

WY 380-3N

WY 400-3N

UHF Base Station 3 Elements Yagi Antennas 380-470 MHz

DESCRIPTION: Base station antennas conceived by using an innovative feed system studied and applied to have highly symmetrical radiation pattern in both planes (E and H). It's completely computer designed to get high performances of gain and front-to-back in the working band. All aluminium parts are protected by anodized treatment, hardware are of Stainless steel or zinc plated steel, mounting bracket is of extruded aluminium for the best strength and the connector is placed in rear position for an easy access. To increase the antenna gain please install it in vertical stacked array.

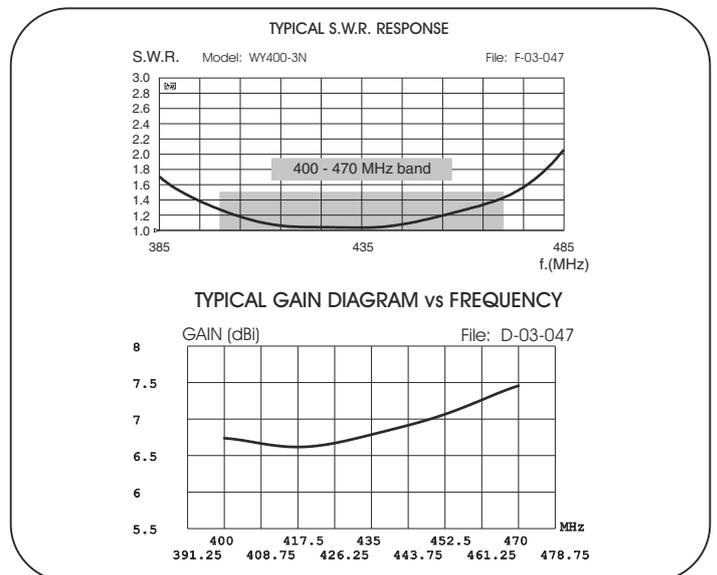
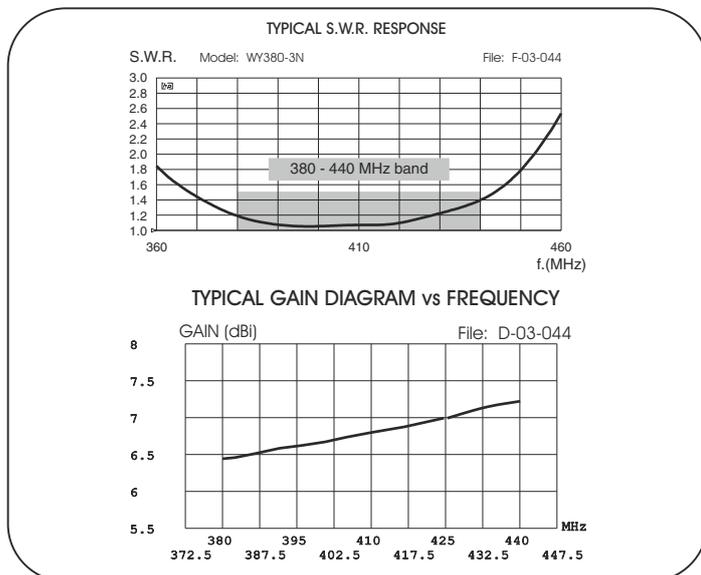
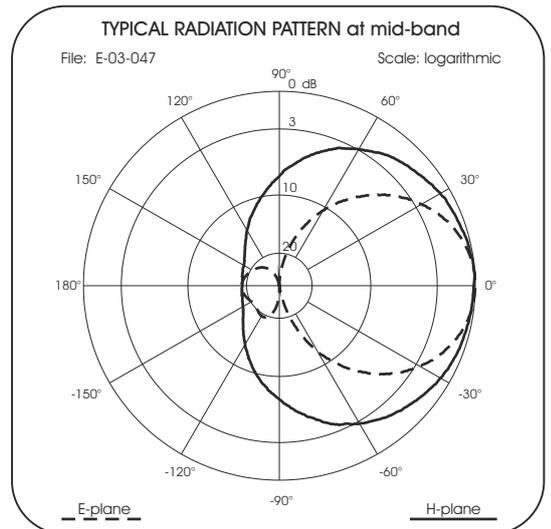
These products are Patented.



Electrical Data	WY 380-3N	WY 400-3N
Type	3 elements Yagi	
Frequency Range @ SWR ≤ 1.5	380 - 440 MHz	400 - 470 MHz
Impedance	50 Ω	
Radiation (H-plane) beamwidth @ -3 dB	125° - HCM code = 062LA14	
Radiation (E-plane) beamwidth @ -3 dB	65° - HCM code = 032EA14	
Front to back ratio	≥ 17 dB	
Polarization	Linear Vertical or Horizontal	
Gain	4.85 dBd - 7 dBi	
Max Power (CW) @ 30°C	150 Watts	
Grounding Protection	All metal parts are DC-grounded, the inner conductor shows a DC short	
Connector	N-female with rubber protection cap	

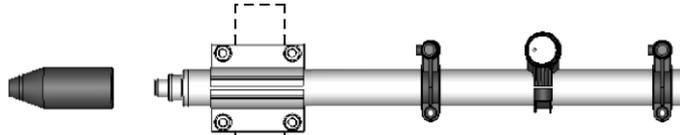
Mechanical Data

Materials	Anodized 6063-T5 Aluminium, EPDM rubber, thermoplastic UV stabilized, Chromed Brass	
Wind Load @ 150 km/h	65 N	63 N
Wind Resistance	180 Km/h; 112 mi/h	180 Km/h; 112 mi/h
Wind Surface	0.048 m ² ; 0.51 ft ²	0.047 m ² ; 0.50 ft ²
Dimensions W x H (approx.)	565 x 400 mm; 1.9 x 1.3 ft	525 x 375 mm; 1.7 x 1.2 ft
Turning radius (approx.)	460 mm; 1.5 ft	420 mm; 1.4 ft
Weight (approx.)	1150 gr; 2.5 lb	1120 gr; 2.5 lb
Operating temperature	-40° C to +60° C	
Mounting Mast	∅ 35 - 60 mm; ∅ 1.4 - 2.4 in	
Boom / Dipole / Element Diameter	∅ 32 mm; 1.3 in / ∅ 24 mm; 0.95 in / ∅ 12 mm; 0.5 in	



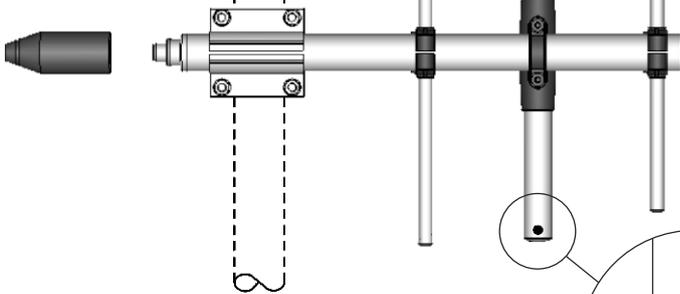
MOUNTING INSTRUCTIONS

Correct mounting for horizontal polarization

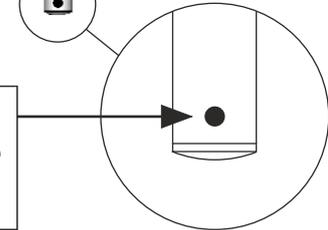


		LR	L1	DR	D1
WY 380-3N	(mm)	396	276	132	106
	(in)	15.6	10.9	5.2	4.2
WY 400-3N	(mm)	371	260	124	100
	(in)	14.6	10.2	4.9	3.9

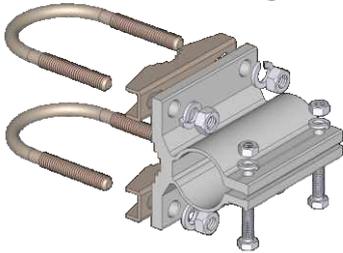
Correct mounting for vertical polarization



If mounted for vertical polarization place the draining hole at the bottom.



Standard FT-6 Mounting Bracket



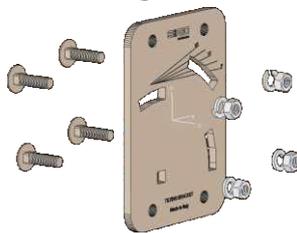
Spare parts: p/n 2519913.00

Materials: extruded aluminum
Hardware: stainless steel
Dimensions : 90 x 85 x 65 mm
Weight: 550 gr

Part list

Q.ty	Description
1	Extruded aluminium bracket
2	Steel bracket
2	M8x216 U-bolt
4	M8 Grower washer
4	M8 Hexagonal nut
2	M6x20 Hexagonal head screw
2	M6 Grower washer
2	M6 Hexagonal nut

Tilting Bracket*



Order p/n: 2519803.00

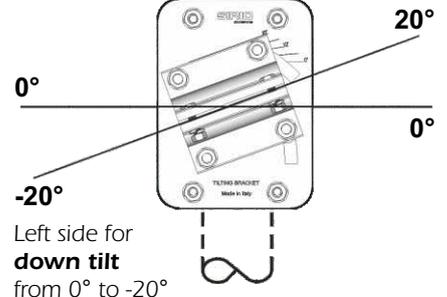
Materials & Hardware: zinc plated steel
Dimensions: 115 x 155 x 6 mm.
Weight: 870 gr

Part list

Q.ty	Description
1	115x155x6 Tilting bracket
4	M8x25 Spheric head screw
4	M8 Grower washer
4	M8 Hexagonal nut

Mounting example

Right side for
upper tilt
from 0° to 20°

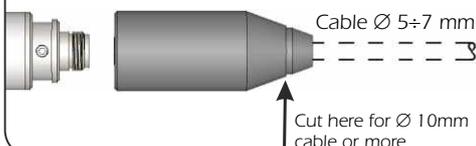


Left side for
down tilt
from 0° to -20°

* **Optional (not included).**

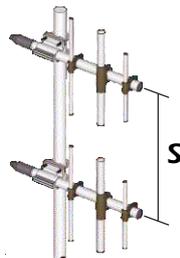
Connector protection cap

Spare parts: p/n TE06416

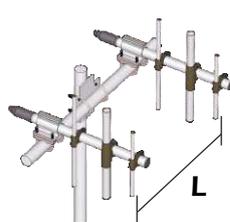


Stacking and Baying distance

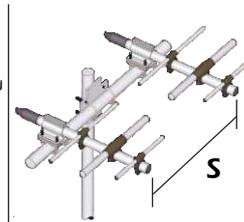
WY380-3N: L=370mm; 14.5in. S=530mm; 20.8in
WY400-3N: L=350mm; 13.8in. S=500mm; 19.7in



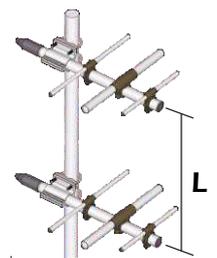
Vertical polarization
(Stacked)



Vertical polarization
(Bayed)



Horizontal polarization
(Bayed)



Horizontal polarization
(Stacked)



HI-QUALITY ANTENNAS MADE IN ITALY