

# 2000 HEATSOURCE 2800

<b>BLOWN AIR</b>
<b>CLIMATE CONTROL</b>
<b>SYSTEMS</b>
Specifically engineered for motor homes, small boats and utility vehicles



ENGINEERED FOR  
COMFORT & RELIABILITY

The HS2000 and HS2800 heaters are automatic thermostatically controlled blown air heating systems fuelled by propane or butane gas. Heatsource is designed for a variety of automotive and marine applications as a source of heat totally independent of the engine.



### Special Features:

- ☛ Runs on clean burning propane or butane gas
- ☛ Quiet thermostatic operation
- ☛ Digital timer thermostat available
- ☛ Stainless steel burner and heat-exchanger with clean combustion gives maintenance free durability
- ☛ Low electrical current consumption
- ☛ Compact and easy to install
- ☛ Fast warm-up time
- ☛ Reduces condensation
- ☛ High quality motor with ball race bearings
- ☛ Advanced micro-processor electronics
- ☛ Self diagnostic fault finding system
- ☛ Fully CE compliant and tested to the latest European standards

### APPLICATIONS

Propex Heatsource blown air systems are used in many applications throughout the world, these include Motorhomes, Caravans, Boats, Cranes, Horseboxes, Mobile Workshops etc. Both 12 and 24 volt versions are available.

### EFFICIENCY

With forced air combustion and the Propex two stage stainless steel heat-exchanger, the HS2000 and HS2800 are a clean and highly efficient way to heat your vehicle or boat. Air for combustion is taken from outside and passed into the combustion chamber having been mixed with gas during three aeration stages, it is ignited automatically and heats up the large surface area of the heat-exchanger. The Heatsource units are totally room sealed and exhaust all products of combustion externally through the neat 22mm i.d. stainless steel flue pipe. To add to the efficiency, cabin air is normally re-circulated in preference to using cold air from outside. The HS series heaters are also very efficient on electrical current consumption. The high quality motor/fan combination and innovative current reducing electronics, both of which have been improved in the latest versions, means that even the larger HS2800 draws less than 2 amps during normal operation.

### CONTROL

Both the HS2000 and HS2800 are supplied as standard with a solid state electronic thermostat which automatically switches the unit on and off to maintain the desired temperature. When the room temperature drops below the selected level, the Heatsource will automatically ignite and run until the cabin reaches the selected temperature. The thermostat is an easy to fit surface mount design and integrates with the new electronics fitted to the HS2000 and HS2800 heaters. An easy to operate, panel mounted digital timer/thermostat specifically designed for heatsource, is also available. Unlike some heaters, there is minimal electrical current consumption during ignition, so cycling the Heatsource on and off does not have the effect of additional battery drain.



## QUIET OPERATION

Propex heaters are designed to be quiet in operation without compromising air throughput and heat output. There will always be some air noise from a system that produces a healthy throughput of air, however, by using high quality balanced fans and smooth enclosed motors with ball race bearings, noise is kept to a minimum. Noise is also unaffected by high voltage, a common occurrence with battery chargers, solar panels etc permanently wired. The micro-processor electronics regulates the motor voltage so that the fan speed does not alter from 10 to 15 volts.

## SAFETY

Heatsource blown air heaters conform to the latest European standards for both the appliance and electronics and during this rigorous testing the focus is very much on safety. The heaters also have to comply with an enhanced version of the Electro Mechanical Compatibility Directive to ensure they do not interfere with other electronics and that they are immune from interference by other electronics.

The intelligent electronics are continuously monitoring the operation of the heater to make sure everything is operating correctly and safely. This includes monitoring of the flame, case temperature, combustion airflow, gas solenoid valve and voltage. Should any of these stray outside of the predetermined levels, the heater will be switched off and the red light on the thermostat will indicate a fault by flashing a certain number of times.

## INSTALLATION

Both the HS2000 and HS2800 are supplied with complete fitting kits to suit either vehicle or marine applications. In vehicles and caravans the unit is usually mounted in a bed-box or cupboard, flued downwards through the floor and out to the side of the vehicle using flexible stainless ducting. These ducts (22mm i.d. for the HS2000 and 26mm i.d. for the HS2800) are supplied as standard in lengths of 750mm for vehicles and 1 metre for boats. The ends are finished with neat stainless steel end-caps which comply with EN624. The heat is ducted to one or more outlets through tough highly flexible 60mm or 76mm ducting. In the case of multi-outlet installations, the first outlet is an open outlet with directional control and the rest are closable and are used in conjunction with the appropriate sized plastic Y-branches. Marine applications feature an attractive polished stainless steel through hull fitting which accepts the stainless steel pipes for the flue outlet and the combustion air inlet. Extra ducting and stainless steel bulkhead mounting brackets are also part of the marine fitting kits.

## KIT FITTINGS



Hot air outlets with directional control



Y Branch



APK marine hot air ducting



Caraflex vehicle hot air ducting



Flexible stainless steel flue pipe

## OPTIONAL EXTRAS



Closeable hot air outlets with directional control



Marine through hull fitting



Timer/thermostat



**ECONOMY**

The chart below reflects the consumption of gas if the heater was running continuously. In reality, both heaters have similar very high efficiency ratings, so the overall gas consumption will be about the same because the HS2800 will be running for a shorter period of time before the thermostat switches it off.

	<b>HS2000</b>	<b>HS2800</b>
Average consumption	142 grams/hour	225 grams/hour
3.9kg propane cylinder	27.5 hours	17.5 hours
4.5kg butane	31.7 hours	20.0 hours
13kg propane	91.5 hours	58.0 hours
15kg butane	105.6 hours	67.0 hours
19kg butane	133.8 hours	84.5 hours
47kg butane	331.0 hours	209.0 hours
904 Camping gaz (1.81kg)	12.75 hours	8.0 hours
907 Camping gaz (2.72kg)	19.0 hours	12.0 hours

**TECHNICAL SPECIFICATIONS**

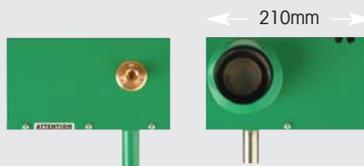
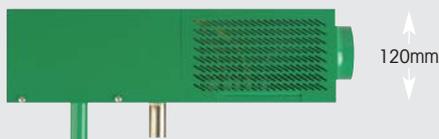
**HS2000**

Heat Input:	2,1kW
Heat Output:	1.9kW
Voltage:	12V or 24V versions
Current Consumption:	1.4A continuous running
Air Throughput:	60 C.F.M.
Fuel:	Butane or Propane Gas



**HS2800**

Heat Input:	3.0kW
Heat Output:	2.8kW
Voltage:	12V or 24V versions
Current Consumption:	1.9A continuous running
Air Throughput:	85 C.F.M.
Fuel:	Butane or Propane Gas



Propex reserve the right to change or modify features and specifications without notice.

**QUICK**

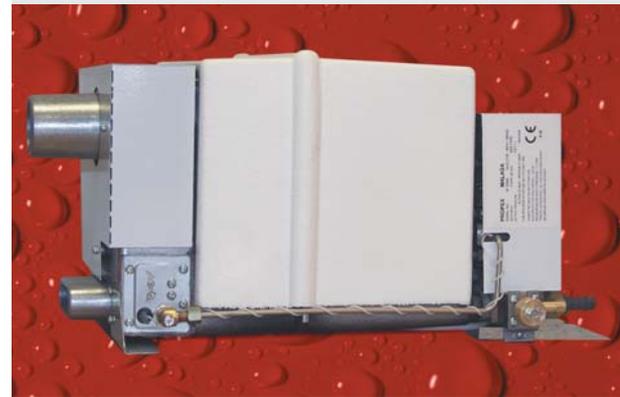
**EFFICIENT**

**WATER HEATER**

Specifically engineered

for touring vehicles

caravans and motor homes



This high capacity water storage heater is available in two versions, the standard Malaga with an efficient gas burner, and the Malaga E, which has the additional benefit of a 750 watt electric element. Both heaters can provide a quick and efficient supply of hot water for showering and washing in touring and motor caravans.



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