

Self-Aspirating Radiation Shield

Capricorn™ Data Bulletin

Catalog Number: 82103



When accuracy is critical – especially in environments where your sensors may be 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 and/or humidity readings.

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 install.
- 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 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(s) from being effected by radiation from above.

Specifications

Capacity: Maximum diameter 7/8" (22 mm)

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

Size: 4-1/2" shield diameter, 10" height (6" shield cup assembly plus mounting bracket)

Shipping Weight: 1 lb. / 0.4kg

Order Information

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Description: Self-Aspirating Radiation Shield

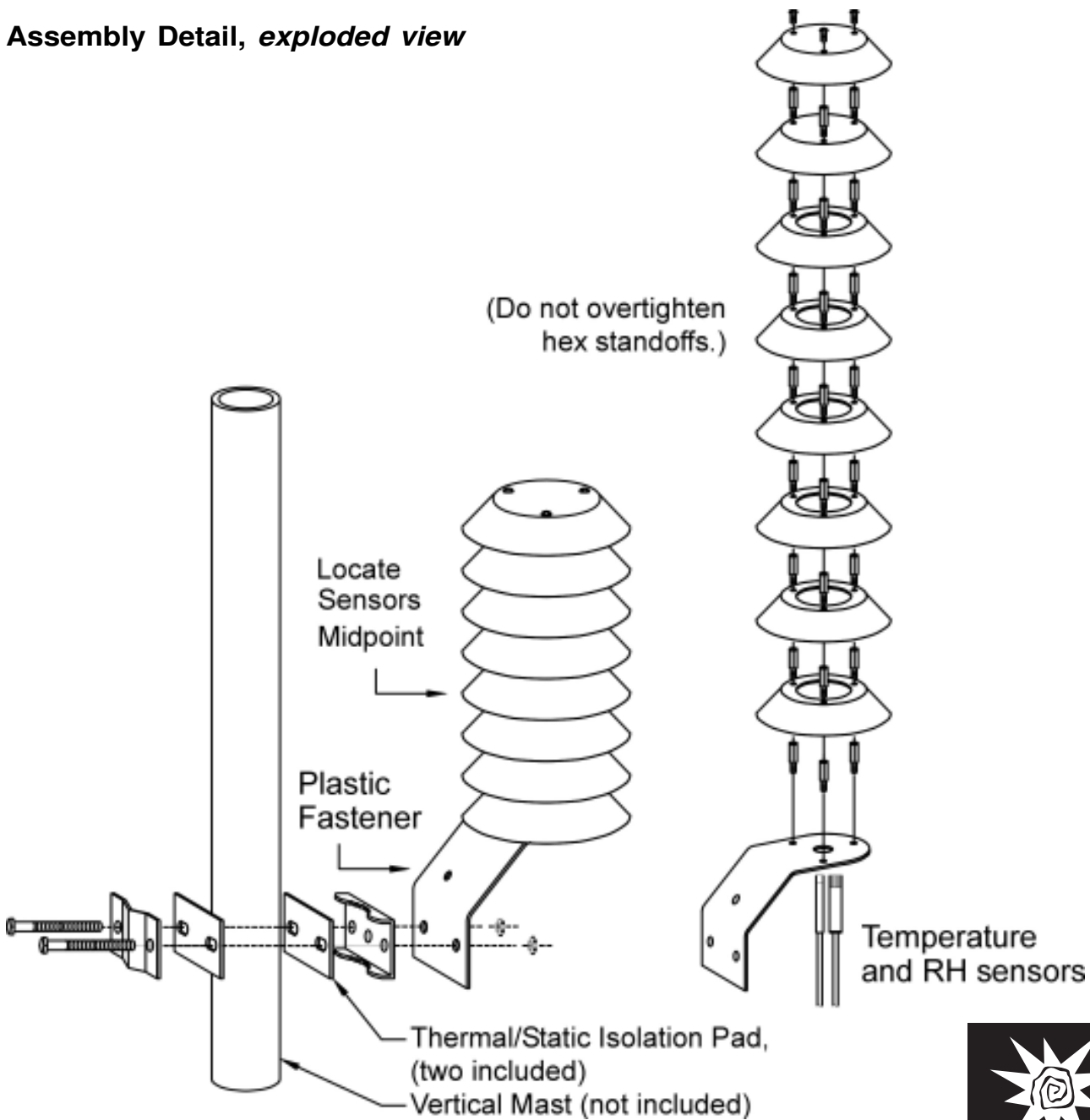
Includes:

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



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Assembly Detail, *exploded view*



Insert humidity and/or temperature sensor(s) in the radiation shield to the midway point and secure cable(s) to the plastic fastener on the mounting bracket using the provided tiwrap.



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