



ANTENNA EXPERTS

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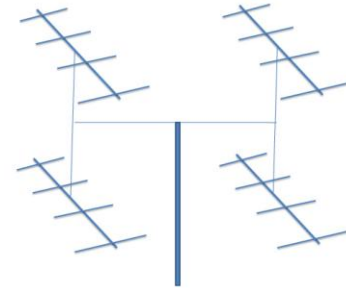
Model AQY-450

330 – 512 MHz.

18 dBi. Gain

UHF QUAD STACKED YAGI ANTENNA

DESIGN FEATURES: Antenna Experts quad stacked yagi antenna design reflects innovative modern antenna construction. The quad stacked yagi antenna uses special feed which eliminates the use of folded dipole. The yagi antenna comes in pre-assembled condition with permanently fixed elements in the support boom. The quad yagi array is supplied with N termination fixed on the driven element. The feed point radiator is enclosed in a Nylon housing designed to protect against severe environmental conditions and minimize pattern distortion. The quad stacked yagi antenna is supplied with a stacking pipe and phasing harness as standard accessories.



CONSTRUCTIONS: Radiating elements and supporting booms of quad yagi antenna have been constructed in high quality 6063T6 ultra corrosion resistant architectural aluminum alloys to prevent corrosion. The unique design of the yagi antenna feed which works as matching device to keep the VSWR low resulting in increased efficiency of the dual yagi antenna. The antenna can be mounted to obtain any horizontal or vertical polarization. Similarly the antenna can be stacked either horizontally, vertically or in a square configuration to control the beam-width in desired plane.

ELECTRICAL SPECIFICATIONS:

Frequency Range	330 -512 MHz.
Gain	18 dBi.
Bandwidth	8 MHz.
Polarization	Vertical or Horizontal
Input Impedance	50 Ohms.
Horizontal Beam-width –Half Power Points	25 Degrees (square configuration)
Vertical beam-width –Half Power Points	20 Degrees (square configuration)
Horizontal Beam-width –Half Power Points	50 Degrees (if all stacked vertically)
Vertical Beam-width –Half Power Points	12 Degrees (if all stacked vertically)
Front to Back Ratio	22 dB.
VSWR	1.5 : 1
RF Power Handling Capacity	250 Watts.
Input Termination	N-Female

MECHANICAL SPECIFICATIONS:

Mounting Hardware	Stainless Steel
Gross Weight	18 Kgs.
Wind Rating	190 Km/Hr.
Overall Length	1.7 Meters
Shipping Length	1.8 Meters
Number of Yagi Booms	4 Nos.
Support Boom-Materials-Cross Section- Outer Diameter	Aluminum -Round Tube-25 mm
Elements - Materials - Cross Section- Outer Diameter	Aluminum -Round Tube-12.7 mm
Maximum Mount Pipe Diameter	52mm (2 Inches)

ENVIRONMENTAL SPECIFICATIONS:

Operating Temperature	(-)30 to +70 Degrees Celsius
Storage Temperature	(-)40 to +80 Degrees Celsius
Humidity	0 to 95% RH

Note: All information contained in the datasheet is subject to change without any prior notice.