden Ltd. 2 Progress Way, Binley, Coventry, CV3 2NT, UK www.hydrogarden.com   +44 (0)24 7665 1500				
Remark: For electric local space heaters, the measured seasonal space heating energy efficiency cannot be worse than the declared value at the nominal heat output of the unit.					