

# Sunflame®



L.P.G. WATER HEATER

SF-5004



# Sunflame®

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write in at the above address.

[www.sunflame.com](http://www.sunflame.com)

## Instruction Manual

## CAUTION!

**This water heater must be installed and used in a well ventilated area, outside a bathroom.**

**If in case this product is used in a room / bathroom, the room must be properly ventilated and it must be ensured that a suitable outlet pipe (not included) is connected to the exhaust flue of the product, in order to throw-out the carbon mono-oxide and other fumes produced during operation.**

**Please note that any accidents / unfavourable consequences arising out of non-compliance of the above and other important instructions mentioned in this manual will be the sole responsibility of the customer / consumer / user / operator and the company 'will not be' / 'cannot be' held responsible for any such consequences, injury or damage.**

## IMPORTANT SAFEGUARDS

When using any appliance, basic safety precautions should always be observed, including the following:

1. Read the instruction manual carefully, before using the appliance.
2. This product must be installed by authorised technician of the company.
3. Before use, please check that the gas supply at your home matches with the specifications mentioned on the rating label of the heater.
4. Please note that this product has been designed to operate only on LPG. Do not use any gas other than LPG. This is very important in order to avoid an accident or damage.
5. It is always advisable to install the gas water heater outside the bathroom/room.
6. If in case the product is to be used inside a bathroom, you must ensure to connect a suitable outlet pipe (not supplied) with the exhaust of the product, in order to throw-out the carbon mono-oxide and other fumes produced during operation. This is very important to avoid any accident. Any leniency in following this instruction may even cause death.
7. In addition to the above, the bathroom / room must be properly ventilated and the use of an exhaust fan is also advisable.

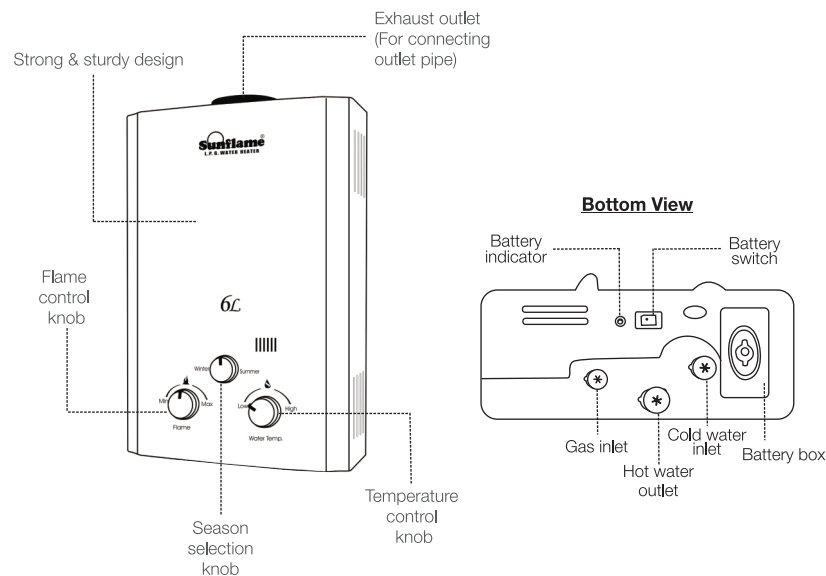
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8. Please ensure that all the connections, i.e. gas inlet, water inlet, water outlet etc. are made correctly as per the markings on the gas water heater and are fastened properly. There should not be any leakage in the connections.
9. Before every use, ensure that there is no gas leakage from the supply / gas inlet connection. One must regularly check all the gas pipe connections / joints with warm soapy water to ensure that there is no gas leakage.
10. If at any time you smell gas, turn off the gas valve at once and open all the windows and doors to allow the gas to escape. Do not operate any electrical switch during this time.
11. Always check / feel the temperature of the hot water coming out of the water outlet with your hand first to avoid any burns or scalding.
12. Some parts of the gas water heater can become very hot during operation. Always use the control knobs to avoid any burns.
13. In order to prevent any gas leakage/accident, always shut-off the main gas supply after every use.
14. Please make sure that any wire, pipe or hose should not pass from behind or on top of the gas water heater. Also ensure that the hose or pipe should not touch the hot surface of the appliance to avoid damage.
15. This appliance has been designed to shut off automatically after 20 minutes of continuous usage. In this case, give the appliance some time to cool down before operating it again.
16. During winter, if the water temperature goes below 0°C, please drain the water from the water heater completely through the drain valve (available in selected models) in order to avoid damage to the heater due to freezing (and expansion) of the water.
17. Please make sure that there are no flammable, explosive or corrosive substances / liquids stored around / near / or in the room where this appliance is being used.
18. Please ensure that there should not be any bath shower curtains or any other loose cloth or plastic items installed / placed near this product.
19. This appliance must not be used by children and close supervision is necessary when the appliance is being used near children.

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20. Children should be supervised to make sure that they do not play with the appliance.
21. Do not operate the appliance if it has been damaged in any manner. Take the appliance to the nearest authorized service center for examination and repair.
22. Never splash / pour water on the appliance in order to clean it. Always use a soft dry cloth to wipe clean the appliance.
23. Do not use a metal scouring pad or any corrosive or harsh chemicals to clean the appliance as this will damage the appliance beyond repair.
24. Allow the appliance to cool down completely before attempting to clean it.
25. Do not use the appliance for other than the intended use.
26. This appliance is meant for household use only.
27. Save this instruction manual for future reference.

## KNOW YOUR PRODUCT



Note: -

The connections shown above are indicative. Please ensure that all the connections, i.e. gas inlet, water inlet, water outlet etc. are made correctly as per the markings on the gas water heater and are fastened properly.

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## OPERATING INSTRUCTIONS

Note: -

This product must be installed by a qualified person. Please note that this product has been made to operate on LPG only. Please make sure that all the connections are correctly and properly fastened. Please ensure that the area where this product is being used is 'very' well ventilated.

1. Place two 1.5V batteries in the battery box.
2. Check that there is no leakage in any of the connections.
3. Turn the gas inlet valve to 'On' position.
4. Now turn the water inlet valve to 'On' position, you will hear a clicking sound of the auto-ignition device and the burner will ignite automatically. Hot water will start flowing out of the water outlet continuously.
5. Please note that the minimum water pressure required to operate this device is 0.025 MPa.
6. Switch between 'Winter' and 'Summer' positions during the relevant season for different temperature hot water. At the 'Winter' position, the burner will operate at full force.
7. Turn the gas control knob between 'Min' and 'Max' to adjust the intensity of the flame as per your requirement.
8. Turn the water control knob between 'Low' and 'High' to adjust the water flow as per your requirement. Please note that at 'Low' position, the water flow will be more and water temperature will be low. At 'High' position, the water flow will be less and the water temperature will be high.
9. In order to turn off the appliance, turn the water inlet valve to 'Off' position, the burner will shut off automatically.

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10. Now turn the gas inlet valve to 'Off' position.

11. This appliance has been designed to shut off automatically after 20 minutes of continuous usage. In this case, give the appliance some time to cool down before operating it again.

12. While switching on the appliance, you will notice a LED light flashing at the bottom. If in case you notice that the light has become dim, you must immediately replace the exhausted batteries with the new ones.

13. After every use and when not in use, always ensure to keep the gas inlet valve at 'Off' position.

## CLEANING AND MAINTENANCE

- Always clean the appliance after every use.
- Please ensure that the appliance has cooled down before attempting to clean it.
- Use a damp cloth to clean the appliance and then wipe it dry with a soft dry cloth.
- Never splash/pour water on the appliance in order to clean it.
- Never use a metal scouring pad or any corrosive or harsh chemicals to clean the appliance as this will damage the appliance beyond repair.
- In case of any malfunction or damage, never try to repair the appliance by yourself. This can be very dangerous. Always contact the nearest authorized service center for necessary repair.

## NOTE

In view of continuous improvement, the design, specifications and features of the product are subject to change without prior notice.

## TROUBLE SHOOTING

Maintenance and repair guide to common malfunctions

Causes	Malfunction	A	B	C	D	E	F	G	H	I	J	Solutions	
Improper Operation	Overall fuel gas valve is unopened	•										Open overall valve of gas supply	
	Water supply valve unopened	•										Open valve of water supply	
	Improper regulation method of water temperature					•	•					D. Increase gas volume, Reduce water volume E. Reduce gas volume, Increase water supply	
	Electrical leakage protective switch not restored	•										Restoration of electric leakage protective switch	
	Improper position of water switch	•										Turn water knob to hot water point	
Surroundings	Air exiting inside fuel gas pipe	•	•									Repeat opening and closing hot water valve for several times	
	Inadequate fresh air supply			•								Improve ventilation and ensure air supply	
Fuel gas pressure	Too high	•	•			•		•				Regulate pressure relief valve, reduce overall gas supply	
				•	•				•			Check if gas rubber pipe is twisted or not	
	Too low				•							Reduce water- supply	
		•	•			•			•	•		Operate when water pressure recovers to normal	
	Gas valve is half opened				•								Open gas valve completely
					•								Shorten rubber pipe
					•								Replace joints of rubber pipe
					•								Water heater with a content of over 8 liters shall adopt a pressure relief valve (LPG) of 1.2m <sup>3</sup> /h
	Inadequate Supply Of fuel gas	Improper choice of specification of pressure relief valve	•			•							Water heater with a content of over 8 liters shall adopt a pressure relief valve (LPG) of 1.2m <sup>3</sup> /h
		Simultaneous consumption of fuel gas by several users				•							Stop other users 'using fuel gas
	Blockage of water route		•				•						Clean filtration net on water admitting orifice
	Blockage of shower		•				•						Clean shower device
	Blockage of vent pipe		•	•				•					Clean flue pipe
	Inadequate battery voltage		•	•	•								Replace batteries
Too low water temperature					•							Reduce water volume	
Safety protection	Exorbitant air pressure protective device	•		•								Operate when air pressure recovers to normal	
	Electrical leakage switch works	•		•								Ask for professional personnel to repair it	
	Heat protective switch works			•								Reopen hot water valve	
	20 minutes timing protective device works			•								Reopen hot water valve	
Other causes												Ask for professional personnel to repair it	

- A.** Ignition failure **B.** Blasting combustion **C.** Flameout during operation **D.** Too low temp.  
**E.** Too high temp. **F.** Sparks from fire peep hole **G.** Removed flame and renegade fire  
**H.** Returned fire **I.** Flameout at point of large water volume **J.** Other malfunctions