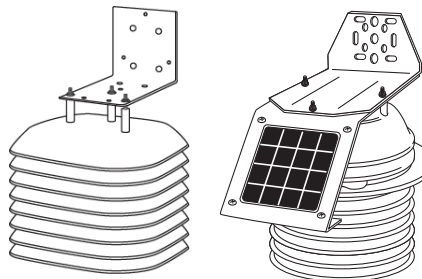


# Radiation Shields

## 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 fulow 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 panelFan  
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