

Self-Aspirating Radiation Shield

Capricorn™ Data Bulletin

Catalog Number: 82101



When temperature accuracy is critical – especially in environments where your temperature sensor is subject to incident radiation from either direct sunlight or proximate surfaces – a radiation shield is the solution.

Columbia's self-aspirating radiation shield will help you get the most accurate temperature reading from your Capricorn II or other temperature sensor.

We listened to our customers to find out just what they needed and developed a thermally-engineered shield unlike anything available elsewhere. Our response is a high-quality radiation shield with the following features.

Features

- Self-aspirating, requiring no electricity to operate.
- Gloss white powder-coated aluminum construction insures high surface reflectivity and provides long-lasting protection from exposure, even in harsh environments.
- Overlapping, eight-cup design allows efficient air circulation, absolutely no penetration of incident radiation.
- Very easy to assemble and hook up to temperature sensor.
- Easy to mount with heavy gauge, thermally isolated sensor support.

Columbia's radiation shield provides a sizeable column of air for an accurate ambient air temperature reading. Thermal transfer is optimized so heat dissipates rapidly. Two layers of aluminum between the sensor and the top of the shield prevent the probe from detecting radiation from above.

Specifications

Capacity: One temperature probe, maximum diameter 5/16" (7.94mm)

Mounting: U-bolt bracket included for mast mounting as shown, maximum diameter 1-1/2", mast not included

Size: 4-1/2" shield diameter, 10" height (including mounting bracket)

Shipping Weight: 1 lb. / 0.4kg

Order Information

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Description: Self-Aspirating Radiation Shield

Includes:

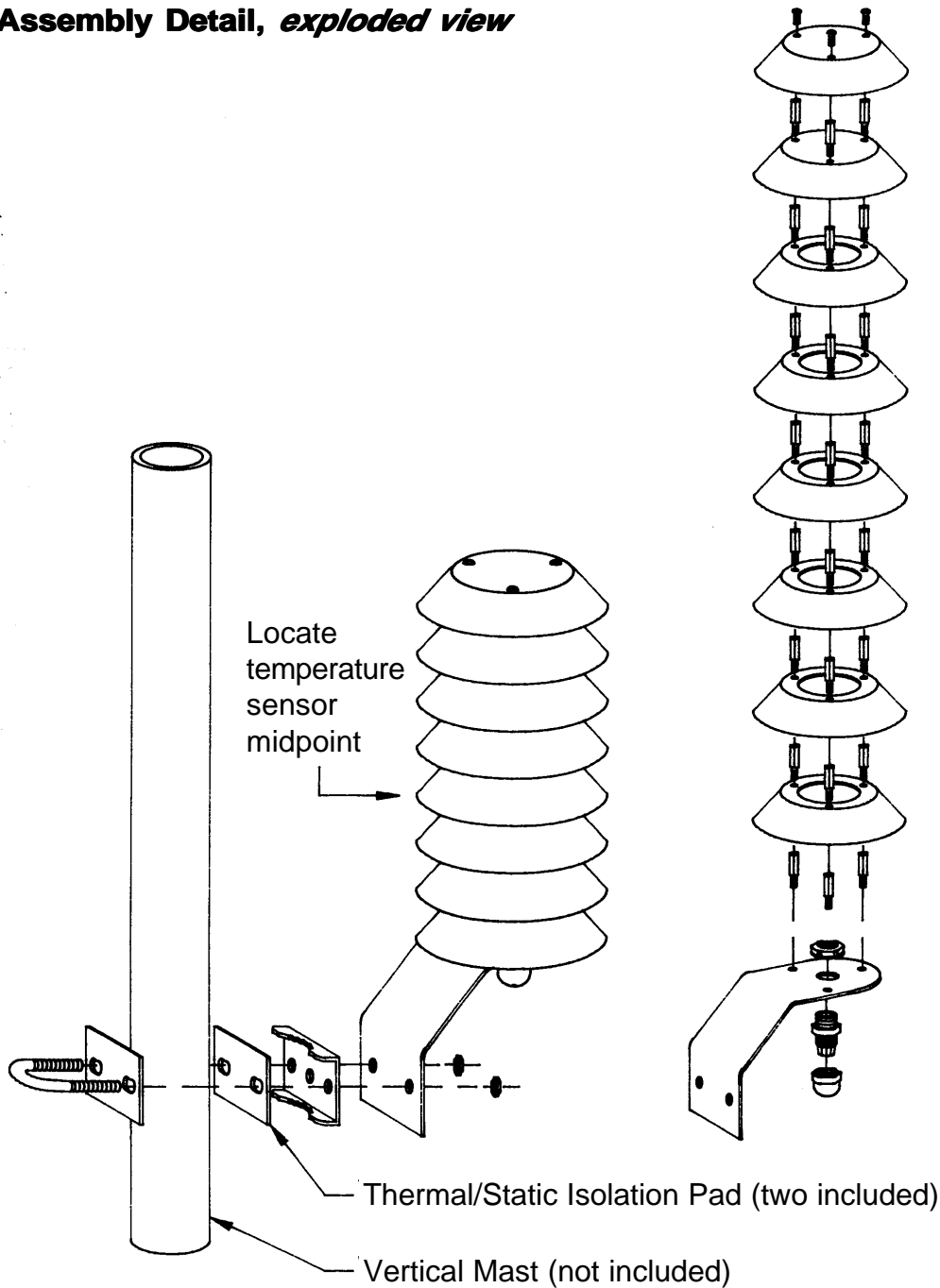
- Shield, easy assembly required (see illustration on back page)
- U-bolt mounting bracket, with isolation pads
- Assembly instructions



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Assembly Detail, *exploded view*



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