



## HPX12-71-D1P

**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, non-standard pack—two-piece reflector**

### General Specifications

Antenna Type	HPX - High Performance Parabolic Shielded Antenna, dual-polarized
Diameter, nominal	3.7 m   12 ft
Packing	Non-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
Wind Velocity Operational	110 km/h   68 mph
Wind Velocity Survival Rating	200 km/h   124 mph

### Wind Forces At Wind Velocity Survival Rating

Angle $\alpha$ 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

HPX12-71-D1P



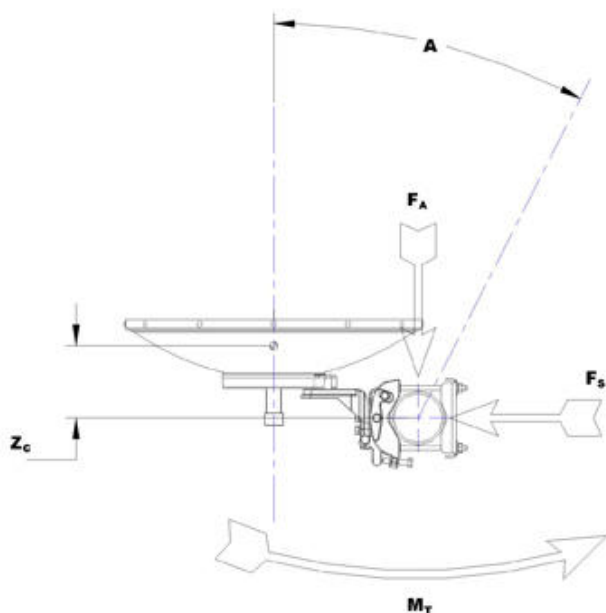
Side Force (FS)	12577 N   2827 lbf
Twisting Moment (MT)	-14132 N•m
Weight with 1/2 in (12 mm) Radial Ice	895 kg   1973 lb
Zcg with 1/2 in (12 mm) Radial Ice	914 mm   36 in
Zcg without Ice	808 mm   32 in

HPX12-71-D1P

POWERED BY



## Wind Forces At Wind Velocity Survival Rating Image



## Packed Dimensions

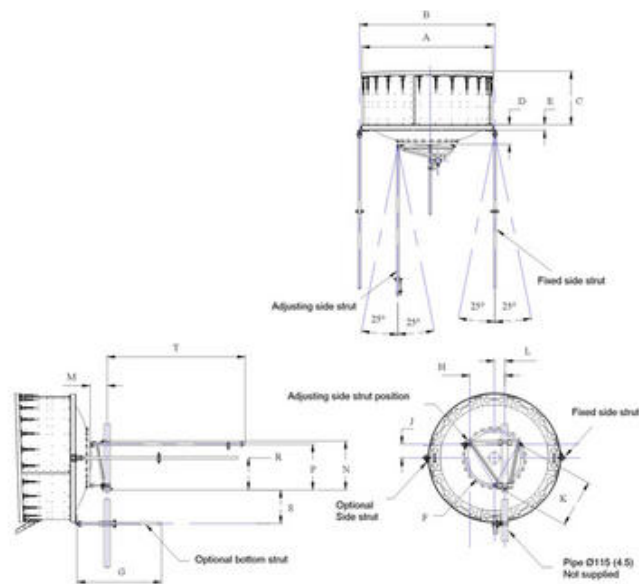
Note

Non-standard packing option—contact 1-800-255-1479 (North America), 1-800-873-2307 (International), or an Andrew representative

HPX12-71-D1P



## 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	Classification
ISO 9001:2008	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 determine an antenna's ability to discriminate against unwanted signals under conditions of radio congestion. Radiation patterns are dependent on antenna series, size, and frequency.

HPX12-71-D1P

POWERED BY



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.