## WD 140-N WD 155-N

## VHF Base Station Dipole Antennas 140-175 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 easily access. To increase the antenna gain please install it in vertical stacked array.

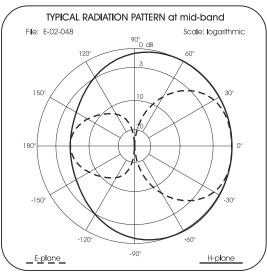
These products are Patented.

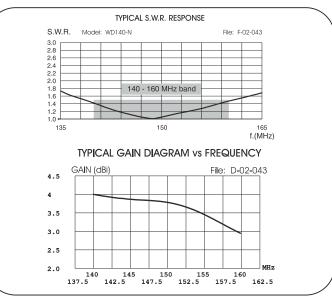
Electrical Data	WD 140-N	WD 155-N
Туре	Half Wave Dipole	
Frequency Range @ SWR ≤ 1.5	140 - 160 MHz	155 - 175 MHz
Impedance	50 Ω	
Radiation (H-plane) beamwidth @ -3 dB	245°	
Radiation (E-plane) beamwidth @ -3 dB	80°	85°
Front to back ratio	≥ 5 dB	
Polarization	Linear Vertical	
Gain	1.85 dBd - 4 dBi	
Max Power (CW) @ 30°C	200 Watts	
Grounding Protection	All metal parts are DC-grounded, the inner conductor shows a DC short	
Connector	N-female with rubber protection cap	

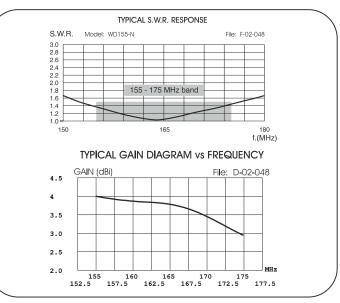
## Mechanical Data

International Parter			
Materials	Anodized 6063-T5 Aluminium,	Anodized 6063-T5 Aluminium, EPDM rubber, thermoplastic UV	
	stabilized, Chromed Brass		
Wind Load @ 150 km/h	77 N		
Wind Resistance	200 Km/h; 124 mi/h		
Wind Surface	0.06 m <sup>2</sup> ; 0.64 ft <sup>2</sup>		
Dimensions W x H (approx.)	730 x 915 mm; 2.4 x 3.0 ft	730 x 835 mm; 2.4 x 2.7 ft	
Turning radius (approx.)	600 mm; 2 ft		
Weight (approx.)	1390 gr; 3 lb		
Operating temperature	-40° C to +60° C		
Mounting Mast	Ø 35 - 52 mr	Ø 35 - 52 mm; 1.4 - 2.0 in	
Boom Diameter / Dipole Diameter	Ø 32 mm; 1.25 in / Ø 24 mm; 0.95 in		



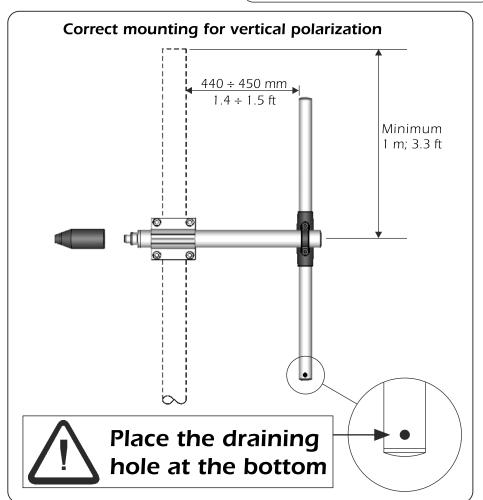








## **MOUNTING INSTRUCTIONS**





Materials: extruded aluminum Hardware: stainless & zinc plated steel Dimensions: 80 x 76 x 65 mm

Weight: 460 gr

Part list		
O.ty	Description	
1	Extruded aluminium bracket	
2	Steel bracket	
2	M8x200 U-bolt	
4	M8 Grower washer	
4	M8 Hexagonal nut	
2	M6x20 Hexagonal head screw	
2	M6 Grower washer	
2	M6 Hexagonal nut	

