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longspeak - X

OUTDOOR HEATING BOILER & WATER CIRCULATION PAD

INSTRUCTION FOR USE

For your safety, please read the instructions carefully.

- **Please make sure that you read these instructions carefully before use.**
- **We shall not be held liable, in any way, to any accident arising from your unauthorized modification to this product.**
- **The exterior or specifications of this product may be subject to change without prior notice.**
- **Please note that damage to the label at the bottom shall lead to waiver of warranty**

I . Attention

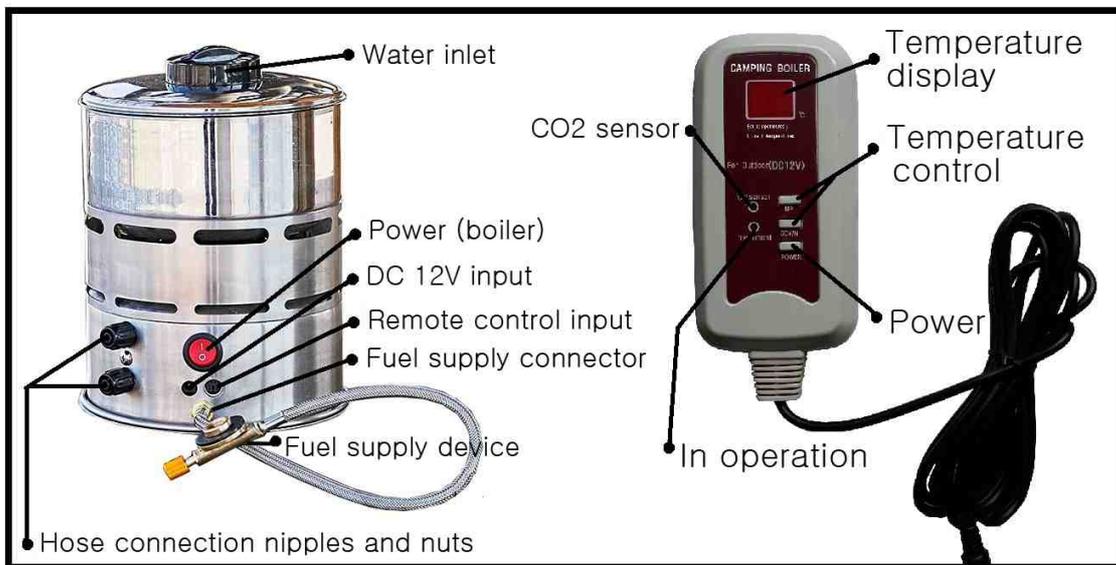
1. Make sure that no foreign object, filth, groundwater or seawater is in the boiler.
2. Make sure no overflowing takes place (0.24gal~0.26gal /0.9L~1L is recommended).
3. The boiler body must be installed outside the tent. There is a risk of oxygen depletion and toxic gas poisoning when installed inside the tent or sleeping place.
4. Absolutely not!
There is a risk of fire due to gas liquefaction (fuel liquefied leakage) when the gas cylinder is laid down or turned upside down.
5. In cold weather, the fuel may solidify and not ignite, so wrap the fuel tank 1~3 times with the heated water hose to prevent the fuel from solidifying. Butane solidifies at 32F/0C and isobutane (butane + propane mixture gas) below 14F/-10C.
6. If auto ignition is repeated but not ignited and only the ignition plug continues to operate:
 - ♣ Since the fuel is not supplied, please check the fuel condition such as fuel exhaustion or solidification.
 - ♣ If there is no abnormality in the fuel condition, the fuel supply adjusting valve may have been adjusted too high. Close the fuel supply adjusting valve completely and then open it again moderately.
7. Adjust the size of the flame properly. Too much flame can make a fire.
8. Do not heat directly to the fire to melt the solidified fuel.
9. Do not place flammable materials around the boiler.
10. Make sure that the hose connecting the pad and the boiler is not folded. If the hose or pad is folded, the water will not circulate and will not be heated.
11. Please note that setting too high a temperature may cause a low temperature

burns. It is recommended to set it below 40 °C.

12. After use, completely drain the water from the pad and boiler. Otherwise, it will be frozen and unusable when you use it next time.

13. Do not touch the boiler during use. Boiler housing (stainless) is very hot while heated and until cool down even after use.

II. Name of each part and specification



1. Hose connection nipples and nuts
Connect the hose from the pad to the boiler.
2. Water inlet
The lid is opened when turned to the left, and locked when turned to the right.
3. Power (Boiler)
4. D/C 12V input (DC 12V Ø5.5/2.1mm, 700mAh~800mAh consumption)
Connectable 12V battery pack, adapter or car electrical cigarette socket.
5. Remote control input (PS2 port)
The boiler be installed outside the tent and connected to the wired remote control for simple operation in the tent.
6. Fuel supply connector
Connect fuel to the boiler.
Specification: EN417 screw type with thread valve standard
For other specifications, use a nozzle convert adapter.
7. Fuel supply device
An automatic fuel supply and shutoff device is built in, which automatically feeds and blocks fuel according to the set temperature.
8. In operation
9. CO2 sensor
When carbon dioxide (CO2) is detected, the lamp will turn on and a beep will sound.
10. Temperature display
Setting temperature is displayed
11. Temperature control
1st button is to raise temperature. 2nd button is to lower. 3rd is power button.
Adjustable in 1 ° C increments up to 80 ° C.
12. Power (Remote control power)
13. Temperature display
Setting temperature is displayed

[Error code in temperature controller]

E0 : It is related with igniting.

For example, if igniting is not done despite power on and fuel supplying, this error code appears after repeated igniting trial.

If the igniting continues a few times more after fire starting, it is normal operating. All the product is operating by that mechanism.

E1 : Connecting problem between temp controller and boiler. Please make sure that connecting pin is plugged in properly.

CO2 : Temperature controller checks CO2 density every 3~5 minutes and shows this code if CO2 density is high.

It is very sensitive - so if you put it in the sleeping bag when use are inside it, CO2 code may appear.

Specification

LONGSPEAK- X		Portable Butane Gas Boiler & Mattress Automatic for 1~3 person
Dimension	Boiler	6.1 x 6.1 x 8.7in /155 x 155 x 220mm
	Mini pad	1.5ft x 4.4ft /460 x 1350mm
	Single pad	1.5ft x 5.6ft / 460 x 1700mm
	Double pad	3.4 x 6.7ft /1030 x 2030mm
	Triple pad	4.8 x 6.7ft /1450 x 2030mm
Weight	Boiler	3.7lb /1.7Kg
	Mini pad	2.6lb /1.2Kg
	Single pad	3 lb/1.35Kg
	Double pad	5.7lb / 2.6Kg
	Triple pad	6.6lb / 3Kg
Heating temperature	Boiler	63F/17C ~ 140F/60C or higher
	Pad	63F/17C ~140F/60C or higher
Material	Boiler	Stainless steel
	Pad	Polyester/Nylon/Silicon
Installation	Boiler	Outside sleeping place, freestanding
	Pad	Inside sleeping place or tent
Temperature controller		PS2 port
DC 12V adapter	Specification	Input port Ø5.5 /2.1mm 700mAh~800mAh consumption
	Substitute	Connectable 12V battery pack or car electrical cigarette socket
Input water		0.21~0.23gal /0.8~0.9L for mini pad
Fuel		N-butane or iso-butane (EN 417 screw connect required)
Fuel consumption		About 0.7oz/20g/hour for mini pad (at 104F/40C boiler water temp)
Ignition		Piezo electric
Max. heating time		11 hours (at 104F/40C, ambient temp 50F/10C, 8oz/230g iso-butane)
Heating area		21~64 ft ² /2~6m ²
Available mattress		Mini / single / Double / Triple
Working temp		Fuel working temperature
H.S. CODE		7321.82.0000
Additional requirements if used with other option: user's purchasing		<ul style="list-style-type: none"> - Extension water hose: Sold separately - 12V Li-ion battery and cable : 0.7A/hour - Gas press regulator (in case using propane) - Gas converter (in case using other cartridge except for EN417 screw type)

Connecting Application To Various Fuel

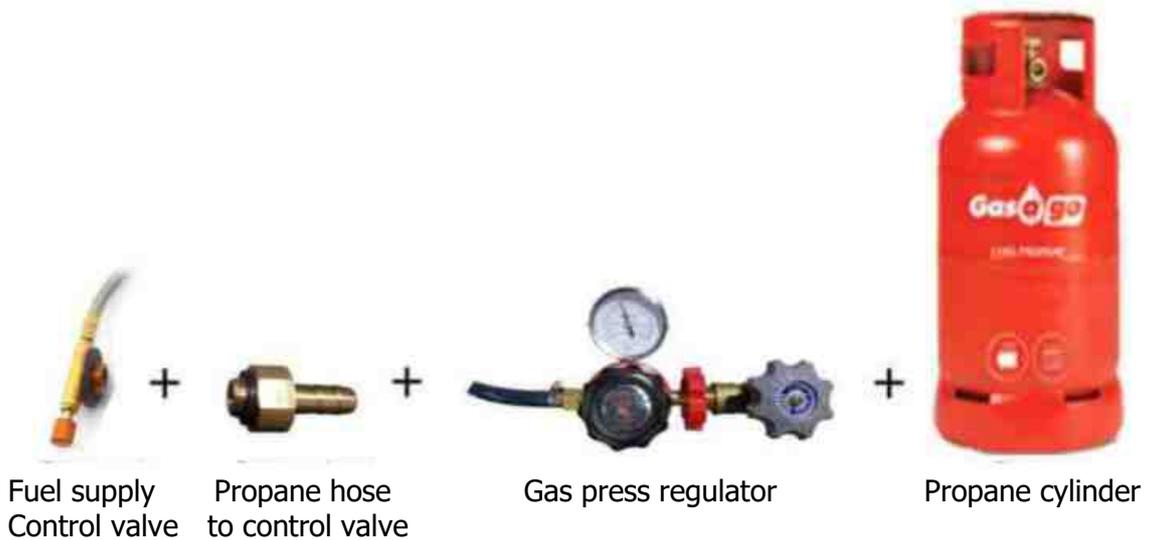
1.Connecting to Iso-butane



2.Connecting to N-butane



3.Connecting to propane cylinder



Product composition



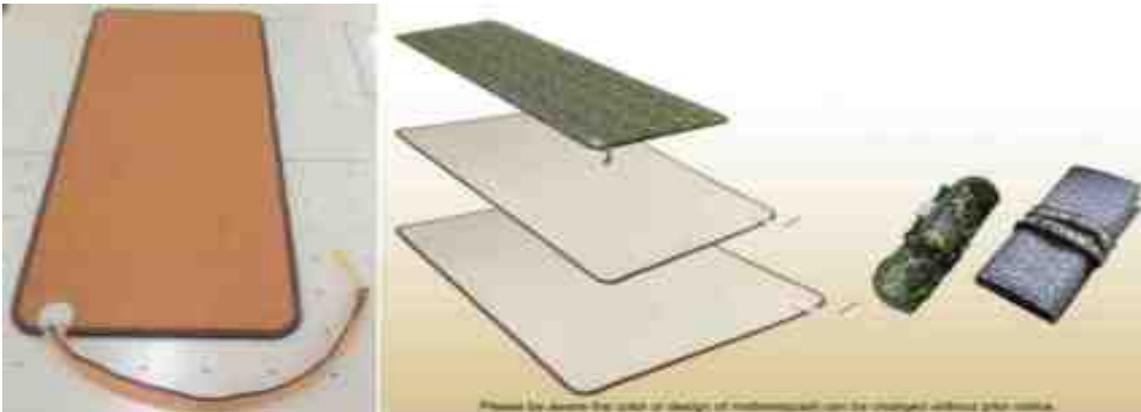
Boiler & Fuel Supply Valve



Temp Controller



DC12V adapter



Single/Double/Military mattress (Color & design can be changed without prior notice)

<Optional product>



12V power bank



Car electric outlet



Extension hose

III. How to use



1. Unfold the pad in a tent or in a sleeping bag.
2. Connect pad and boiler through water supply hose.
Remove the black nuts from the nipples and put them in the hose. Fit the rubber hose to the end of the nipple and tighten the nut.
(A small tube connected upper and lower water coming hole in the boiler is for blocking remaining water inside boiler after use, so please keep it for next time use.)



3. Connect the boiler and fuel tank.
Specification: EN417 screw type with thread valve standard
For other specifications, use a nozzle convert adapter.
4. Connect a 12V battery pack, adapter or car electrical cigarette socket.
Connect temperature controller to remote control input. And then, place the remote control in the tent.



5. Open the water tank lid, fill it with water, and lock the lid. (Minimal/Single pad 900ml, Double/Triple 1,000ml)
6. When the boiler power is switched on, the pump starts to operate and circulates water.
7. Open fuel supply adjusting valve only slightly - two turns counterclockwise. (Gas does not leak by automatic blocking)



8. When you turn on the temperature controller and set your desired temperature, the boiler will automatically ignite and start to operate. The auto ignition repeats several times more even after starting ignition in order to make sure the ignition.
9. Adjust the flame size properly with the fuel supply adjusting valve.
If the flame is too big, it is dangerous. Also it may hinder auto-ignition due to strong gas pressure (like a strong wind effect) after auto-extinguish.
Meanwhile, if the fuel supply is too weak, auto ignition will continue and E0 error code may appear which means fuel supply is too small despite of repeated ignition.



10. When it starts operating, please check the temperature of your mattress for about the first hour to determine the temperature that suits you.

11. If it has a strong wind, you should do something to protect flame in the stove.

12. In cold weather, the fuel may solidify and not ignite, so wrap the fuel tank 1~3 times with the heated water hose to prevent the fuel from solidifying.



14. After use, completely drain the water from the mattress and boiler. Otherwise, it will be frozen and unusable when you use it next time.

Water drainage can be done by following process :

A. Tilt or raise mattress/pad to drain water for over 1 minute.

B. Blow out one of the water tube by hand balloon pump for about 1 minute and repeat it 2~3 times until the remaining water completely drained through the other tube.

C. Tilt the boiler several times to remove the remaining water completely.

D. Blow out the below water tube by hand balloon pump for about 1 minute until the remaining water completely drained.

Under the extreme cold where water is frozen very quickly, this process should be

done in a hurry before water become ice. Once it is frozen, it makes impossible to use it unless you melt it.

If you could not drain water completely in outdoor site, please do it even after coming back home for next time use.

IV. Before you ask for repair

1. When the pad is not warm enough, make sure that the hose connecting the mat with the boiler is not bended.
2. In cold weather, the fuel may solidify and not ignite, so wrap the hot water supply hose two or three times in the fuel tank to prevent the fuel from solidifying.
3. Fuel liquefied leaks are due to ambient temperature and misuse, and can not be repaired. Please understand how to use the right fuel and ignite
4. For any inconveniences or inquiries, please contact our Customer Care Department.
5. If the remote control does not turn on or each function does not work, remove the battery, reinstall it, and turn the power switch off and on several times.
6. Battery packs, adapters or cigar sockets for electrical supply must use 12V specifications.

V. Warranty

We hereby represent and warrant that:

1. This product has been manufactured under our strict quality assurance and inspection as required by the Quality Control Law on Industrial Products.
2. Any defect arising out of normal use of this product shall be subject to our warranty for one year as specified in the Consumer Protection Act. We offer charged repair for breakdown in or damage to the product caused by your negligence.
3. We shall not be liable for any breakdown, damage or accident caused by unauthorized repair or modification.
(Please note that damage to the label at the bottom shall lead to waiver of warranty)
4. Fire caused by gas liquefaction (gas liquefaction leakage) can not be repaired because it is a careless use problem.
5. Failure or damage caused by careless handling of the customer can be repaired at your expense.

6. This warranty certificate shall not be reissued if lost.

Model:	
Name: Hot Water Circulation Boiler	Date of purchase: ____, 201__
Warranty: Free offered for 1 years and charged for 10 years	
Customer address:	
Customer name:	Phone:
Place of purchase:	Phone:

It will be charged even within the warranty period, if:

1. Breakdown or damage takes place as a result of dropping or transportation (customer's negligence)
2. Breakdown or damage takes place due to fire, natural disasters, sea wind, gas or voltage irregularity.
3. Nothing has been put for the date of purchase, customer's name, or the place of purchase or there has been amendment to it.
4. Contamination or damage takes place or replacement of an expendable part is required.
5. Replacement of consumables



Essential Gear For Wild Life

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