Nominal rate: 9,000 BTU/h. 2.64 kW h. 203 g/h.











Never let children use this stove. Keep children at least 10 feet (3 m) away from the stove and cooking area, and supervise them at all times.

Keep stove and fuel canister away from other heat sources. Never use non-Reactor cookware, reflectors, or diffusers. If you expose the fuel canister to high heat, it will explode and you can be killed or seriously burned.

This stove is for OUTDOOR USE ONLY. Never use this stove in a tent, vestibule, car, house, or inside any enclosed area. This stove consumes oxygen and produces carbon monoxide gas, which is poisonous and has no odor. This stove can easily ignite nearby combustible materials and flammable liquids or vapors. If you use this stove in an enclosed area you can be killed or seriously burned.

group. Please use good judgment.

There are serious hazards associated with using this stove and fuel. Accidental fire, explosion, and misuse can cause death, serious burns, and property damage. You are responsible for your own safety and the safety of those in your

CARBON MONOXIDE, FIRE & EXPLOSION HAZARD



service may also be obtained by calling 1-800-531-9531[M-F, 8:00-4:30, PDT]. be presented to a Cascade authorized dealer. In the United States and Canada, warranty

OR CORRESPONDENCE TO DESCRIPTION.

property of Cascade and will not be returned.

(ii) subjected Product to misuse, abuse, or neglect.

<u>Warranty Service.</u> To obtain service under this warranty, the warranty-eligible Product must

MERCHANTABILITY, AGAINST LATENT DEFECTS, FITNESS FOR A PARTICULAR PURPOSE,

TO THE PRODUCT, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF

and conditions, whether expressed, implied or statutory, with respect

WARRANTIES, EXPRESSED OR IMPLIED, AND DISCLAIM ALL WARRANTIES, DUTIES

AND THEIR SUPPLIERS, TO THE MAXIMUM EXTENT PERMITTED BY LAW, MAKE NO

EXCLUDING THE LIMITED WARRANTY PROVIDED ABOVE, CASCADE, ITS AFFILIATES

comparable value and function. A returned product deemed irreparable becomes the

Cascade reserves the right to replace any discontinued product with a new product of tive in materials or workmanship will be repaired or replaced as Owner's sole remedy.

During the warranty period, original Product parts determined by Cascade to be defec-

more be voided where Owner/user (i) failed to follow Product instructions or warnings or

Product's intended purpose or design, or (iii) improperly maintained. Warranty will further-

ship will apply if Product is (i) altered in any way, (ii) used for purposes inconsistent with

for the life of the Product. No warranty against defects in materials and workman-

product ("Product") to be free from defects in materials and workmanship

("Owner"), under intended use and maintenance, warrants the enclosed

<u>Limited Warranty.</u> Cascade Designs, Inc. ("Cascade"), to the original owner

USA and Canada

YTIJI8AIJ LIMITED WARRAUTY/LIMITATIOUS OF REMEDIES AND

details, please go to www.msrgear.com. reasonable charge that includes return shipping and handling. For warranty return service product ineligible for warranty service, Cascade will, if possible, repair product for a repaired or replaced Product to Owner. In instances where Cascade deems a returned or replacement, Cascade will pay the shipping and handling associated with returning service. Where at its sole discretion Cascade deems Product eligible for warranty repair Owner is responsible for all costs associated with returning Product to Cascade for

PURCHASER AGAINST CASCADE, ITS AFFILIATES AND THEIR SUPPLIERS, REGARDLESS chase price. THE FOREGOING REMEDY IS THE SOLE AND EXCLUSIVE REMEDY OF THE Cascade will, in exchange for return of Product, refund to Owner Product's original purrepair or replace Product. Should the aforementioned remedy fail of its essential purpose, ranty set forth above breached, Cascade's only obligation will be to, at its option, either Limitation of Remedies. Should a court of competent jurisdiction find the limited war-

IF ANY REMEDY FAILS OF ITS ESSENTIAL PURPOSE. LEGEL THEORIES UNDER WHICH DAMAGES MAY BE SOUGHT, AND WILL APPLY EVEN ANY REASON WHATSOEVER. THIS EXCLUSION AND LIMITATION APPLIES TO ALL MORA ENTITIES RESULTING REAL OR OTHER DAMAGES RESULTING FROM CASCADE, ITS AFFILIATES AND THEIR SUPPLIERS HEREBY DISCLAIM AND EXCLUDE limited to incidental damages not to exceed the original purchase price of the Product. Limitation of Liability. Cascade's, its affiliates' and their suppliers' maximum liability is

which may vary state to state. This limited warranty gives Owner specific legal rights; Owner may have additional rights,

any other Cascade product. Always completely follow safety, use, operation, and maintenance instructions for this or

European Union customer statutory rights are not affected.



Cascade Designs, Inc.

4000 First Avenue South, Seattle, WA 98134 USA

1-800-531-9531 or 206-505-9500

www.msrgear.com

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Due to the compact nature of the Reactor stove system and its resulting height, the Reactor stove system may tip more easily than stove systems of less height. To mitigate tipping: (1) use stove only with Reactor cookware; (2) never leave the stove unattended; (3) keep children and pets far away from stove; (4) always use stove on a solid, stable, even surface; and (5) never use stove in a manner inconsistent with these instructions or contrary to its intended use. Tipping of Reactor stove system can result in an unsafe situation where fire, burns, severe injury or death can occur.

Do not use stove if parts are missing or broken, or with replacement parts not specific to your stove model. Use of stove with missing or broken parts, or with replacement parts not specific to your stove model, can result in an unsafe situation where fire, burns, severe injury or death can occur.

Do not disassemble stove beyond what is described in these instructions. Do not modify stove. Disassembly or modification of stove in any manner not consistent with these instructions voids warranty and can result in an unsafe situation where fire, burns, severe injury or death can occur

food can cause fire, burns, severe injury or death.

This stove is designed for the outside (i.e., not within enclosed spaces of any kind; e.g. tents) boiling of water or cooking of food only-never use it for any other purpose. Use of stove within any enclosed space, or for a purpose other than boiling water or cooking

leading to fire, burns, severe injury or death.

the stove system or in the surrounding environment that would make operation of an open

flamed device dangerous. Failure to follow these directions can cause an unsafe situation

WARNING Do not attempt to use this stove: (1) before reading and fully understanding this Instruction Manual; (2) if you are not prepared or comfortable attending to a burning and/or hot stove at all times; (3) if you observe leaking fuel; or (4) if you observe any condition with

FOR YOUR SAFETY

It you smell gas

- J. Do not attempt to light stove.
- Extinguish any open flame.
- Disconnect from fuel canister.

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vicinity of this or any other stove. liquids with flammable vapors in the Do not store or use gasoline or other

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REACTOR[®]STOVE



INSTRUCTION MANUAL

W DANGER



CARBON MONOXIDE HAZARD

- oxide, which has no odor. This stove can produce carbon mon-
- **.**vov. Using it in an enclosed space can kill
- pule, car, or home. sbace sncy as a cambel, tent, vesti-Never use this stove in an enclosed

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.1529 manual or have any questions, please call Cascade Designs at 1-800-531this stove. Keep this manual for future reference. If you do not understand this Read and understand this entire manual carefully before assembling or using

GENERAL SAFETY INFORMATION

To avoid being killed or seriously injured, READ, UNDERSTAND, AND FOLLOW ALL warnings and instructions in this manual before you use this stove.

This stove is a lightweight, compact device made for cooking outdoors. Please consult with your local outdoor retailer to learn more about cooking outdoors. Seek qualified instruction before you venture outdoors.

You are responsible for your own safety and the safety of those in your group. This manual is not intended to replace your good judgment.

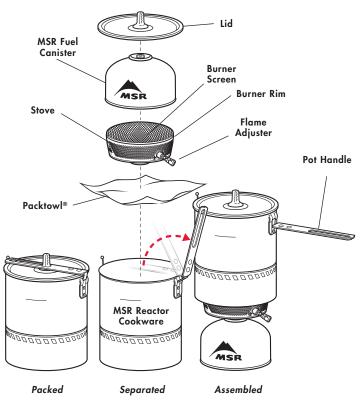
Fuel Canister Safety

This stove uses a liquid pressurized gas (LPG) canister that is highly flammable and explosive. Use only MSR® premium blend canister fuel, 70 Butane/30 Propane or 80 IsoButane/20 Propane mix, certified to EN 417 (4 ounces/113 g or 8 ounces/227 g). Do not attempt to fit other types of gas canisters. For any fuel canister, follow this safety information:

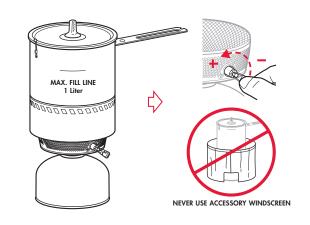
- Listen and smell for leaking gas. Leaking gas is a serious hazard. LPG is invisible and odorless, and strong odorant additives can fade over time. Leaks are not always detectable by smell. Do not use this stove if it is leaking, damaged, or does not operate properly.
- Check that the stove and fuel canister connection is secure and tight. If the connection does not look or feel secure, or if you hear or smell leaking gas, do not use stove or canister. Move stove to a well-ventilated area away from any ignition source to locate and stop the leak. Only check for leaks outdoors using soapy water. Do not try to detect leaks using a flame.
- Only change the canister outside and away from people
- Never use fuel canisters larger than 8 ounces (227 g) or more than 4 inches (10 cm) in height, because oversized canisters increase stove instability.
- Check the seals before connecting a new fuel canister to the stove. Do not use stove if seals are damaged or worn.
- Keep stove and fuel canister away from other heat sources. If you expose the fuel canister to high heat, the canister will explode or leak and you can be killed or seriously burned.
- Follow all warnings on fuel canister regarding use and storage.

KNOW YOUR MSR® REACTOR® STOVE

Please familiarize yourself with the parts of your Reactor stove and the following instructions before connecting the stove to its fuel canister. Never use this stove in any other way than is described in the following instructions.



Add food or liquid to cookware. Never exceed Max. Fill Line.
Place cookware onto stove by aligning it with Burner Rim.
Turn Flame Adjuster to adjust heat.



A DANGER

Never move a burning or hot stove. Always extinguish stove and cool for at least 5 minutes before moving. Moving a burning or hot stove can cause fire, burns, severe injury or death. Never place and operate two or more stoves together. Never operate stove with empty or dry cookware. Never use non-Reactor cookware, reflectors, or diffusers. Use of stove in any of the proceeding manners can result in the fuel bottle exploding and causing fire, burns, severe injury or death.

REACTOR® STOVE OPERATING INSTRUCTIONS

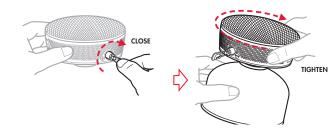


Reactor stove and Reactor cookware work together as an integrated unit with the fuel canister and require no other cooking accessories. This unique stove system vastly reduces cooking time and improves fuel efficiency.

1. Close Flame Adjuster.

Furn Flame Adjuster clockwise.

2. Finger-tighten stove onto fuel canister until connection is secure.



Never over tighten fuel canister to stove. Over tightening can damage stove or canister causing fuel to leak. Leaking fuel can cause fire, burns, severe injury or death. Use extreme caution when using stove in temperatures below freezing. In freezing temperatures O-rings can stiffen and leak fuel. Always check for fuel leaks before and after lighting stove. Use of a leaking stove can cause fire, burns, severe injury or death. Keep children far away from stove and fuel—Cascade Designs, Inc. recommends no less than 10 feet (3+ meters). Never leave a burning or hot stove unattended. An unattended stove can lead to fire and/or a situation where children, pets, or the unwary can be burned, injured, or killed.

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TURN STOVE ON

- Hold a lit match/lighter next to the edge of the Burner Screen, directly above the MSR logo.
- 2. Open Flame Adjuster 3 turns.
- 3. Wait for burner to become RED HOT (takes 5 to 30 seconds). While the stove is warming up a subtle blue flame may be seen before the burner begins glowing. Wind and temperature may affect warmup time by 10 to 15 seconds.
- If fuel does not ignite, or if the burner does not become RED HOT after 30 seconds, close Flame Adjuster, wait 15 seconds, repeat steps 1-3.



Carefully follow all instructions when attempting to light stove. This stove contains a device designed to protect the user against misuse. If stove is misused the device will be activated and render the stove permanently inoperable.

Never attempt to light stove near the Flame Adjuster or with cookware in place. Attempting to light stove other than specified may cause stove to overheat, creating a situation where fire, burns, severe injury or death can result. Stove contains a device that will render it permanently inoperable if detrimental overheating occurs. Stove is not field-maintainable. If stove becomes inoperable, immediately discontinue use and return stove to an authorized MSR dealer. Attempting to circumvent and/or reset inoperable stove is an unsafe practice that can cause fire, burns, severe injury or death.

Never place your head or body above the stove while lighting or cooking. Placement of head or body above stove is an unsafe practice that can cause fire, burns, severe injury or death.

TURN STOVE OFF		
After burner stops Move stove assem from canister. A small amount of Wrap dry Packtow Place canister on t Place lid on coo OTE: Ensure stove Corrosion ca	skware and flip handle. assembly and Packtowl is dry before long term storage. n occur when stored wet. WAIT WAIT Solution of the stored	
anister before storing leath. Always store fu- eat or ignition source emperatures exceed 1 ource or where tempe	The from canister before storing. Failure to disconnect stove from may cause fuel to leak and cause fire, burns, severe injury or el canisters in a well-ventilated location away from any possible such as: water heaters, stoves, pilot lights, or furnaces, or where 20 F (49 C). Storing fuel canisters near any heat or ignition ratures exceed 120 F (49 C), can result in the canister exploding , severe injury or death.	

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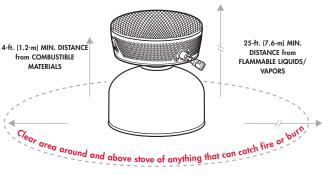
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SET UP STOVE

1. Clear cooking area of combustible materials and flammable liquids or vapors.

 Place stove assembly on a solid, stable, even surface to ensure stability. Use MSR canister stand when using canisters with a diameter less than 4 inches (10.2 cm).



Keep combustibles at least 4 feet (1.2 meters) away from the top and sides of a burning stove, or a stove that you are in the process of lighting. Keep flammable liquids and vapors at least 25 feet (7.6 meters) away from the top and sides of a burning stove, or a stove that you are in the process of lighting. This stove can ignite combustible materials, flammable liquids and vapors creating a situation where fire, burns, severe injury or death can result.

Never attempt to light stove if flame adjuster valve is left open. If flame adjuster valve is left open, close it immediately and thoroughly ventilate area before lighting stove. Failure to ventilate area can result in an explosion that can cause fire, burns, severe injury or death.

TROUBLESHOOTING

oblem	Cause	Solution
minished flames	Low fuel	Replace canister
ove does not light	Cold canister	Swap canisters
	Empty canister	Replace canister
o gas flow	Internal damage	Do not use stove Contact Cascade Designs.

Stove service must only be done by an individual authorized by Cascade Designs, Inc. If you have any questions about these instructions, your stove, replacement parts, or repairs, please contact:

Cascade Designs, Inc., USA - **1-800-531-9531 or 206-505-9500** Cascade Designs, Ltd., Ireland - **(+353) 21-4621400**

www.msrgear.com

info@cascadedesigns.com