

HPX12-71-D1M



3.7 m | 12 ft High Performance Parabolic Shielded Antenna, dual-polarized, 7.125–7.750 GHz, PDR84, gray antenna, standard white radome with flash, standard pack—two-piece reflector

Product Classification

| | |
|---------------------|-------------------|
| Product Type | Microwave antenna |
|---------------------|-------------------|

General Specifications

| | |
|-------------------------------|---|
| Antenna Type | HPX - High Performance Parabolic Shielded Antenna, dual-polarized |
| Diameter, nominal | 3.7 m 12 ft |
| Packing | Standard pack |
| Radome Color | White |
| Radome Material | Standard |
| Reflector Construction | Two-piece reflector |
| Antenna Input | PDR84 |
| Antenna Color | Gray |
| Antenna Type | HPX - High Performance Parabolic Shielded Antenna, dual-polarized |
| Diameter, nominal | 3.7 m 12 ft |
| Flash Included | Yes |
| Polarization | Dual |

Electrical Specifications

| | |
|---|-------------------|
| Operating Frequency Band | 7.125 – 7.750 GHz |
| Operating Frequency Band | 7.125 – 7.750 GHz |
| Radiation Pattern Envelope Reference (RPE) | 2758E |

Mechanical Specifications

| | |
|----------------------------------|------------------------|
| Fine Azimuth Adjustment | ±5° |
| Fine Elevation Adjustment | ±5° |
| Mounting Pipe Diameter | 115 mm 4.5 in |
| Net Weight | 431 kg 950 lb |
| Side Struts, Included | 1 inboard 1 outboard |
| Side Struts, Optional | 2 outboard |

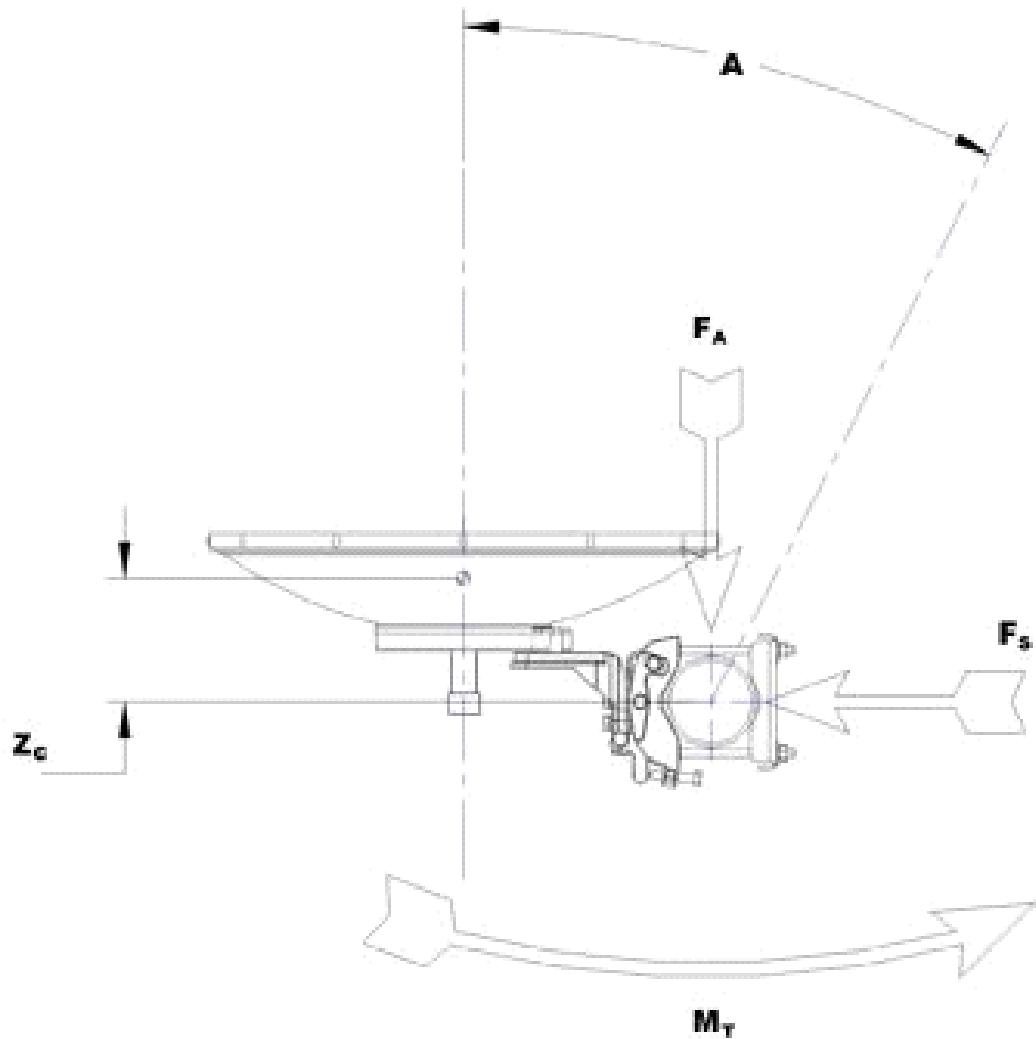
HPX12-71-D1M

| | |
|--------------------------------------|--------------------|
| Wind Velocity Operational | 110 km/h 68 mph |
| Wind Velocity Survival Rating | 200 km/h 125 mph |

Wind Forces At Wind Velocity Survival Rating

| | |
|--|---------------------------|
| Angle α for MT Max | -110 ° |
| Axial Force (FA) | 25390 N 5708 lbf |
| Force on Inboard Strut Side | 8000 N 1798 lbf |
| Force on Outboard Strut Side | 11500 N 2585 lbf |
| Side Force (FS) | 12577 N 2827 lbf |
| Twisting Moment (MT) | -14132 N-m -10423 ft lb |
| Weight with 1/2 in (12 mm) Radial Ice | 895 kg 1973 lb |
| Zcg with 1/2 in (12 mm) Radial Ice | 914 mm 36 in |
| Zcg without Ice | 808 mm 32 in |

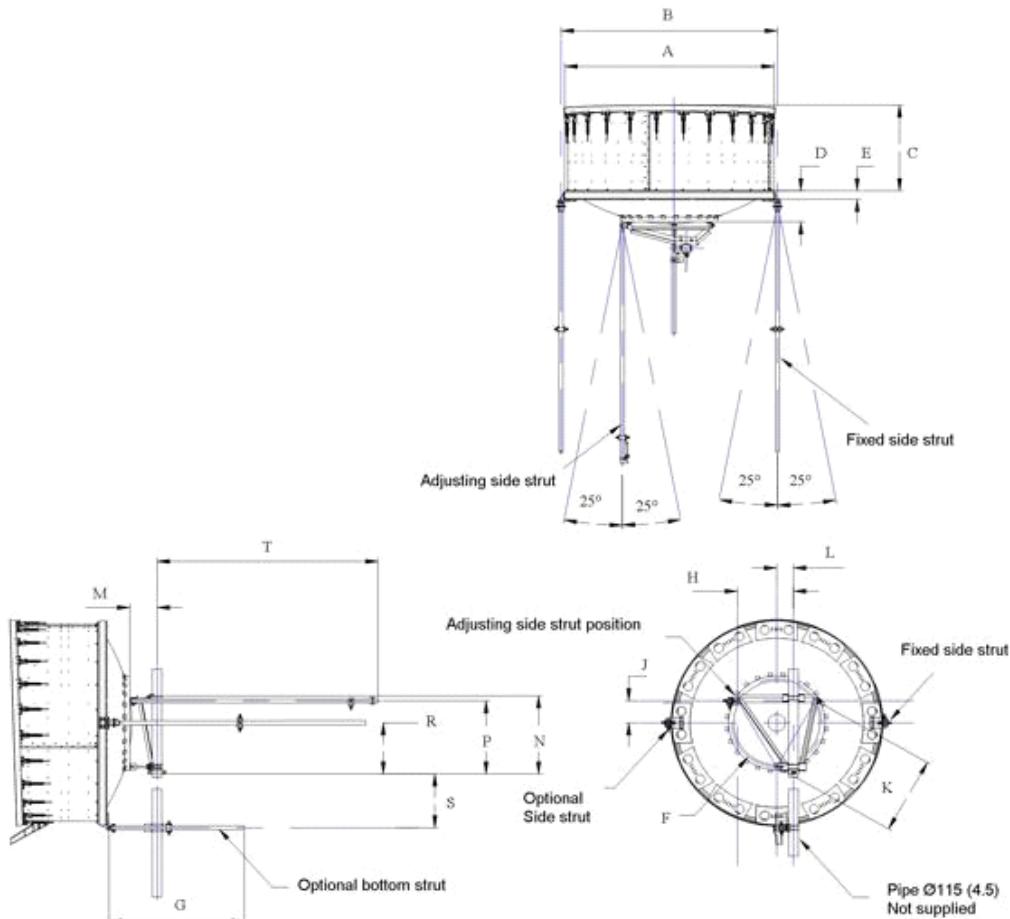
Wind Forces At Wind Velocity Survival Rating Image



Packed Dimensions

| | |
|-------------------------------------|----------------------|
| Gross Weight, Packed Antenna | 730.0 kg 1609.4 lb |
| Height | 2140.0 mm 84.3 in |
| Length | 3990.0 mm 157.1 in |
| Volume | 13.1 m ³ |
| Width | 1530.0 mm 60.2 in |

Antenna Dimensions And Mounting Information



| ANTENNA DIMENSIONS | | | |
|-------------------------------|--------------|---|--------------|
| All dimensions in mm (inches) | | | |
| A | 3775 (148.5) | K | 1205 (47.5) |
| B | 3915 (154.5) | L | 215 (8.5) |
| C | 1090 (43.0) | M | 330 (13) |
| D | 685 (27.0) | N | 1225 (48.25) |
| E | 145 (5.75) | P | 1145 (45.0) |
| F | 1430 (56.25) | R | 790 (31.0) |
| G | 1525 (60) | S | 1140 (44.75) |
| H | 835 (32.75) | T | 3050 (120) |
| J | 355 (14.0) | | |

Regulatory Compliance/Certifications

Agency
ISO 9001:2015

Classification
Designed, manufactured and/or distributed under this quality management system



* Footnotes

Axial Force (FA)

Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.

Operating Frequency Band

Bands correspond with CCIR recommendations or common allocations used throughout the world. Other ranges can be accommodated on special order.

Packing

Andrew standard packing is suitable for export. Antennas are shipped as standard in totally recyclable cardboard or wire-bound crates (dependent on product). For your convenience, Andrew offers heavy duty export packing options.

Radiation Pattern Envelope Reference (RPE)

Radiation patterns define an antenna's ability to discriminate against unwanted signals. Under still dry conditions, production antennas will not have any peak exceeding the current RPE by more than 3dB, maintaining an angular accuracy of +/-1° throughout

Side Force (FS)

Maximum side force exerted on the mounting pipe as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.

Twisting Moment (MT)

Maximum forces exerted on a supporting structure as a result of wind from the most critical direction for this parameter. The individual maximums specified may not occur simultaneously. All forces are referenced to the mounting pipe.

Wind Velocity Operational

The wind speed where the antenna deflection is equal to or less than 0.1 degrees. In the case of ValuLine antennas, it is defined as a maximum deflection of 0.3 x the 3 dB beam width of the antenna.

Wind Velocity Survival Rating

The maximum wind speed the antenna, including mounts and radomes, where applicable, will withstand without permanent deformation. Realignment may be required. This wind speed is applicable to antenna with the specified amount of radial ice.