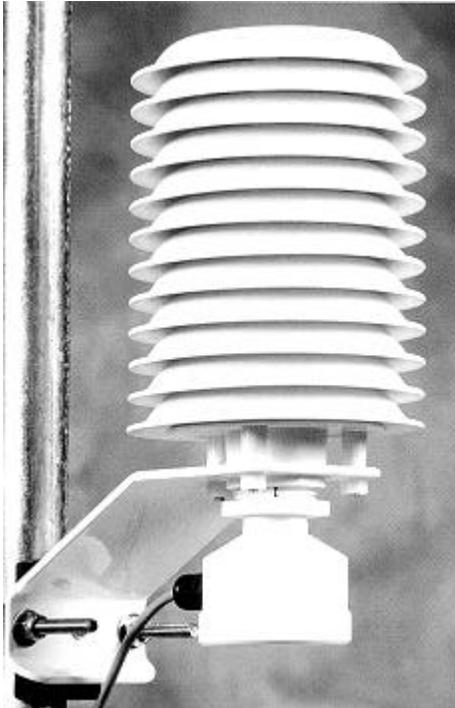




J & S Instruments, Inc.

3071 State Route 72 South
Springfield, Ohio 45505-5023
Phone 937-325-7499
Fax 937-323-9588



AS-175 & AS-180 RADIATION SHIELDS DATA SHEET

The AS-175 and AS-180 Radiation Shields are designed to protect atmospheric sensors from error producing solar radiation and precipitation. These units are compact and lightweight for multiple applications.

The AS-175 is constructed of twelve gill like plates with a hollow core to accommodate probes up to one inch in diameter and up to 10 inches in length. The unit comes complete with a U-bolt mounting plate and clamp to secure to any vertical pipe up to two inches in diameter. The shield's unique profile blocks direct and reflected solar radiation while still allowing easy passage of air. Its ultraviolet stabilized white thermoplastic plates offer high reflectivity, low thermal conductivity and rugged weather resistance.

The AS-180 is constructed using concentric downward facing intake tubes and a small canopy to shade/isolate a sensor from both direct and indirect radiation. This unit is power aspirated to provide maximum sensor protection from incoming short wave solar radiation and outgoing long wave radiation. Its continuous duty 12 VDC blower draws air through its

AS-175

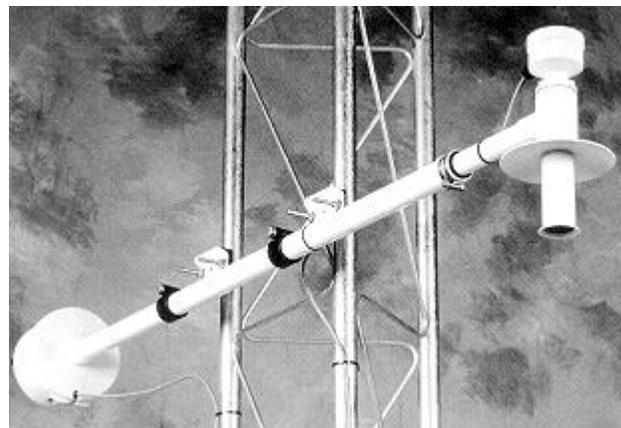
tubes across the sensor to minimize

heat transfer. This shield is designed for installation on a double mast up to

two inches in diameter such as the side of a tower using supplied v-blocks and U-bolts. The shield comes complete with six feet of cable, a VAC adapter and accommodates sensors with up to a 3/4" diameter.

The AS-175 and AS-180 are intended for use with the AS-100 series of relative humidity and temperature sensors.

SPECIFICATIONS:		
	AS-170	AS-180
Radiation error:	0.7° F @ 6.7 MPH	0.4° F RMS
	1.3° F @ 4.5 MPH	
	1.5° F @ 2.2 MPH	
Dimensions:	10.6" H	43 to 75" adjustable L
Shield size:	4.7" Dia.	1.3" Dia.
Weight:	1.5 Lbs.	5.3 Lbs.
Supply voltage:	N/A	12 VDC
Supply current:	N/A	500 mA
Aspiration rate:	N/A	11 to 25 FPS



AS-180

The AS-175 and AS-180 Radiation Shields come complete with a full one year warranty against defects in materials or workmanship.

March 1998