Antenna THP 18 171 S

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General Specifications

Diameter	1.8m
Standard Colour	RAL 7035
Shroud	Standard profile
Antenna Input	Interface for IEC waveguide R 220
Polarization	Single

Mechanical Characteristics

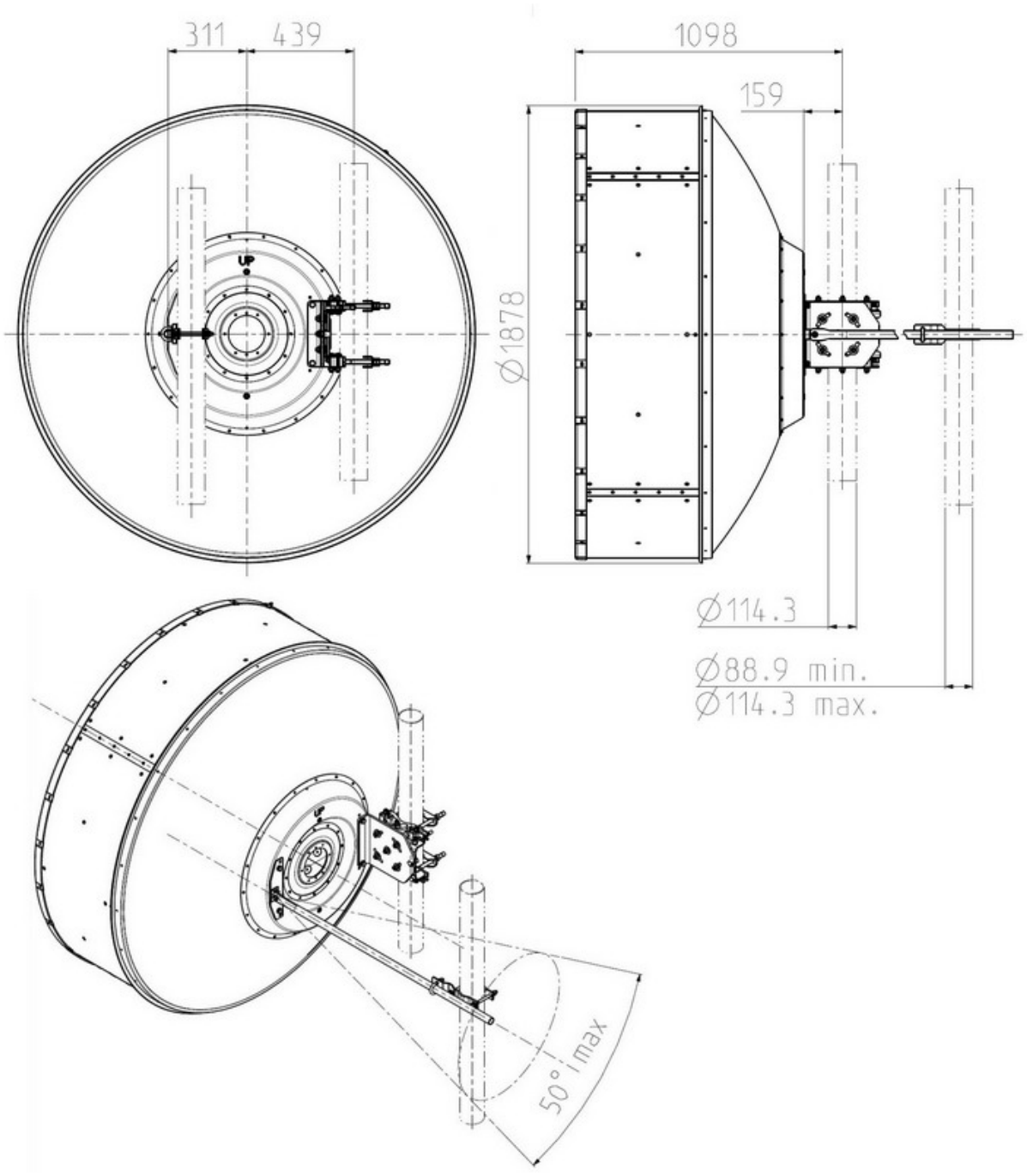
Pole	115 mm
Elevation-fine adjustment	+/- 15 deg
Azimuth-fine adjustment	+/- 10 deg
Side struts, included	1
Side struts, optional	1
Net weight	85 Kg
Radome	Rigid plastic
Wind velocity Operational	180 Km/h
Wind velocity Survival	250 Km/h
Wind deflection	<0.3 times the -3 dB beamwidth
(with a wind velocity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

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Antenna Dimensions

(pole mount included)

Height	1878 mm
Width	1878 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

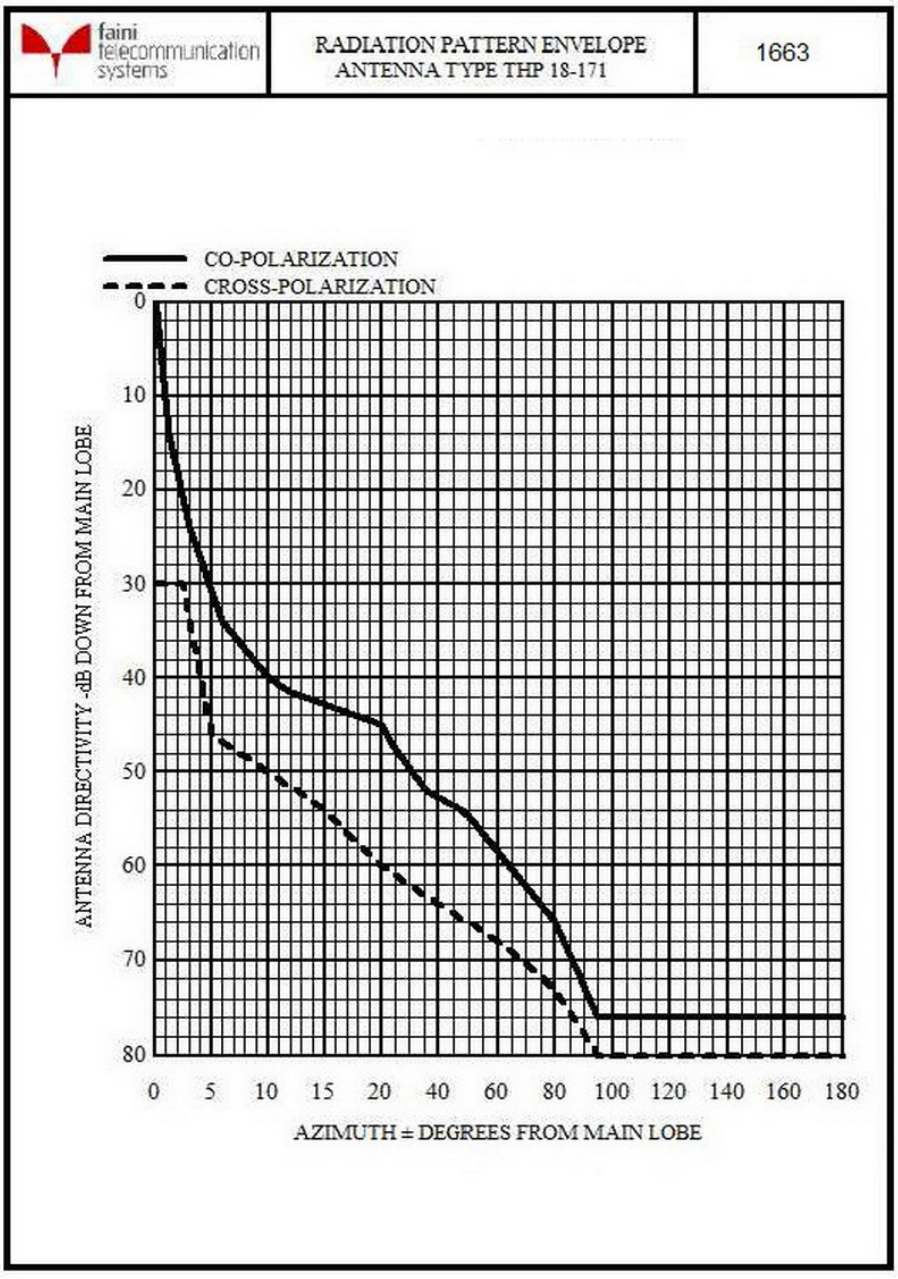
Maximum forces exerted on a supporting structure as a result of wind (survival rating) from the most critical direction for each parameter. These values may not occur simultaneously. All forces are referenced to the mounting pipe (diameter 115 mm)

Electrical Characteristics

Frequency range	17.1 - 17.3 GHz
Gain, low band	47.0 dBi
Gain, mid band	47.1 dBi
Gain, top band	47.2 dBi
Return Loss	14 dB
VSWR	1.5
HPBW	1°
Front to back ratio	76 dB
Isolation	NA
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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RADIATION PATTERN ENVELOPE
ANTENNA TYPE THP 18-171
1663
CO-POLARIZATION
CROSS-POLARIZATION
ANTENNA DIRECTIVITY -dB DOWN FROM MAIN LOBE
0
10
20
30
40
50
60
70
80
0 5 10 15 20 40 60 80 100 120 140 160 180
AZIMUTH = DEGREES FROM MAIN LOBE