

Section 1

BASE STATION ANTENNAS

Updated 14 February 2011

Yagi Y400 Fixed Frequency Series A, B, C, D and E

Frequency
380 – 520 MHz

Bandwidth
See Table



The Yagi Y400 Series of directional base station antennas are also manufactured in “Fixed Frequency” models A, B, C, D and E each tuned for optimum performance across a separate segment in the 380 to 520 MHz range.

Available in either aluminium or stainless steel, the forward gain produced by these 6, 9 and 15 element Yagi's varies from 9 dBd up to 14 dBd. Some A, B, C, D and E models are held in stock. Enquire regarding availability.

The N-Female connector fitted to the cable tail is rated for up to 150 watts input power.

For the 15 element models, a strut kit is highly recommended to properly support the long boom.

A right-angle mast mounting clamp, coaxial feeder cable, connectors and other accessories are all available separately to complete the installation.



Y409DSS factory tuned to cover the full band 450 to 480 MHz

SPECIFICATIONS	Y406	Y409	Y415
Fixed Frequency models available, ADD the letter...		A = 380 to 420 MHz	
		B = 400 to 420 MHz	
		C = 420 to 450 MHz	
		D = 450 to 480 MHz	
		E = 480 to 520 MHz	
Construction	Aluminium, or ADD the letters 'SS' to the order code for fully Stainless Steel models. (e.g. Y415CSS)		
Tuning	All models are tuned in the factory		
Return Loss, VSWR	Better than -15 dB, < 1.5:1 across the band indicated		
Number of Elements	6	9	15
Nominal Gain	9 dBd	11.5 dBd	14 dBd
Polarisation	Mount either Horizontal or Vertical as required		
Maximum Power	150 Watts	150 Watts	150 Watts
Impedance	50 Ohms	50 Ohms	50 Ohms
E-Plane at 3 dB	46°	36°	33°
H-Plane at 3 dB	50°	44°	37°
Front-to-Back Ratio	17 dB	17 dB	17 dB
Cable Tail	All models have a 250 mm RG59 cable tail		
Connector	N-Female connector fitted to the cable tail		
Max Boom Length at low 380 MHz	1.2 metres	1.7 metres	2.1 metres
Longest Element	400 mm	400 mm	400 mm
Weight in Aluminium	0.7 kg	1.0 kg	1.3 kg
Weight in S/Steel	1.6 kg	2.3 kg	3.0 kg
Projected Area	0.06 m ²	0.09 m ²	0.125 m ²
Wind Load 160 kph	7.0 kg	9.0 kg	16 kg
Strut Kit Recommended	Not required	Not required	YS1-48 or YS2-48
Mounting Clamp (Not supplied)	1 x A48 recommended for Aluminium Yagi's. 1 x S48 recommended for Stainless Steel Yagi's.		



The **A48** right-angle clamp has an aluminium plate, galvanised steel vee blocks with stainless steel U bolts, nuts and washers.

The **S48** clamp has all stainless steel components.

These clamps mount a 25 mm square boom Yagi to a round mast between 30 and 50 mm in diameter.

Available to order separately.