# Antenna THP 18 212 D

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## General Specifications

| | |
|---|---|
| Diameter | 1.8m |
| Standard Colour | RAL 7035 |
| Shroud | Low profile |
| Antenna Input | Interface for IEC waveguide R 220 |
| Polarization | Dual |

## Mechanical Characteristics

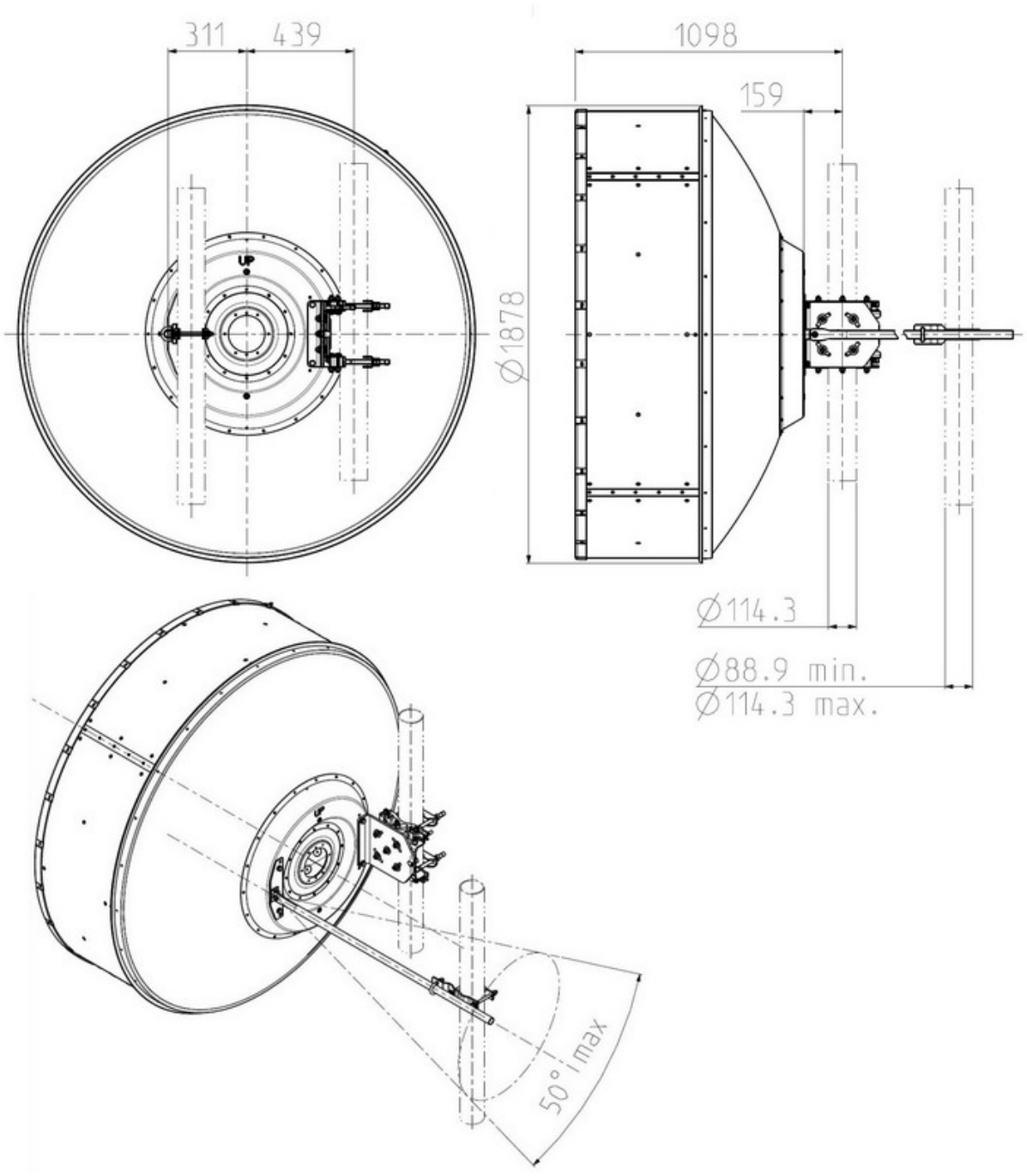
| | |
|---|---|
| Pole | 115 mm |
| Elevation-fine adjustment | +/- 15 deg |
| Azimuth-fine adjustment | +/- 10 deg |
| Side struts, included | 1 |
| Side struts, optional | 1 |
| Net weight | 85 Kg |
| Radome | Rigid plastic |
| Wind velocity Operational | 180 Km/h |
| Wind velocity Survival | 250 Km/h |
| Wind deflection | <0.3 times the -3 dB beamwidth |
| (with a wind velocity of 45 m/s) | Specified wind deflection applies for 115 mm dia mounting pipe only |

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## Antenna Dimensions

(pole mount included)

| | |
|---|---|
| Height | 1880 mm |
| Width | 1880 mm |
| Depth | 1098 mm |



## Wind forces at wind velocity survival rating and with 25 mm (1") ice load

| | |
|---|---|
| Axial force | 11094 N |
| Side force | 5495 N |
| Twisting Moment | 5550 N*m |

Maximum forces exerted on a supporting structure as a result of wind (survival rating) from the most critical direction for each parameter. These values may not occur simultaneously. All forces are referenced to the mounting pipe (diameter 115 mm)

## Electrical Characteristics

| | |
|---|---|
| Frequency range | 21.2 - 23.6 GHz |
| Gain, low band | 49.0 dBi |
| Gain, mid band | 49.8 dBi |
| Gain, top band | 50.2 dBi |
| Return Loss | 17.7 dB |
| VSWR | 1.3 |
| HPBW | 0.5° |
| Front to back ratio | 76 dB |
| Isolation | 35 dB |
| XPD | 30 dB |
| Electrical Compliance | Class 3 |
| | ETSI 302 217 |

## Shipping Information

| | |
|---|---|
| Gross weight | 130 Kg |
| Height | 2090 mm |
| Depth | 600 mm |
| Width | 1970 mm |

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