

Winterization Kits

The Winterization Kit for the AQS 1 and Dust Sentry extends the instrument's operating range allowing users to continue measuring in cold temperatures (-40°C with jacket and heater module, or -20°C with jacket alone) while maintaining the data quality and reliability of Aeroqual AQS 1 and Dust Sentry instruments.

The Winterization Kits come with extended mounting brackets to make it easier to fit the insulation jacket to a deployed instrument.

The jacket has a front cover which can be unfastened to allow access to the instrument door.



Kit components:

Silicone Insulation Jacket

- The custom silicone-impregnated fiberglass jacket provides excellent insulation and is hardwearing for rugged outdoor environments and extreme temperatures.

Heater Module

- The temperature-controlled heater module ensures the interior stays warm. The heater module will shut off if above the programmed temperature, minimizing power consumption.

Extended Mounting Brackets

- Extended mounting brackets make it easier to fit and remove the jacket when the instrument is pole or wall mounted.

Notes:

- If the AQS 1 or Dust Sentry is left unpowered for prolonged periods in very low temperatures this can result in damage if not warmed up prior to start up.
- The heater module takes up space within the enclosure therefore it will reduce the room for other components.
- The heater module consumes up to 20W of additional power and this should be considered for solar/battery powered applications.
- A PM engine (PCX, nephelometer) is required in the instrument to achieve the stated temperature ranges.



Winterization Jacket showing door access