

**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



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



## 1.8 m Receive-Only Antenna System

### TYPE 180

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.

## SPECIFICATIONS

### Type 180 1.8 m 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<br>@ 30° Elevation | 36° K                      | 31° K                      |
| VSWR *                                       | 1.4:1                      | 1.3:1                      |
| Antenna<br>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 80 km/h (50 mph)<br>Survival 200 km/h (125 mph)                |
| 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                                |