**FOR OUTDOOR USE ONLY**

<table>
<thead>
<tr>
<th>Nominal Heat Input Rate: 9,000 BTU/h.</th>
<th>Nominal Heat Input Rate: 2.64 kW</th>
</tr>
</thead>
</table>

AGA 7302

**Nominal Heat Input Rate:** 203 g/h.

**Stove Orifice Size:** 0.27 mm (2)

**Warning:** Nominal Heat Input Rate varies depending on test procedures of the particular standards agency.

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**NOTE:** Nominal Heat Input Rate varies depending on test procedures of the particular standards agency.

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**FOR YOUR SAFETY**

**DANGER**

**CARBON MONOXIDE, FIRE & EXPLOSION HAZARD**

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 group. Please use good judgment.

This stove is for OUTDOOR USE ONLY. Never use this stove in a tent, washbowl, car, house, or inside any enclosed area. This stove contains butane 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.

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

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.

READ, UNDERSTAND, AND FOLLOW ALL instructions and warnings in this manual before using this stove. Failure to follow warnings and instructions can result in death, serious burns or other injury, and property damage.

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**INSTRUCTION MANUAL**

**Reactor Stove**

For product service and information contact Cascade Designs, Inc. 4000 First Avenue South, Seattle, WA 98134 USA 1-800-531-9531 or 206-505-9500 www.msr.com

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**WARNING**

Do not attempt to use this stove [1] unless you are fully understanding the instructions. [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, [4] if you observe any condition with the stove system or in the surrounding environment that would make operation of an open burner device dangerous. Failure to follow these directions can cause an unsafe situation leading to fire, burns, severe injury or death.

This stove is designed for the outside (i.e., not within enclosed spaces of any kind, e.g., tent) burning or cooking of food only—not for any other purpose. Use of this stove within any enclosed space for a purpose other than boiling water or cooking food can easily ignite nearby combustible materials and flammable liquids or vapors. Do not disassemble stove beyond what is described in these instructions. Do not modify stove. Disassembly 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.

Do not use stove if parts are missing or broken, or if replacement parts not specific to your stove model are used. If you do not understand this manual or have any questions, please call Cascade Designs at 1-800-531-9531.
 KNOW YOUR MSR® REACTOR® STOVE

KNOW YOUR MSR® REACTOR® STOVE

REACTOR® STOVE OPERATING INSTRUCTIONS

1. CONNECT STOVE AND CANISTER

1. Clear cooking area of combustible materials and flammable liquids or vapors.
2. 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).

2. Set up stove

2.1. Place canister in pot with stove.
2.2. Place lid on cookware and flip handle.

3. USE STOVE TO COOK

3.1. 1. Hold a lit match/fighter 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.

4. TURN STOVE OFF

4.1. When cooking is done, close Flame Adjuster.
4.2. After burner stops glowing, wait 5 minutes for stove to cool.
4.3. Move stove assembly away from any ignition sources and remove stove from canister. A small amount of gas may escape when removing stove.
4.4. If dry, Place packtowl around and place in bottom of cookware. Place canister in pot with stove. Place lid on cookware and flip handle.

NOTE: Ensure stove assembly and Packtowl is dry before long term storage. Corrosion can occur when stored wet.

TROUBLESHOOTING

Problem: Cause: Solution:

1. Diminished flames: Low fuel
Replace canister
2. Stove does not light: Cold canister
Warm canister
3. Empty canister*: Replace canister

* To check if canister is empty, remove stove and gently shake canister. If no splashing sound is heard, canister still contains fuel.

Stove 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

www.msegear.com

info@cascadeTdesigns.com

1. MSR Fuel Canister
2. Lid
3. Burner Screen
4. Burner Rim
5. Flame Adjuster
6. Pot Handle

NOTE: Use accessory windscreen when using stove in windy or cold conditions.

5. TURN STOVE OFF

5.1. 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 fires, burns, severe injury or death. Never place second or more stoves together. Never spend time near a stove that is being used. Use of any of the preceding stances can result in the fuel boiling and causing fire, burns, severe injury or death.

NOTE: 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 fires, burns, severe injury or death. Never place second or more stoves together. Never spend time near a stove that is being used. Use of any of the preceding stances can result in the fuel boiling and causing fire, burns, severe injury or death.

WARNING:
- Read, understand, and follow all warnings and instructions in this manual before you use this stove.
- This stove is a liquid pressurized gas (LP) stove 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 these safety information:
- Listen and smell for leaks. Leaking gas is a serious hazard. LP is invisible and colorless, and strong sublimation additives can fake over time. Leaks are not always detectable by smell. Do not use the stove if it is damaged, 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 the 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 and any source of ignition.
- Never use fuel canister 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 empty or dry fuel canisters.
- 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.

WARNING:
- Always disconnect stove from canister before storing. Failure to disconnect stove from canister before storing may cause fuel to leak and cause fires, burns, severe injury or death. Always store fuel canisters in a well-ventilated location away from any possible explosion or ignition source or where temperatures exceed 120°F (49°C), can result in the canister exploding and causing fire, burns, severe injury or death.

WARNING:
- MSR canister stand when using canisters with a diameter less than 4 inches (10.2 cm).
- Use accessory windscreen when using stove in windy or cold conditions.
- Keep combustibles at least 1.5 to 2.5 meters away from the top and sides of a burning stove, or in a situation where children, pets, or the unwary can be killed or seriously burned.

WARNING:
- Never allow the stove to ignite combustible materials or where temperatures exceed 120°F (49°C), can result in an explosion that can cause fire, burns, severe injury or death.

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