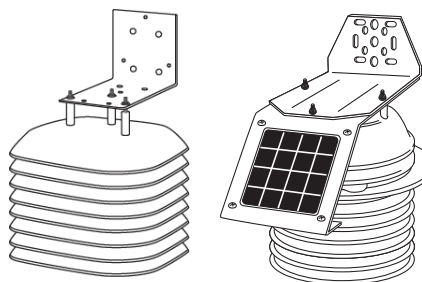


Radiation Shields

Passive and Fan Aspirated

7714
6838



Davis radiation shields help maximize accuracy of sensor readings.

The passive Radiation Shield (product number 7714) protects temperature sensors from solar radiation and radiated or reflected heat sources.

The 24-Hour Fan Aspirated Radiation Shield includes a solar- and battery-powered, motor-driven fan that draws a constant airflow through the sensor chamber. At night, when the effects of radiation are less, the fan runs on battery. This provides more accurate temperature readings than passive shielding alone.

General

Operating Temperature -40° to +150° F (-40° to +65° C)
Housing Material UV-resistant PVC plastic

Passive Radiation Shield (7714)

Dimensions (with bracket) 5.25" H X 8.75" L X 7.75" W
(133 mm x 222 mm x 197 mm)
Weight (with bracket) 3.5 (1.6 kg)

24-Hour Fan Aspirated Radiation Shield (6838)

Dimensions 16" H X 11" L X 10.25" W
(406 mm x 280 mm x 260 mm)
Weight ((with bracket) 6.6 (3 kg)
Aspiration Rate
Intake flow rate, full sun 190 feet/min (0.96 m/s)
Intake flow rate, battery only 80 feet/min (0.4 m/s)
Sensor chamber flow rate, full sun 500 feet/min (2.5 m/s)
Sensor chamber flow rate, battery only 180 feet/min (0.9 m/s)
Radiation Induced Temperature Error 0.5°F (0.3C°)
At solar noon, insolation = 1040 W/m2
Battery Charge/Operating Temperature 32° to 113 °F (0° to +45C)
Fan Primary Power Solar panel
Fan Secondary Power 1 or 2 1.2 Vilt NiMH C-cells

Package Dimensions

Product #	Package Dimensions (Length x Width x Height)	Package Weight	UPC Codes
7714	5.25" x 8.75" x 7.75" (133 mm x 222 mm x 197 mm)	3.5 (1.6 kg)	011698771400
6838	16"x 11" x 10.25" (406 mm x 280 mm x 260 mm)	6.9 lbs. (3.1 kg)	011698013654