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longspeak -A

OUTDOOR HEATING BOILER & WATER CIRCULATION PAD

INSTRUCTION FOR USE

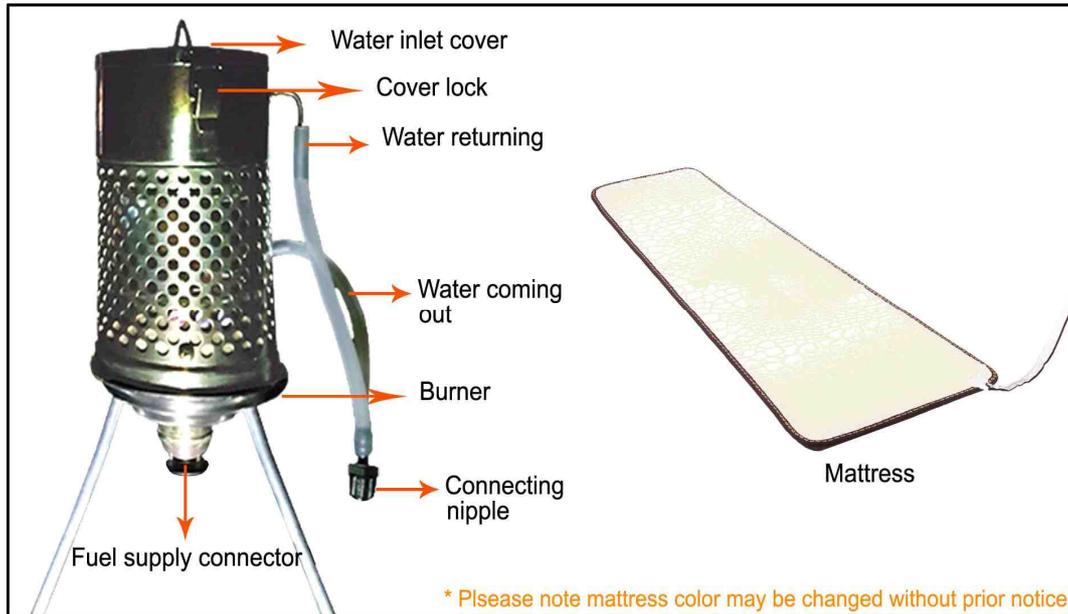
For your safety, please read the instructions carefully.

- **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 (0.21gal~0.24gal /0.8L~0.9L 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 installation stage, flame should be started with the smallest. When boiled water circulates into the pad enough, then you can adjust flame to raise temperature more.
6. Keep the size of the flame properly. Too much flame can be dangerous like other stoves.
7. Do not heat directly to the fire to melt the solidified fuel.
8. Keep away flammable materials from the boiler.
9. Make sure that the connecting water hose is not folded. If the hose is folded, the water cannot circulate and not be heated.
10. Too high temperature in mattress may cause a low temperature burns.
11. After use, completely drain the water from the mattress and boiler. Otherwise, it will be frozen and unusable when you use it next time.
12. Do not touch the boiler during use. Boiler housing (stainless) is very hot while heated and until cool down even after use.

II. Part names and components



Specification

Type	Portable Butane Gas Boiler & Mattress Non-automatic for 1 person	
Dimension	Boiler	4.3 x 5.1 x 10.2in /110 x 130 x 260mm
	Mini pad	1.5ft x 4.4ft /460 x 1350mm
	Single pad	1.5ft x 5.6ft / 460 x 1700mm
Weight	Boiler	2.3lb /1.05Kg
	Mini pad	2.6lb /1.2Kg
	Single pad	3 lb/1.35Kg
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
Input water	0.21~0.23gal /0.8~0.9L	
Fuel	N-butane or iso-butane (EN 417 screw connect required)	
Fuel consumption	About 0.7oz/20g/hour (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 ft2 /2~6m2
Available mattress	Mini / single
Working temp	Fuel working temperature

Connecting Application To Various Fuel

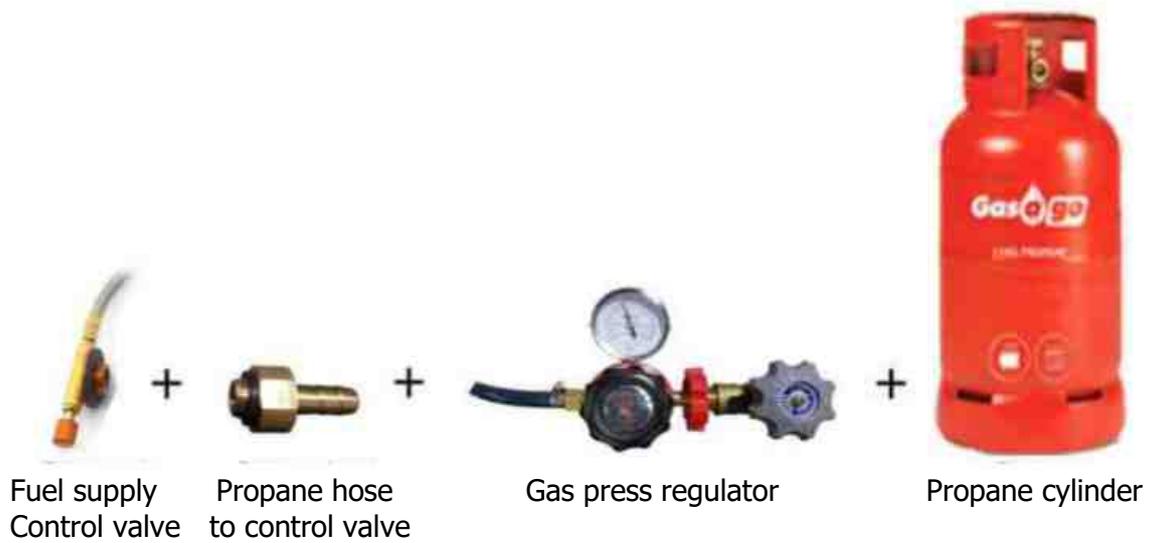
1.Connecting to Iso-butane



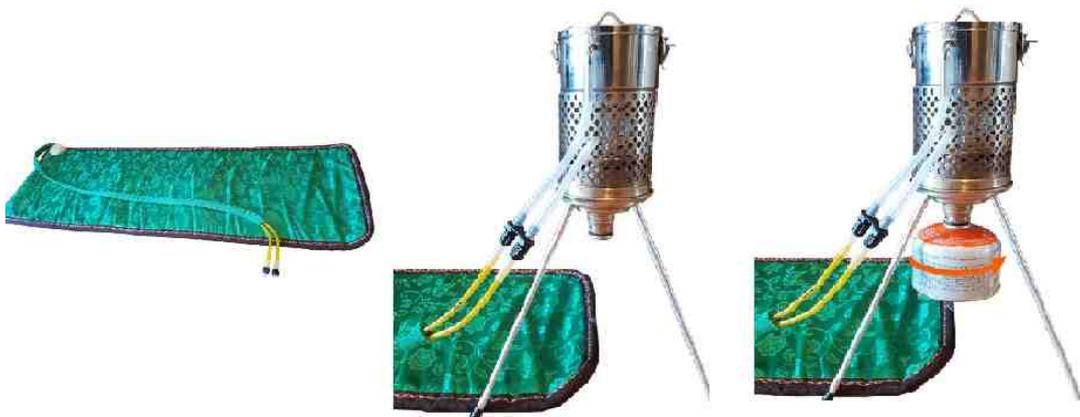
2.Connecting to N-butane



3.Connecting to propane cylinder



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 place them in the hose. Fit the 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. Open the water inlet lid, fill it with water.
Do supply water just under the indicated water level (water returning hole)
5. Ignite and adjust flame to the smallest.
6. Place a heater on the stove and make sure that water slowly flows into the pad.



7. If the water does not circulates even when water boils, disconnect the heater from the stove and cool water down enough or disconnect the water coming out (below) hose from the boiler, discharge whole air and reconnect it. At this time, flame should be reduced to the smallest.
8. As the water escapes into the mattress, pour some water down to the marked area.
Do supply water just under the indicated water level (water returning hole)



9. Adjust the flame size properly with the fuel supply adjusting valve.
If the flame is too big, it is dangerous. Also the mattress temperature is too hot to use.
Generally the smallest flame makes good temperature to use in the pad.
10. Start heating with a moderate flame, and make the smallest when the water circulates well. It takes 20~40 minutes till the mattress is heated enough.



11. When it starts operating, please check the temperature of your mattress for about the first hour to determine the temperature that suits you.
12. If it has a strong wind, you should do something to protect flame in the stove.
13. In cold weather, the fuel may solidify and not ignite, so wrap the fuel tank 1~3 times with the heated (below) water hose to prevent the fuel from solidifying. Butane solidifies at 32F/0C and isobutane (butane + propane mixture gas) below 14F/-10C.



13. 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 folded.
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, accordingly this breakdown can not be repaired. Please be aware of the correct use of gas

appliances.

4. For any inconveniences or inquiries, please contact our Customer Care Department.
5. If height difference between boiler and mattress is too big, water circulation may not be possible. The difference should not be over 0.8M(2.6ft).
6. If water is not circulated, please extinguish gas stove, disconnect mattress from boiler and empty the water. And connect mattress and start from the first.

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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