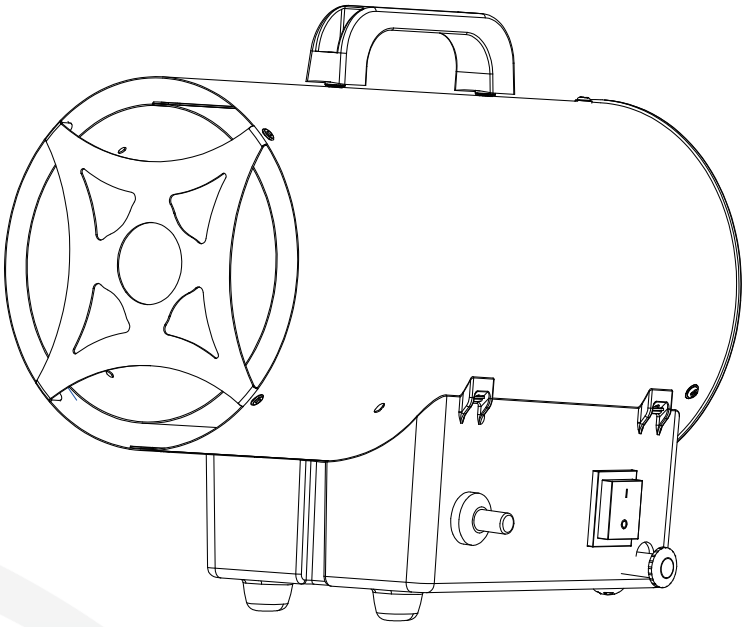
SGS-ENGINEERING.COM



SPAH15

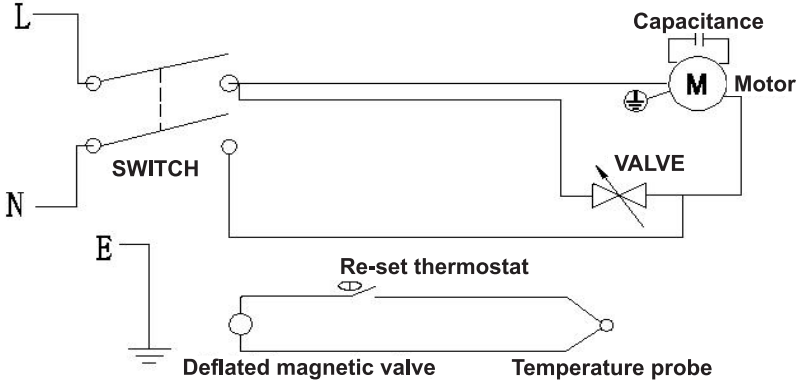
SGS Portable Air Heater 15KW

OWNER'S MANUAL

IMPORTANT! PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE ALL SAFETY INSTRUCTIONS AND WARNINGS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY CAUSE DAMAGE TO PROPERTY AND/OR PERSONAL INJURY.
PLEASE KEEP THESE INSTRUCTIONS SAFE AND AVAILABLE FOR FUTURE REFERENCE.

HEATER SPECIFICATIONS

Model	SPAH15
Rating	51,180BTU(15kw)
Fuel Consumption	1.09kg/h
Fuel Orifice Port Size	0.90mm
Air Flow Temp.	470℃
Type Of Gas	For use with LPG only
Gas Suppy Pressure	700mBar
Electricity Input	220-240V~50Hz
Ignition	Piezo
Primary Flame Control	Thermal Probe Operated Gas Valve
Overheating Protection	95℃
Insulation Grade	Class I



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

WARNINGS

YOUR SAFETY IS IMPORTANT TO YOU AND TO OTHERS, SO PLEASE READ THESE INSTRUCTIONS BEFORE YOU OPERATE THIS HEATER.

GENERAL HAZARD WARNING:

FAILURE TO COMPLY WITH THE PRECAUTIONS AND INSTRUCTIONS PROVIDED WITH THIS HEATER, CAN RESULT IN DEATH, SERIOUS BODILY INJURY AND PROPERTY LOSS OR DAMAGE FROM HAZARDS OF FIRE, EXPLOSION, BURN, ASPHYXIATION, CARBON MONXIDE POISONING, AND/OR ELECTRIC SHOCK.

ONLY PERSONS WHO CAN UNDERSTAND AND FOLLOW THE INSTRUCTIONS SHOULD USE OR SERVICE THIS HEATER.

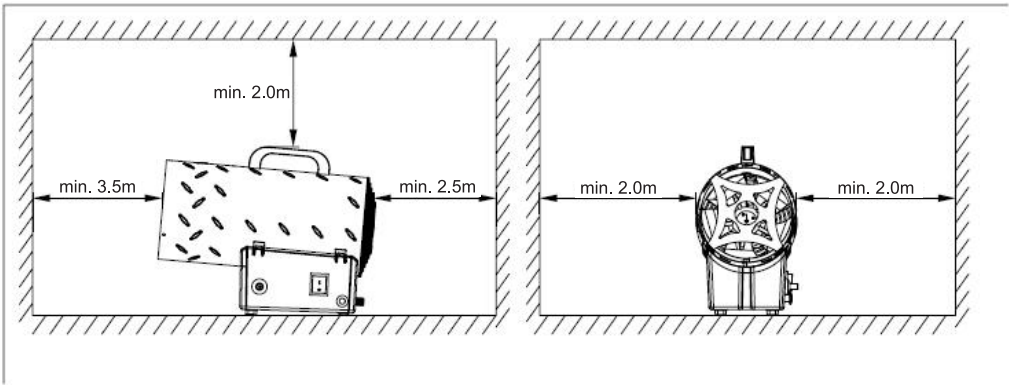
NOT FOR HOME OR RECREATIONAL VEHICLE USE.

• Use only in a well ventilated area and away from combustible materials
• NOT to be used for the heating of habitable areas of domestic premises, for use in public buildings, refer to national regulations.
• After use turn off the gas supply at the cylinder valve.
• Ensure that the fan is operating correctly before lighting the burners.
• This appliance should only be used by persons who have read these instructions, have a good understanding of the risks involved and have received training on how to use the heater safely. Persons with reduced physical, sensory or mental capabilities should be supervised when using the heater.
• Children should be kept away unless continuously supervised.
• CAUTION-Some parts of this product can become very hot and cause burns. Particular attention has to be given where children and vulnerable people are present.
• WARNING: In order to avoid overheating, do not cover the heater.



Safety Clearance

Ensure nothing passes or stands in front of the heater in the spaces as shown below:



• This heater must only be used outdoors or in well ventilated surroundings.
• For every KW it is necessary to have permanent ventilation of 25cm³, equally distributed between the floor and high level, with a minimum outlet of 250cm³.
• Gas cylinders must be used and kept in accordance with current regulations.
• Never direct the hot air flow towards the cylinder.
• Use only the supplied pressure regulator.
• Never use the heater without its cover.
• Do not exceed 100W/m³ of free room. The minimum volume of the room must be larger than 100m³.
• Do not obstruct the inlet or outlet sections of the heater.
• If the heater has to work for a long period at its maximum capacity, it's possible that ice will form on the cylinder. This is due to excessive vapour withdrawal. Not for this reason, or for any

other, should the cylinder be heated. Consult your gas supplier regarding the use of a multi-cylinder arrangement, as shown (Figure 1).

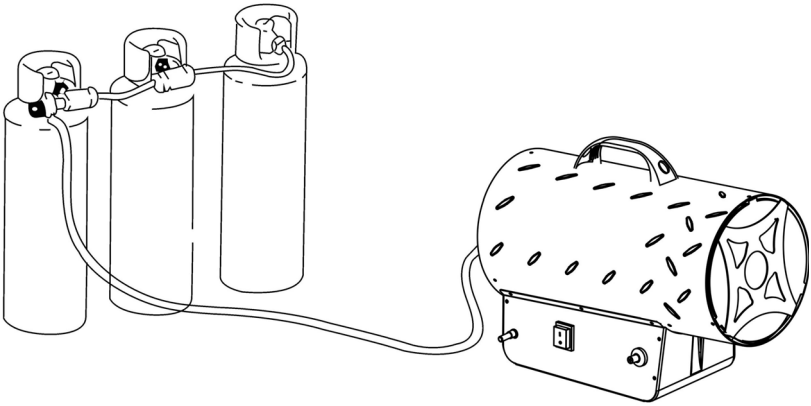


Figure 1

- Do not use the heater in cellars, basements or in any room below the ground level.
- In case of malfunction, please contact SGS Customer Service.
- After use, turn the gas cylinder tap off.
- The gas bottle must always be replaced following safety rules away from any possible source of ignition.
- The gas hose must not be twisted or bent.
- The heater must be placed where there is no risk of fire, the hot air outlet must be at least 3m from any flammable wall or ceiling and must never be directed towards the gas bottle.
- Only use original gas hose and spare parts.
- In the case that a gas leak is found or suspected, immediately close the gas cylinder, switch the heater off and do not use it again until it has been checked by a qualified service centre. If the heater is installed indoors, provide good ventilation by opening door and windows completely. Do not produce sparks or free flames.

1. INSTALLATION

1.1 Connect the heater to a suitable electric socket /230V~50Hz

1.2 Make sure that the machine is properly earthed.

1.3 Connect the gas supply hose to the pressure regulator and connect the regulator to a suitable LPG cylinder.

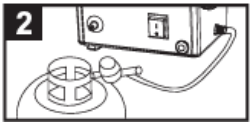
1.4 Open the tap of the cylinder and check the supply hose and fittings for gas leak. For this operation it is recommended to use an approved leak detector.

1.5 NEVER USE NAKED FLAMES.

2. INSTRUCTION FOR USE

PREPARING FOR OPERATION

1.Check the heater for possible shipping damage.



2.Connect the hose and regulator assembly to the LPG cylinder by rotating the nut counter-clockwise into the LPG cylinder's valve outlet and securely tighten.

3.Open the cylinder's gas valve and check all gas connections with a soap and water solution.

4.Connect the power cord to a well grounded 220-240V~, 50Hz source of power.

2.1 IGNITION / Manual ignition

a.Turn the power switch to position I and check that the fan starts running correctly (Figure 2).

b.Push the gas valve button and push repeatedly the Piezo ignition button until the flame lights up (Figure 3-4).



Figure 2

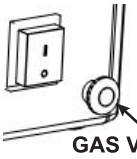


Figure 3

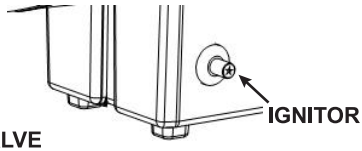


Figure 4

c.As the flame lights up, keep the valve button pushed for 10 seconds approx. Should the heater stop when the valve button has been released, wait one minute and repeat the starting operation keeping the valve button pushed for a longer time.

d.Regulate the gas flow pressure according to the thermal power desired, by adjusting the regulator anticlockwise to increase the pressure or clockwise to decrease.

CAUTION

If ignition is difficult or irregular before repeating the ignition operations make sure that the fan is not locked and the air inlet and outlet are unobstructed.

2.2 SWITCHING OFF

To stop the heater, shut off the gas cylinder tap. Let the fan run until the flame shuts down and then turn the fan switch to position 0.

2.3 AIR CONDITIONING

a. The heater can also be used as a ventilator.
b. In this case remove the gas supply hose and connect the plug of heater to a suitable electrical supply.
c. Set the fan switch to position I.

ODOR FADE WARNING

! ! ! **WARNING**

Asphyxiation Hazard

1.Lack of proper ventilation air will lead to improper combustion.
2.Improper combustion can lead to carbon monoxide poisoning leading to serious injury or death. Symptoms of carbon monoxide poisoning can include headaches, dizziness and difficulty in breathing.

3. MAINTENANCE

3.1. The repairs or maintenance operations must only be carried out by qualified personnel.
3.2. The unit must be checked by a qualified technician at least once a year.
3.3. Regularly check the conditions of the gas hose and gas regulator. If it must be replaced only use original spare parts.
3.4. Before starting any maintenance operation on the heater disconnect from both gas and electrical supplies.
3.5. If the unit has not been used for a long period we advise that a technician carries out a general check up before using. It is important to control the following:
3.5.1. Periodically check the gas supply hose conditions and, should it be changed, use only original spare parts.
3.5.2. Check the starting electrode position (see Figure.5).

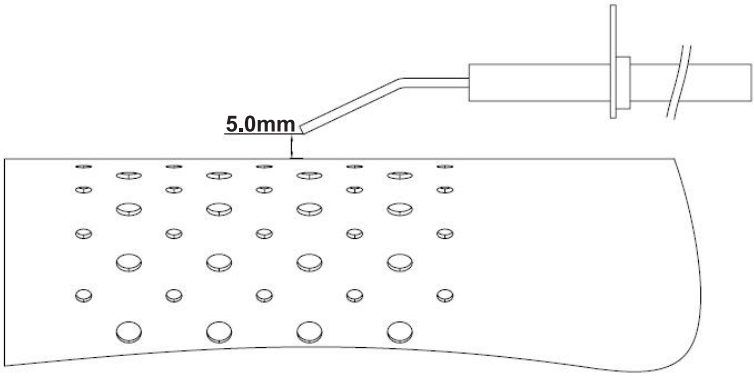


Figure 5

3.5.3. Check the connections of the safety thermostat and of the thermocouple: they must always be clean. If necessary clean the fan blade and the inside of the heater using compressed air.

5. TROUBLESHOOTING

PROBLEM	CAUSES	SOLUTIONS
The motor does not work	No electricity supply	Check the terminal board with a tester
	The safety thermostat is on	Wait about one minute then restart
The motor works, but the burner does not light up and after few seconds the heater stops	The cylinder gas tap is closed	Open the gas tap
	The cylinder is empty	Use a new cylinder
	The nozzle is obstructed	Remove the nozzle and clean it
	The solenoid gas valve is not open	Check that the solenoid valve works
	There is no spark	Check the position of electrode
The burner lights up but after few seconds the heater stops	No connection with the earthing system	Check and connect properly
	Defective connection between sensor and safety device	Check and connect properly
	Defective safety device	Replace the safety device
The heater stops during operation	Excessive gas supply	Check the pressure reducer and if required replace it
	Insufficient air flow	Check that the motor works properly
	Insufficient gas supply due to ice formation on the cylinder	Check and use a larger cylinder or two cylinders connected together.

Information

Indirect heat output: N/A (kW)			
Direct heat output: 15 (kW)			
Fuel	LPG	Nitrogen oxides(NOx) emissions	
		Valve	unit

Item	Symbol	Valve	Unit
Heat output			
Nominal heat output	Pnom	15.0	kW
Minimum heat output (indicative)	Pmin	N/A	kW
Auxiliary electricity consumption			
At nominal heat output	el_{max}	0.07	kW
At minimum heat output	el_{min}	N/A	kW
Power consumption			
In off-mode	P0	N/A	W
In standby mode	Psm	N/A	W
In idle mode	Pdle	N/A	W
In networked standby mode	Pnsm	N/A	W
Standby mode with display of information or status		[no]	
Permanent pilot flame power requirement			
Pilot flame power requirement (if applicable)	Ppilot	0	kW

Item	Symbol	Valve	Unit
Efficiency (NCV)			
Useful efficiency at nominal heat output	ηth,nom	100	%
Useful efficiency at minimum heat output (indicative)	ηth,min	N/A	%
Seasonal space heating energy efficiency	ηS	74.9	%

Item	
Type of heat output/room temperature control	
Single stage heat output, no room temperature control	yes
two or more manual stages, no room temperature control	no
mechanic thermostat room temperature control	no
electronic room temperature control	no
electronic room temperature control plus day timer	no
electronic room temperature control plus week timer	no
Other control options	
room temperature control, with presence detection	no
Room temperature control, with open window detection	no
distance control option	no
adaptive start control	no
working time limitation	no
black bulb sensor	no
Self-learning functionality	no
Control accuracy	no

SGS Engineering (UK) Ltd
Unit 1 West Side Park
Raynesway
Derby, DE21 7AZ

EC Declaration of Conformity

This is an important document and should be retained

MANUFACTURER'S NAME: SGS Engineering (UK) Ltd

TYPE OF EQUIPMENT: Portable Air Heater

PART NUMBER: SPAH15

APPLICATION OF EC COUNCIL DIRECTIVES / STANDARD:

EN 60335-1:2012+A11+A13+A1+A14+A2+A15+A16
EN IEC50335-2-102:2024+A11
EN 60335-2-102:2016
EN 62233:2008

I, the undersigned, hereby declare that the equipment specified above conforms to the above European Communities Directive(s) and Standard(s).

PLACE: Derby, UK

DATE: 20th July 2026



(Signature)

Neil Sansom
CEO

CE