

HW20V

HW20V Vertical Antenna for 20m band (14MHz)

HW20V by Grazioli antenne is a $1/2\lambda$ vertical antenna of heavy duty constructions for use in the amateur 20m band (14MHz). We have created a unique antenna, highly performing for lovers of the 20m band, the vertical whip is half-wave long (only the radiant part is 10.13m) powered at the base, **HW20V** takes up the operating principle of the younger sister **HW10V** which works in the 10m band, and which has given many satisfactions to our customers. This antenna can be installed both on the ground and on the roof with a pole of only 2 or 3m, it covers the entire 20m band with SWR below 1.5, these characteristics make **HW20V** probably the best antenna available for the 20m band. Relatively light, only 5.4Kg, it can also be used in portable installation (QRP), despite its height it does not require special attention when it is hoisted vertically, the final tuning is carried out comfortably at the base by adjusting the coaxial capacitor placed at the side of the coil. Like all our products is made with the best materials available today, the telescopic tubes are made in Italy on our specifications and precision drawing in AW6063-T66 alloy and machined with latest generation LASER and CNC machines, all the fixing part and clamp are made in AISI-316 stainless steel, the screws and the U-Bolt are in AISI-304 Stainless steel.

(In stationary use, is recommended to guying the antenna with non-conductive cables or rope using the supplied guying clamp)

For more details visit our website

www.grazioliantenne.com



SPECIFICHE - SPECIFICATIONS

Electrical data

Type	$1/2\lambda$ End Fed Vertical Dipole
Frequency range	20m Band full coverage
Impedance	50 Ω unbalanced
Radiation	Omnidirectional
Polarization	Linear vertical
Gain (ground height dependent)	0dBd - 2.15dBi
Bandwidth@ SWR 2:1	>0.8 MHz
SWR@resonance	<1.2:1, typical <1.1:1
Max. Input Power	3000 Watts continuous all mode
Feed system	High-Q LC circuit, DC-Ground
RF connector	UHF female, PTFE insulator, gold plated pin

Mechanical data

Constructions materials	Alloy AW6063-T66 hard drawn tube Fiberglass, Brass, PTFE, all hardware are made of SS AISI304 and AISI316
Wind surface area	0,265m ² / 2,85 ft ²
Wind load @ 130 Km/h/80 Mph	25 Kg / 55 lbs
Wind survival with guy rope (no ice)	130 Km/h / 80 Mph
Overall Antenna height	10,7 m / 35,1 ft
Radiator length	10,13 m / 33,2 ft
Antenna net weight	5,4 Kg / 11,9 lbs
Mounting mast bracket	\varnothing 40-54 mm / \varnothing 1,57" to 2-1/8"
Package dimensions	14x14x145 cm / 5,5"x5,5"x57,1"