

# Radiation Shield

## 075B

The Model 075B is a motor powered aspirated radiation shield equipped with a solar cell and battery assembly that powers the fan motor.

### Features

- Solar powered aspirated radiation shield
- Use with temperature and combined RH/temp sensors
- 24 hour per day operation

### Operation

The Model 075B is designed to be used with several temperature or relative humidity/temperature combined sensors. The sensor is shielded by concentric aluminum plates to reflect solar energy, while the aspiration fan provides constant air flow over the sensor. In operation, the solar array provides recharging for the included Ni-Cad battery, allowing 24 hour per day operation. The shield is designed to greatly reduce errors due to direct solar radiation and reflected terrestrial radiation.

The Model 075B Radiation Shields are normally used with Model 064 Temperature Sensors or Model 083D or 083V Temperature/Relative Humidity Sensors. These sensors are supplied with a quick disconnect connector. Mating cables are supplied with several types of termination. Refer to cable drawings in the sensor manuals for particular wiring.



The Model 075B Solar Power Aspirated Radiation Shield provides accurate temperature measurement without AC power.

### Specifications

Sensors:	064A, 083D, 083V
Flow Rate:	600 CFH
Transducer Sensing Zone:	1 in (25.4 mm) maximum
Max. Transducer Diameter:	3/4 in (19 mm)
Mounting:	1 in (25.4 mm) tubing or 3/4 in IPS pipe
Plate Material:	Spun aluminum
Finish:	White epoxy paint
Weight:	6 lbs (2.72 kg)
Size (less sensor):	14.25 in (36.2 cm) d x 6 in (15.24 cm) h



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