

# Type 180: 1.8m Receive-Only Antenna System



## PRODUCT SPECIFICATIONS



Detail Photos  
(on right from top to bottom)  
Pre-assembled Az/El Mount  
Fine-elevation adjustment  
with stamped degree scale  
Ku feed assembly with LNB  
cover

## 1.8 m Receive-Only Antenna System TYPE 180

The one-piece reflector is thermoset-molded for strength and surface accuracy.



The Skyware Global 1.8 m Type 180 Offset Antenna is a rugged commercial grade product suitable for the most demanding applications. The reflector is thermoset-molded for strength and surface accuracy. Molded into the rear of the reflector is a network of support ribs which not only strengthens the antenna, but also helps to sustain its critical parabolic shape.

The Az/El mount is constructed from heavy-gauge steel to provide a rigid support to the reflector. The Az/El mount secures the antenna to any 114 mm (4.50") O.D. mast and prevents slippage in high winds.

A specially formulated powder paint process offers excellent protection from weather-related corrosion

- All materials comply with EU directive No. 2002/95/EC (RoHS).
- One-piece thermoset-molded offset reflector.
- Single bolt fine elevation adjustment.
- Fine azimuth adjustment.
- Galvanized 19 mm (.75") O.D. feed support legs.
- Factory pre-assembled mount.
- Plated hardware for maximum corrosion resistance.
- Hot dip galvanized Az/El mount.
- Available with a wide variety of C-band or Ku-band feeds.

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• PRODUCT SPECIFICATIONS

1.8m Receive Only Antenna System

RF Performance

	C-band	Ku-band
Effective Aperture .....	1.8 m (71 in) .....	1.8 m (71 in)
Operating Frequency .....	3.7 - 4.2 GHz .....	10.95 - 12.75 GHz
Polarization .....	Linear (Circular Optional) ..	Linear (Circular Optional)
Gain @ 3.95/11.95 GHz ...	35.3 dBi .....	45.5 dBi
3 dB Beamwidth .....	3.0° .....	1.0°
Antenna Noise Temperature @ 30° Elevation .....	36° K .....	31° K
VSWR* .....	1.4:1 .....	1.3:1
Antenna Cross Polarization .....	30 dB on Axis (Linear) ..	30 dB on Axis (Linear)
Feed Interface .....	CPR-229 .....	WR75 Flat Flange

(All specifications typical)

\*Function of feed specifications

Mechanical Performance

Reflector Material .....	Glass Fiber Reinforced Polyester
Antenna Optics .....	One-Piece Offset Feed Prime Focus
Mount Type .....	Elevation over Azimuth
Elevation Adjustment Range .....	10° - 90° Continuous Fine Adjustment
Azimuth Adjustment Range .....	360° Continuous ± 10° Fine Adjustment
Mast Pipe Interface .....	114 mm (4.50 in) Diameter
Wind Loading	Operational .....
	Survival .....
Temperature .....	-50°C to 80°C
Humidity .....	0 to 100% (Condensing)
Atmosphere .....	Standard Hardware Meets 500 Hour Salt Spray Test Requirements (ASTM B-117)
Solar Radiation .....	360 BTU/h/ft <sup>2</sup>
Shock and Vibration .....	As Encountered During Shipping and Handling



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