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# Motor Aspirated Radiation Shield 8190 Series



- **Virtually Maintenance Free**
- **Heavy Duty**
- **Reliable**

## Overview

The 8190 Series Motor Aspirated Radiation Shields (MARS), manufactured by AWI, provide protected mounting for temperature and humidity probes, shielding them from direct solar heating and precipitation contact. The 8190 series are virtually maintenance-free radiation shields constructed of heavy-duty, non-corrosive polymer, and featuring a reliable, long-life 12 VDC fan for continuous aspiration. Each MARS accommodates one probe: a temperature probe, a humidity probe, or a combination temperature/humidity probe. All cable terminations to the MARS are made through weatherproof connectors mounted on the enclosure.

**SENSORS**

## SPECIFICATIONS

Parameter	Specification
Operating Temperature Range	-40° to +55°C
Radiation Error	0.5°F @ 12VDC and 1000 W/m <sup>2</sup> solar radiation
Air Flow	360 ft./min. @ 12VDC
Fan Life	70,000 hours @ 40°C
Power	8-15 VDC

## ORDERING INFORMATION

Part Number	Description
8190-01	Motor Aspirated Radiation Shield (Corrosion Resistant)
8190-02	Motor Aspirated Radiation Shield (Adapted for -60° to +60°C temp probe.)
8190-03	Motor Aspirated Radiation Shield (modified for use with a frangible tower)

## DIMENSIONS & WEIGHTS

Size	42" x 13.5" x 6" (107 cm x 35 cm x 15 cm)
Weight	10 lbs (4.6 kg)
Shipping Dimensions	48" x 19" x 8" (122 cm x 48.3 cm x 20.3 cm)
Shipping Weight	21 lbs (9.53 kg)



**All Weather Inc.**  
1165 National Dr.  
Sacramento, CA 95834

Phone: 916-928-1000  
USA Toll Free: 800-824-5873  
Fax: 916-928-1165

[www.allweatherinc.com](http://www.allweatherinc.com)

Rev. B 11/2011