

# Self-Aspirating Radiation Shield

Capricorn™ Data Bulletin

Catalog Number: 82103



**W**hen 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

**Catalog Number:** 82103

**Description:** Self-Aspirating Radiation Shield

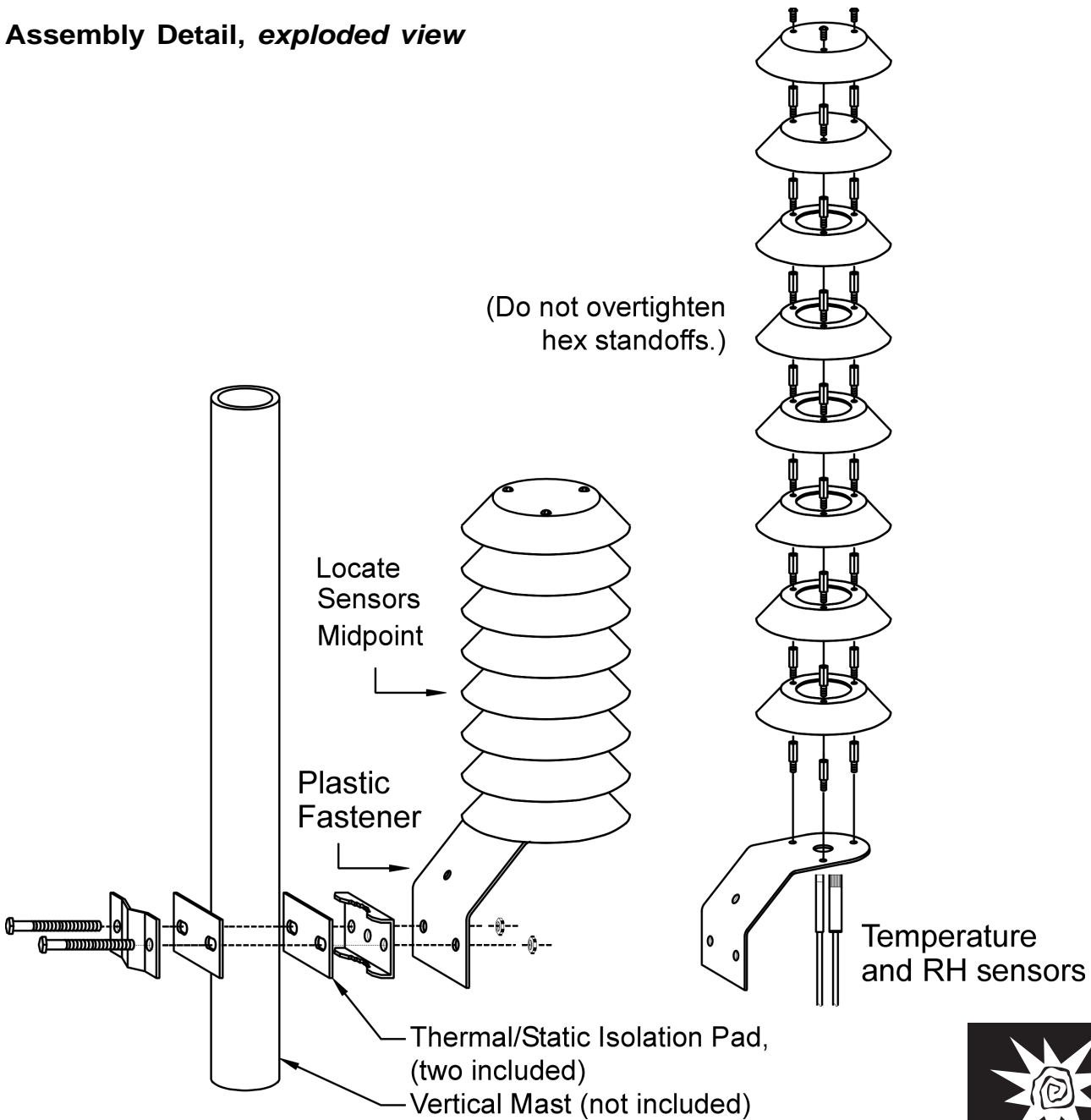
### Includes:

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



**Columbia Weather Systems, Inc.**  
5285 NE Elam Young Parkway, Suite C100  
Hillsboro, OR 97124  
Toll-free 1 888 508-7375  
Phone (503) 629-0887  
Fax (503) 629-0898  
info@columbiaweather.com  
www.columbiaweather.com

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.



**Columbia Weather Systems, Inc.**  
5285 NE Elam Young Pkw  
Suite C100  
Hillsboro, OR 97124  
Toll-free 1 888 508-7375  
Phone (503) 629-0887  
Fax (503) 629-0898  
info@columbiaweather.com  
www.columbiaweather.com