

# REI PRODUCT INFORMATION

# STOVES

## QUICK TIPS

Generally, canister-fuel stoves are simplest to use. Liquid-fuel stoves are more economical and perform better in the cold.

Most canister-fuel stoves use a Lindal valve, so they can interchangeably use most fuel canisters sold at REI.

The following topics refer to specs on our chart (see reverse).

### FUEL

We compare the pros and cons of common fuel choices below. Multifuel stoves are best for international travel.

### FUEL CAPACITY

You can alter the capacity (and burn time) of many liquid-fuel stoves by connecting to a different-size fuel bottle.

### BURN TIME

Tells how long you can cook before refueling. Along with average boil time and liters of water boiled, burn time provides an overall picture of a stove's performance.

### AVERAGE BOIL TIME

Shows the time required in REI lab tests to bring 1 liter of 70°F water to a boil.

### LITERS OF WATER BOILED PER 100g OF FUEL

The "miles per gallon" for a backpacking stove, it tells how efficiently a stove cooks. Also, when stoves are used at less than full power, they are more efficient.

### COMPARING CANISTER FUELS

Canisters use blended, compressed gases such as butane/propane or isobutane. Butane works poorly below 32°F, but when mixed with propane it performs better in the cold. Isobutane, a specialized butane, works to about 25°F. Pure propane (in bulky canisters, used for camp stoves) burns to about 0°F.

### PIEZO-IGNITER

A push-button spark-producer (generated by a crystal) found on some canister-fuel stoves. Nice to have if your matches are lost or wet.

### DISTANCE BETWEEN BURNERS (CENTER-TO-CENTER)

To cook scrambled eggs and hash browns side-by-side in matching 10" skillets, choose a stove with at least 10" between burners.

### STOVE OPERATION AND SAFETY TIPS

- Don't cook inside tents or enclosed spaces.
- Check all fuel lines, valves and connections for leaks before lighting your stove.
- If you have a stove that runs on auto fuel, don't use oxygenated gas (found in some areas of the US, especially during winter). It breaks down vital stove components.

- Always make certain your stove is firmly situated on a stable surface.
- Don't fill a stove's fuel tank to the brim. Fuel expands as it warms, so leaving an air space prevents excessive pressure buildup.
- Empty the fuel tank before storing your stove for several months or more.
- In extreme cold, don't spill fuel on bare skin—this can cause frostbite.
- If you do a lot of cold-weather backpacking or camping, make sure your stove's knobs are large and easy to turn with gloves on.
- When cooking on snow or soft surfaces, use a stove base (sold separately in most cases) under the stove.

Recommendation: Operate stove on the most level surface possible. Fuel canisters usually contain a small amount of air near the top when the canister is new. If stove tips, a large yellow flare-up flame may occur.

### STOVE AND FUEL ACCESSORIES

REI carries stove bases, maintenance kits, pumps, replacement parts, many fuels, fuel containers, funnels and pouring spouts.

**WARNING: Do not use a wrap-around windscreen with a canister stove. The screen could cause the canister to overheat and explode, resulting in serious injury and burns.**

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### COMPARING FUELS

Advantages:	White Gas	Kerosene	Butane/Propane/Isobutane	Unleaded Auto Gas*	Alternative Fuels
	Spilled fuel evaporates quickly; fuel used to prime stove; available in US; best cold-weather fuel.	Spilled fuel won't ignite readily; fuel sold throughout the world; high heat output.	Easiest to use. Instant maximum heat output—no priming needed. Burns clean, adjusts easily for simmering. No-spill fuel container.	The most readily available fuel in the US	Zip Stove: burns wood, so there's no fuel to pack along; Esbit Stove: fuel cubes pack easily, won't spill; no smoke or ash created. Trangia Mini Trangia 23-T: burns alcohol.
Disadvantages:	Priming sometimes required; spilled fuel very flammable.	Priming required; spilled fuel does not evaporate readily; noticeable odor.	Higher fuel cost; canisters are not yet recyclable; fuel should be kept above freezing for most efficient operation <sup>†</sup> ; heat output decreases as canister gets used.	Same disadvantages as white gas; also, certain gas additives can eventually lead to clogging and corrosion of stove parts.	Performance lags behind traditional fuels. Zip stove; not usable in no-fire areas, and fuel (sticks, etc.) must be gathered.

\*Caution: Do not use automotive fuel unless specified. In addition, do not use oxygenated gasoline (found in some places in the US during winter months).

<sup>†</sup>Bulk cylinders enable propane stoves to burn more efficiently at low temperatures.

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BACKPACKING—LIQUID FUEL			Weight (w/o fuel)	Burn Time (min.) (pint) W. Gas / Kero.	Average Boil Time (1 Liter) W. Gas / Kero.	Liters of Water Boiled W. Gas / Kero.	Dimensions (in.)	Pot Stability	Stove Stability	Price*
Coleman Exponent Feather 442 Dual Fuel	671668	White gas/unleaded	1 lb. 8 oz.	57 / NA	3:41 / NA	7 / NA	6.25 x 5.25 x 5.25	Good	Good	\$58
Coleman Exponent Firestorm Titanium	741669	White gas/unleaded/butane/propane	24.4 oz.	UA / NA	UA / NA	UA / NA	5.25 x 3.9	UA	UA	\$175
MSR WhisperLite Shaker Jet	708959	White gas	13.12 oz.	94 / NA	3:58 / NA	7.3 / NA	6 x 4 x 4	Good	Good	\$69.95
MSR WhisperLite Internationale	709000	White gas/kerosene/jet/auto	14 oz.	84 / 108	3:51 / 4:42	7 / 6.3	6 x 4 x 4	Good	Good	\$79.95
MSR SimmerLite	709078	White gas	8.5 oz.	77 / NA	3:33 / NA	6.6 / NA	9 x 6.7 x 5.8	Fair	Fair	\$99.95
MSR DragonFly	709002	White gas/kerosene/diesel/auto gas	15.66 oz.	121 / 151	3:52 / 4:03	6.9 / 7.5	6.25 x 5 x 3.5	Excellent	Excellent	\$119.95
MSR XGK EX	722001	White gas/kerosene/jet/auto	14.3 oz.	107 / 116	3:47 / 2:55	6.25 / 8	10 x 3.5 x 3.25	Excellent	Good	\$140
Optimus Nova Multifuel	668818	White gas/kerosene/jet/auto/diesel #1	15.1 oz.	92 / 60	4:13 / 4:19	6.57 / 3.6	5.5 x 2.6 x 2.6	Excellent	Excellent	\$144
Primus Gravity VariFuel	737217	White gas/kerosene	20 oz.	UA / UA	UA / UA	UA / UA	5.5 x 1.75	Excellent	Excellent	\$79
Primus Gravity Multifuel	738835	White gas/kerosene	13 oz.	UA / UA	4:15 / UA	5.3 / UA	4 x 1.5	Excellent	Excellent	\$110

BACKPACKING—CANISTER FUEL			Weight (w/o fuel)	Burn Time (max flame) Minute	Average Boil Time (1 Liter)	Liters of Water Boiled per 100g fuel	Dimensions (in.)	Ease of Operation	Pot Stability	Stove Stability	Price*
Coleman Exponent F1 Ultralight	696975	Butane/propane	2.6 oz.	62 (225g fuel)	3:43	7.5	3.3 x 3.1 x 1.6	Excellent	Fair	Good	\$44
Coleman Expedition Xpert!	671669	Powemax cartridge	13.5 oz.	70 (300g fuel)	3:30	UA	10.5 x 4.5 x 4.5	Excellent	Excellent	Excellent	\$49.95
Coleman Exponent FI Powerboost	696974	Butane/propane	5.2 oz.	44 (225g fuel)	3:11	6.1	4.4 x 3 x 2.8	Excellent	Excellent	Good	\$55
Coleman Exponent Xtreme	671670	Butane/propane	12 oz.	60 (300g fuel)	3:04	5.9	7 x 4 x 4	Excellent	Excellent	Excellent	\$59.95
Coleman Exponent Xpedition	671671	Butane/propane	26.6 oz.	68 (300g fuel)	3:42	6.2	16 x 4.75 x 4	Excellent	Good	Excellent	\$88
Gas Turbo 270!	605718	Butane/propane cartridge	9.7 oz.	63 (230g fuel)	3:52	7.1	5.75 x 4.75 x 2.75 **	Good	Good	Excellent	\$25.95
Jetboil Personal Cooking System	708890	Isobutane/propane	15 oz. <sup>1</sup>	95 (225g fuel)	0.5 liter of water 2:42	11	7.1 x 4.1**	Excellent	Excellent	Good	\$79.95
Jetboil Group Cooking System	734583	Isobutane/propane	1 lb. 6 oz. <sup>1</sup>	90 (225g fuel)	UA	12	7 x 4.5	Excellent	Excellent	Good	\$109
MSR Pocket Rocket	660153	Isobutane	3.2 oz.	59 (227g fuel)	3:58	6.65	4.1 x 2.1 x 2	Excellent	Fair	Excellent	\$39.95
MSR SuperFly	665544	Isobutane	4.5 oz.	52 (170g fuel)	4:22	7.1	4.1 x 4 x 2.7	Excellent	Fair	Fair	\$49.95
MSR SuperFly with Piezo	653565	Isobutane	5 oz.	56 (227g fuel)	3:43	6.7	4.1 x 4 x 2.7	Excellent	Fair	Fair	\$59.95
MSR WindPro	695263	Isobutane	6.8 oz.	70 (227g fuel)	4:42	6.56	4.5 x 3.4 x 2.8	Excellent	Excellent	Fair	\$80
Primus Yellowstone Classic Trail	636832	Propane/butane/isobutane	9.3 oz.	50 (220g fuel)	3:28	6.8	5 x 5 x 2.25	Excellent	Excellent	Excellent	\$25.95
Primus TechnoTrail II with Piezo	737214	Propane/butane/isobutane	6.8 oz.	UA	UA	UA	2.5 x 2.4 x 2.2	UA	UA	UA	\$45
Primus Micon	737216	Propane/butane/isobutane	3.3 oz.	66 (225g fuel)	3:40	8	2.6 x 1.7	Excellent	Fair	Good	\$53
Snow Peak Giga Power—Manual	560004	Propane/butane/isobutane	3.54 oz.	56 (225g fuel)	3:40	7	3.6 x 2 x 1.8	Excellent	Fair	Excellent	\$39.95
Snow Peak Giga Power with Piezo	643058	Propane/butane/isobutane	3.54 oz.	56 (220g fuel)	3:40	7	3.6 x 2 x 1.8	Excellent	Fair	Excellent	\$49.95
Snow Peak Starter Kit	737347	Propane/butane/isobutane	3.54 oz.	56 (225g fuel)	3:40	7	3.6 x 2 x 1.8	Excellent	Fair	Excellent	\$69.95
Snow Peak Titanium Giga Power	664428	Propane/butane/isobutane	3 oz.	74 (215g fuel)	4:29	7.7	3.3 x 1.6 x 1.5	Excellent	Good	Good	\$74.95
Snow Peak Giga Power Blended Fuel	696978	Propane/butane/isobutane	11.25 oz.	77 (220g fuel)	4:44	7.3	4.25 x 4 x 4 (unfolded); 3.5 x 2.5 x 4 (folded)	Excellent	Excellent	Excellent	\$79.95

BACKPACKING—ALTERNATIVE FUEL			Weight (w/o fuel)	Burn Time (max flame)	Average Boil Time	Dimensions (in.)	Ease of Operation	Pot Stability	Stove Stability	Price*
Esbit Pocket	653343	Esbit fuel tablets	3.25 oz.	15 (per cube)	14:00	4 x 3 x 0.75	Excellent	Fair	Fair	\$9.95
Sierra Zip	629262	Any solid burnable	18 oz.	54	10:03	5.25 x 5.25 x 4.5	Fair	Good	Good	\$55.95
Trangia Mini Trangia 28-T	657906	Alcohol	5.75 oz.	26:47 (per 75 grams)	12:00	3.8 x 3.8 x 2.4	Good	Good	Fair	\$29.95

CAMP STOVES			Weight (w/o fuel)	Heat output (BTUs)	Ease of Operation	Pot Stability	Distance Between Burners (in.)	Price*
Brinkmann Propane Oven	721997	Propane	15 lbs. 2 oz.	400 degrees Fahrenheit	Excellent	NA	NA	\$69.95
Camp Chef Single Outdoor Cooker	693533	Propane	14 lbs. 11 oz.	75,000	Excellent	Excellent	NA	\$59.95
Camp Chef All Terrain	743409	Propane	20 lbs.	20,000	UA	Excellent	11.75	\$119
Century Trail Scout	405022	Propane	1 lb. 8 oz.	8,000	Excellent	Fair	NA	\$21.95
Century Matchless Single-Burner	674577	Propane	1 lb. 12 oz.	10,000	Excellent	Fair	NA	\$25.95
Century Matchless 2-Burner	737002	Propane	12 lbs. 12 oz.	12,000 <sup>11</sup>	Excellent	Excellent	11	\$50
Century Matchless Grill and Stove	710671	Propane	12 lbs. 5 oz.	10,000	Excellent	Excellent	3.25	\$66.95
Century Deluxe Stainless Steel 2-Burner	737001	Propane	12.75 lbs.	12,000 <sup>11</sup>	Excellent	Excellent	11	\$70
Coleman 2-Burner Propane	723260	Propane	10 lbs. 13 oz.	11,000 <sup>11</sup>	Excellent	Excellent	9.5	\$46
Coleman 2-Burner Instastart Deluxe Propane	723279	Propane	12 lbs. 4 oz.	11,000	Excellent	Excellent	9.5	\$58
Coleman InstaStart Table Top Grill	723285	Propane	18 lbs. 10 oz.	11,000	Excellent	NA	NA	\$59.95
Coleman Propane Slow Cooker	736981	Propane	11 lbs.	4,000	Excellent	NA	NA	\$60
Coleman Fold-n-Go 2-Burner	738435	Propane	7 lbs. 12 oz.	10,000 <sup>11</sup>	UA	UA	13	\$70
Coleman 424 Dual-Fuel 2-Burner	406020	White/unleaded gas	9 lbs. 13 oz.	21,000	Good	Excellent	9.5	\$72
Coleman Propane Grill	723281	Propane	14 lbs. 8 oz.	10,000	Excellent	Excellent	NA	\$77
Coleman 3-Burner Propane	744227	Propane	UA	UA	UA	UA	UA	\$93
Coleman RoadTrip LXE Grill	723286	Propane	43 lbs.	20,000	Excellent	Excellent	NA	\$169.95

**FOOTNOTES:**

\*Prices subject to change and are for comparison only. †Use only manufacturers' brand fuel. ‡Weight excludes cup. \*\*Dimensions for stove only. ††Output per burner. NA = not applicable, UA = spec unavailable. Specs based on REI lab tests and manufacturers' information at time of publication.

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