

A propane-fueled,
catalytic mirror heater
system that prevents
snow and ice from
accumulating on the
Triton mirror



DESCRIPTION

Triton's mirror heater system uses circulating fluid to keep the aluminum sound mirror warm, preventing the accumulation of snow and ice. Snow on the mirror blocks the transmitted and received sound beams and is detrimental to data quality. A propane-fueled catalytic heater heats the circulating antifreeze which is pumped through tubes behind the mirror, in a radiator-style design. The catalytic reaction produces no open flame.

SPECIFICATIONS

Plumbing	Aluminum, EPDM, nylon
Antifreeze	Environmentally safe propylene glycol rated to -73°C (-100°F). -73°C (-100°F) burst protection and -50°C (-58°F) freeze protection. 6 L (1.5 gal.) volume required.
Fuel	LPG (propane)
Fuel consumption	5.4 fl. oz. (160 ml) / hour
Fuel capacity	Triton enclosure has room for one 30-lb. and one 40-lb. cylinder. Available propane cylinders vary by geographic location. Contact Second Wind Support for information on connecting the propane cylinders that are available in your region.
Run time	Up to 200 hours of mirror heater system operation with 70 lbs. of fuel
Heater control	Intelligent system with remote control capability
Average power consumption	Average power consumption during the snowy season is 10 Watts (7 Watts at other times).
Batteries	Runs on standard Triton batteries
Preheat cycle	5 minutes
Temperature	Heats mirror to approximately 20°C at ambient temperature of 0°C



CUTAWAY VIEW OF TRITON WITH MIRROR HEATER SYSTEM. PROPANE CYLINDERS ARE SUPPLIED BY CUSTOMER, AND ARE SHOWN AS TRANSPARENT.



DETAIL SHOWING HEATER AND PUMP ASSEMBLY

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