

Vaisala Triton®

/ Mirror Heater System Specifications

SECONDWIND
by Vaisala

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

The Vaisala Triton 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 us 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

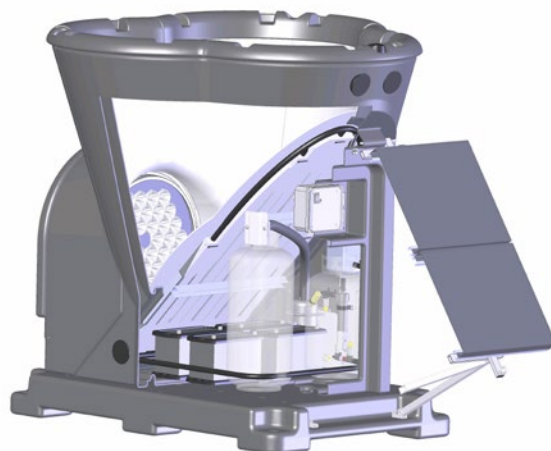
Runs on standard Triton batteries

PREHEAT CYCLE

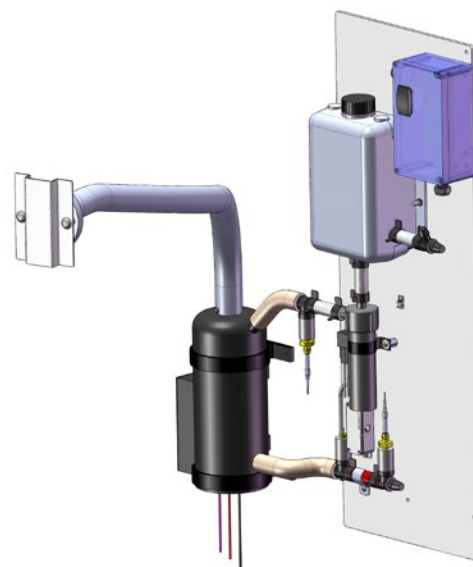
5 minutes

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

VAISALA

www.vaisala.com

Please contact us at
www.vaisala.com/secondwind



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