

Civil Aviation Yagi Antenna

Model Y112B-130V

This TACO Yagi antenna is specifically designed to blend the benefits of omnidirectional and directional communications for ATC applications. The Y112B-130V provides extended directional range for early communications with high velocity or high volume inbound air traffic while maintaining azimuth coverage for standard inbound and holding pattern traffic within the controlled air space. Included is a fiberglass mast fitted with coupling that center mounts to standard tower masts.

ELECTRICAL

FREQUENCY RANGE - MHz	118 – 137	
GAIN - dBi	10.4	
IMPEDANCE - Ohm	50	
POLARIZATION	Vertical	
BACK TO FRONT RATIO - dB	10.4	
VSWR - °	Min.	1.4
	Max.	1.8
	Typical	1.6
HPBW - °	Horz.	82
	Vert.	55
1 ST SIDELobe SUPPRESSION - dB	6	
STD. CONNECTOR	N	
MAX INPUT POWER - W	280	
OPERATING TEMPERATURE - °C (°F)	-50 to 100 (-58 to 212)	

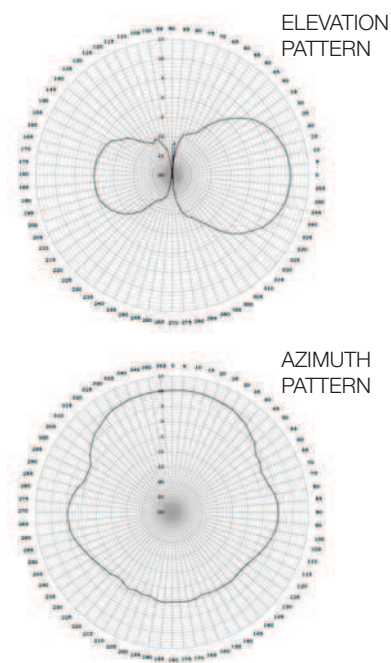
MECHANICAL

NUMBER OF ELEM.	11
OVERALL LENGTH - in (cm)	108 (274.3)
ANTENNA WEIGHT - lbs (kg)	23 (10.4)

MOUNTING

LENGTH & TYPE - in (cm)	52.6 (133.6) In Line Pipe Mount
FIBERGLASS MAST OD - in (cm)	1.66 to 2.875 (42 to 73)
AZIMUTH ADJUSTMENT - °	360

ANTENNA PATTERNS



WIND LOADING

WIND AREA (ft ²)	No Ice	2.92
	1/2" Radial Ice	5.28
WIND LOAD (ft-lbs)	*No Ice	93
	**1/2" Radial Ice	52.79

* Wind Speed = 100 MPH at sea level with 100% Humidity at Seventy Degrees Fahrenheit.
 ** Wind Speed = 50 MPH at sea level with 100% Humidity at Zero Degrees Fahrenheit.

TACO Antenna's ongoing policy of continuing development may result in specification changes to its products.