

World's Leading Manufacturer Of Fibreglass Whip Antennas

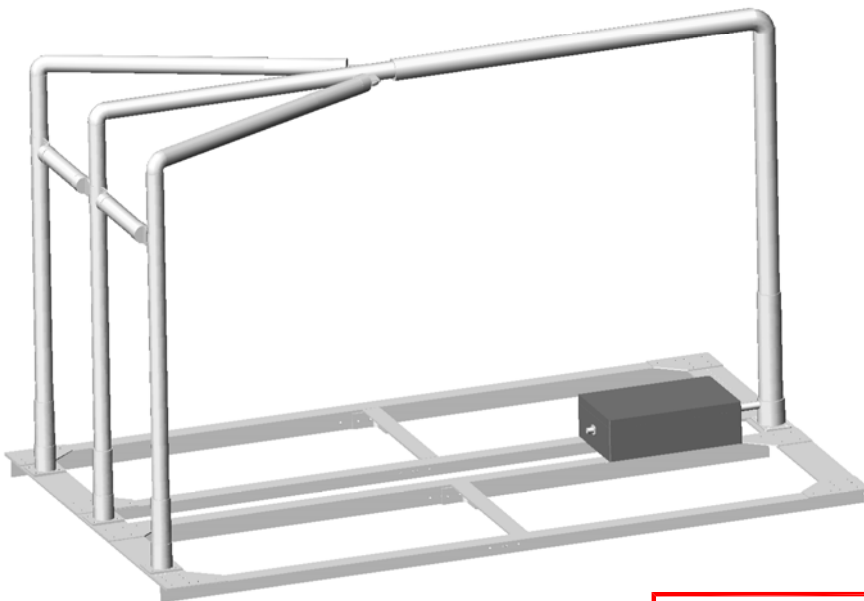


SPECIALISTS FOR HIGH FREQUENCY

HF Compact Fan Antenna System Near Vertical Incidence Skywave VC-NVIS-SL SERIES

THE VALCOM COMPACT FAN ANTENNA IS DESIGNED FOR SHIP AND LAND APPLICATIONS WHERE SPACE MAY BE LIMITED. THE VC-NVIS-SL, WITH ITS FAN LOOP STRUCTURE, IS OPTIMIZED FOR NEAR VERTICAL INCIDENT SKYWAVE (NVIS) TRANSMISSIONS.

THE COMPACT FAN ANTENNA GIVES MAXIMUM RADIATION AT NEAR A 90 DEGREE ANGLE, WHICH CAN BE USED FOR COMMUNICATIONS AT DISTANCES BETWEEN 0 AND 1000 KM (620 MILES). THE VC-NVIS-SL CONSISTS OF AN ALUMINUM MOUNTING/COUNTERPOISE FRAME AND A COMPACT ALUMINUM RADIATING ELEMENT. THE RADIATING ELEMENT CONTAINS AN INTEGRAL LOADING REACTANCE AND LIGHTNING PROTECTION.



THE ANTENNA CAN BE PURCHASED WITH OR WITHOUT AN AUTOMATIC TUNER. THE OPTIONAL TUNER PROVIDES THE CAPABILITY TO TUNE THE ANTENNA BETWEEN 3 MHZ AND 18 MHZ WITH A VSWR OF LESS THAN 2.0:1 IN ONLY 2 TO 3 SECONDS.

FEATURES :

- NEAR VERTICAL INCIDENT SKYWAVE
- SHIPBOARD OR LAND APPLICATION
- LIGHTWEIGHT
- RUGGED FIELD-PROVEN DESIGN
- OPTIONAL AUTO TUNER

QUICK REFERENCE DATA VC-NVIS-SL ANTENNA

ELECTRICAL CHARACTERISTICS OF ANTENNA

FREQUENCY RANGE	3 - 18 MHz
POWER RATING	150 W (PEP), 100 W (CONT)
IMPEDANCE OF ANTENNA	APPROX. 2-1500 OHMS (VARIES WITH FREQUENCY)
RADIATION PATTERN	ELLIPTICAL
RADIATION PATTERN, ELEVATION	NEAR VERTICAL INCIDENT SKYWAVE

MECHANICAL CHARACTERISTICS OF ANTENNA

ASSEMBLED HEIGHT	40 IN (101.6 CM)
GROUND FRAME DIMENSIONS	48 IN (121.9 CM) WIDE X 80 IN (203.2 CM) LONG
WEIGHT	45 LBS (20.4 KG)
WIND LOAD	110 MPH (176 KM/H), WITHOUT ICE
FINISH *	COLOUR GREY

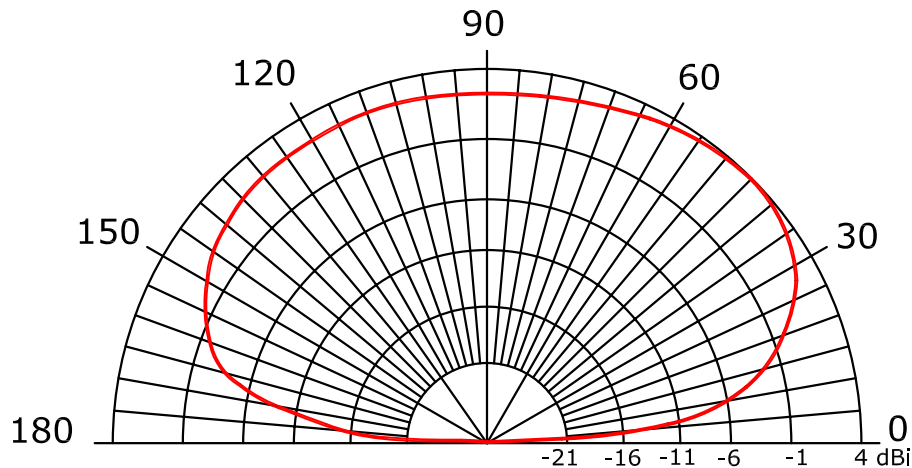
OPTIONAL AUTOMATIC TUNER (ADD '-T' TO THE MODEL#)

FREQUENCY RANGE	3 - 18 MHz
POWER RATING	150 W (PEP), 100 W (CONT)
WEIGHT	6 LBS (2.7 KG)
DIMENSION	9 IN (22.9 CM) W X 14 IN (35.6 CM) L X 3 IN 7.6 CM) H
USAGE TEMPERATURE RANGE	-30°C TO +60°C (-22°F TO +140°F)
INPUT IMPEDANCE	50 OHMS
INPUT CONNECTOR **	N-TYPE FEMALE
TUNING ACCURACY	SWR LESS THAN 2.0:1
POWER SUPPLY REQUIREMENT	13.5 VDC (2.0 AMP MAX)
AUTOMATIC TUNING TIME	APPROX. 2 TO 3 SECONDS

* OTHER COLOR AS REQUESTED

** OTHER CONNECTOR AS REQUESTED

VERTICAL RADIATION PATTERN (AT 3.5 MHz BY EZNEC)
OF VSL3-18 NVIS ANTENNA



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