



Heatsource HS2000E  
Gas and Electric  
Space Heater



Operation Instructions  
From April 2018

## USER INSTRUCTIONS

Read the following carefully before installation

### SPECIFICATION

Model: HS0011

Maximum dimensions: Height: 115 mm, Width: 200 mm, Length: 570 mm

Countries of Destination:

AT,BE,BG,CH,CY,CZ,DE,DK,EE,ES,FI,FR,GB,GR,HU,HR,IE,IS,IT,LT,LU,LV,MT,NL,NO,PT,SE,SI,SK  
,TR

Weight: Inside vehicle installation 6.3 kg

Gas: Butane 28-30mbar - CAT I<sub>3+</sub> (28-30/37), Butane/Propane 30mbar - CAT I<sub>3B/P</sub> (30)

Propane 37mbar - CAT I<sub>3p</sub> (37)

Gas Consumption (M) 148g/h

Classification of Heater: Type: C<sub>53</sub> (Fanned)

Nominal heat input: Gas 2.0kW

Nominal heat input Electric 2.0kW.

Mains Electric:

Nominal voltage: 230V a.c. 50Hz

Power options: 500/1000/2000W

Maximum current a.c.: 9 Amps

Battery Supply

Nominal voltage: 12V d.c.

Operating range: 10.0V d.c. min. to 15V d.c. max.

Maximum current d.c. gas operation: 1.8 Amps (0.01Amps on standby)

Maximum current d.c. electric operation: 2.4 Amps (0.01Amps on standby)

Dry Storage temperature: -20°C to 70°C

Hot air duct diameter: 60mm ID

Flue diameter: 22mm ID

Maximum exhaust flue length: 2m

Minimum exhaust flue length: 0.75m

Maximum air flue length: 2.00m

Minimum air flue length: 1.00m

Ensure the position allows access for servicing the Space Heater and that there is a minimum of 25mm distance around the heater to adjacent walls when mounted inside the vehicle.

Propex's policy is one of continuous improvement and we reserve the right to change specifications without prior notice.

#### 4. WARNINGS

The Propex Space Heater has been designed for caravan, motor home and mobile applications, and is more than adequate for typical recreational vehicle use. The Propex Space Heater is designed to be installed in conjunction with a ducted hot air system.



This symbol indicates that this appliance is suitable for use in Leisure Accommodation Vehicles.



This symbol indicates that this appliance is suitable for use in boats when the correct flue terminal is used.

Observe all warnings.

In the unlikely event of leaks in the gas system, or if there is a smell of gas:

- Extinguish all naked flames
- Do not operate any electrical switches
- Turn off all gas appliances
- Open windows and doors for ventilation
- Do not smoke
- Shut off gas connection

Get the system thoroughly checked by a registered gas engineer.

- The space heater shall not be operated in the following situations:
  - When refuelling the vehicle, the vehicle towing the caravan, or other appliances
  - When the vehicle in which the heater is installed is in motion.
  - When the vehicle in which the heater is installed is in a confined space such as a garage

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

Ensure that a minimum of one hot air outlet vent is permanently open at all times. This should ideally be the first outlet and not more than approximately 1 metre from the heater.

Any alteration to the appliance, including flue components, use of non-Propex spare parts/accessories and non-observation of the installation and operation instructions shall lead to cancellation of the warranty and exclusion of liability claims and results in it becoming illegal to use the appliance.

Please note that incorrect installation, misuse or use of non original Propex parts may invalidate the warranty. It also becomes illegal to use the appliance if incorrectly installed, and in some countries this even makes it illegal to use the vehicle.

When operating using gas, the combustion air flue and outlet opening for the products of combustion (exhaust flue) shall never be obstructed. They should be checked regularly, and if necessary cleaned by the user (e.g. in winter, snow shall be removed from the combustion outlet and air intake).

Where the open end of the exhaust flue terminates, three sides of the under-floor space are to be kept open and not obstructed, and not contain through floor ventilation openings.

The heater, its gas supply, and flues for the products of combustion are to be inspected in accordance with national regulations or if these do not exist, the manufacturer's recommendations, however, it is advised that this should be done at least annually.

**Please Note:** The heater and ducts will become hot. Please avoid anything directly touching the heater or ducts.

## INSTRUCTIONS FOR USE

To the User:

Read the following instructions carefully.

### **Observe all warnings.**

In the unlikely event of leaks in the gas system, or if there is a smell of gas:

- Extinguish all naked flames
- Do not operate any electrical switches
- Turn off all gas appliances
- Open windows and doors for ventilation
- Do not smoke
- Shut off gas connection

Get the system thoroughly checked by a Propex Approved Service Centre / Technician.

- The space heater shall not be operated in the following situations:
  - When refuelling the vehicle, the vehicle towing the caravan, or other appliances.
  - When the vehicle in which the heater is installed is in motion unless fitted with the correct flue terminal.
  - When the vehicle in which the heater is installed is in a confined space such as a garage.

**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.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

Ensure that a minimum of one hot air outlet vent is permanently open at all times. This should ideally be the first outlet and not more than approximately 1 metre from the heater.

When operating using gas, the combustion air flue and outlet openings for the products of combustion (exhaust flue) shall never be obstructed. They should be checked regularly, and if necessary cleaned by the user (e.g. in winter, snow shall be removed from the combustion outlet and air intake).

Where the open end of the exhaust flue terminates, three sides of the under-floor space are to be kept open and not obstructed, and not contain through floor ventilation openings.

The heater, its gas supply and flues for the products of combustion are to be inspected in accordance with national regulations or if these do not exist, the manufacturer's recommendations, however, it is advised that this should be done at least annually.

The Propex Space Heater should be checked periodically by a Propex approved Technician, or competent person, at least annually. This should be completed according to the practice in the country where it is used and according to the Propex instructions. We recommend annual testing of gas soundness and combustion by an accredited LPG gas engineer. The appliance contains ESD sensitive components and therefore should only be opened by Propex.

The inlet vents of the heater should never be blocked and ensure that a minimum of one hot air outlet vent is permanently open at all times.

## OPERATING INSTRUCTIONS

For operation of the heater, a 12V d.c. supply must be connected at all times. To operate the heater's electric elements, it must also be connected to a suitable 230V a.c. supply.

**Fan only operation.** Turn the selector knob to the fan on () position.

**Gas operation.** Turn the selector knob to the gas on (flame) position. There will be a pre-purge pause of approx. 30 sec's to allow any un-burnt gas to leave the flue. A green LED will light upon successful flame ignition. If there is air in the gas supply line it may take a few attempts for the gas to ignite. See section 9 for gas lockout re-setting. If the ignition is not satisfactory the red LED will flash, refer to the trouble shooting guide (see section 9).

**Electric operation.** The space heater is equipped with 3 power settings 500W / 1000W / 2000W. Turn the selector knob to low power setting (~) for 500W. Turn the selector knob to medium power setting (≈) for 1000W. Turn the selector knob to high power setting (≈≈) for 2000W. When operating on low and medium electric power settings the blown air fan runs at a reduced speed to minimise noise and current draw.

**Note:** The electric elements will still operate if the appliance is in gas ignition lock-out.

The appliance cannot be operated simultaneously with both gas and mains electric heating.

**Switching appliance off.** Turn the selector knob to the Off position (●). Note that the fan will continue to run for 3 minutes to allow the heater to cool down.

**Adjusting the temperature.** Turn the temperature control knob clockwise to increase and anti-clockwise to reduce the room temperature. The heater will automatically turn itself on and off to maintain the desired ambient temperature. Note that the controls incorporate a low frost protection setting. This can be activated by turning the temperature control knob fully anti-clockwise.

## 8. MAINTENANCE

If the heater has not been used for some time dust may have settled inside the heater and the ducting. Run the heater on the "Fan only" setting until it clears. The outside of the appliance should not normally require cleaning. If it does, isolate the electrical supplies and wipe down with a soft, damp cloth only. Allow to fully dry before reconnecting the electrical supplies.

The Propex Space Heater should be checked periodically by a competent person, at least annually. This should be completed according to the practice in the country where it is used and according to the Propex instructions. We recommend annual testing of gas soundness and combustion by an accredited LPG gas engineer. The appliance contains ESD sensitive components and therefore should only be opened a Propex.

## 9. TROUBLE SHOOTING

The heater is equipped with an electronic diagnostic system which will detect fault conditions ranging from poor gas or d.c. supply to internal heater malfunctions. In the unlikely event of a failure, the red light on the control panel will flash a number of times, pause, and repeat until switched off. Count the number of flashes and refer to the table below.

Number of flashes	Fault	Remedy
1	No flame detected	Check gas supply making sure there is gas in the bottle and no blockage in the gas line. Ensure propane is used at temperatures below +5°C. Clear lockout as described below.
2	Overheat	Check the air ducts and vents are not blocked or restricted. We recommend you wait at least 5 to 10 minutes to allow the heater to cool before clearing lockout as described below.
3	Low/high supply voltage	Minimum operating voltage is 10V, maximum is 15V, when measured at the heater. Check battery voltage. If between 10V and 15V, check connections between heater and battery. Check alternator or external battery charging. Clear lockout as described below.
4	Combustion Air Fault	Check combustion air flue and exhaust flue for blockages.
5	Other / internal fault	Attempt to clear lockout as shown below. If this fails, contact Propex.
Solid	General	Two faults have occurred at the same time OR more than 5 lockout clearing attempts have been unsuccessful. Clear lockout as described on page 15.
No Flashing	PCB not powered up	Check the supply to the heater as above. Otherwise contact Propex.

### Lockout Clearing Procedure

The lockout must be cleared by turning the 'Fan Only' setting on the control panel, 'on', 'off' and 'on' again within 2.5 seconds. If the first lockout reset attempt is unsuccessful, you can retry an additional 4 times. If the lockout still will not clear (identified by a solid LED), please turn off the heater, check the heater for faults, power up the heater and then further lockout reset attempts can be made.

If the problem persists contact **Propex**.

## 10. WINTERISING

When using the heater in winter ensure the flues are not blocked by snow or fallen leaves etc. When the Space Heater is not going to be used for a long period of time, we recommend that the open end of the combustion air and exhaust flue are covered to prevent ingress of leaves etc.

## 11. EU DECLARATION OF CONFORMITY

Description of Equipment: **Gas and Electric Space Heater**

### **Manufacturer's Declaration**

We hereby declare, under our sole responsibility, that the above equipment complies with the provisions of the following EC Directives.

### **This product complies with the following directives and standards:**

Gas Appliance Regulation (EU) 2016/426 (GAR) on the approximation of the laws of the Member States relating to appliances burning gaseous fuels.

Low Voltage Directive 2014/35/EU on the harmonization of the laws of the Member States relating to electrical equipment designed for use within certain voltage limits.

Electromagnetic Compatibility Directive 2014/30/EU, on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Automotive EMC Directive 2004/104/EC (latest amendment 2009/19/EC) as per regulation 10.05

CE mark first affixed: **November 2009**

### **Basis on which conformity is declared**

The above equipment complies with the protection requirements of the EMC Directive and the principal elements of the safety objectives of the Low Voltage Directive

This product complies with all relevant European directives and standards. Please contact Propex if further details are required.

## **PATENTS AND TRADEMARKS**

The Propex Space Heater is protected by the following patent and design registration applications:

UK Patent application number: 0915825.4

### **WARRANTY**

The Propex Space Heater is covered by a 3 year warranty.

Please complete the enclosed warranty card and return to Propex.

Manufactured by Munster Simms Engineering Ltd.

Distributed by: Propex Heating and Leisure Ltd  
Unit 10, Carvers Trading Estate, Ringwood,  
Hampshire, BH24 1JS

Telephone: +44(0) 1425 486 950  
Website: [www.propexheatsource.co.uk](http://www.propexheatsource.co.uk)  
Email: [info@propexheatsource.co.uk](mailto:info@propexheatsource.co.uk)