

STEALTH 9320

AUTOMATIC TUNING MARINE HF ANTENNA

9320



FEATURES AT A GLANCE

- Continuous 1.6 to 30 MHz coverage
- 125W CW/DATA, 200W PEP SSB
- Highest-in-class radiation efficiency
- 0.35 sec lightning fast automatic tuning
- Sensitive to weakest signals over entire HF band
- Compatible or adaptive to all existing HF transceivers
- Easy for installation on small yachts and workboats
- Designed to withstand sea environment





APPLICATIONS

The 9320 Automatic Tuning Marine HF Antenna is designed for maximum performance in marine coastal and HF telephony bands communication. It is intended for installation on all type of small boats where large HF antennas are space restricted and consistent communication is still mandatory.

RUGGED DESIGN

Stealth 9320 is a marine version of 93-series automatic tuning antenna systems internationally acclaimed for their outstanding performance and reliability. Designed for marine applications, the 9320 is made with premium stainless steel base, epoxy coated fiberglass reinforced nylon enclosure and other marine grade parts and materials. Rugged and waterproof antenna construction is capable of withstanding extreme wind loads and ship vibrations.

FLEXIBLE INTERFACE

The 9320 antenna features flexible interfacing with virtually any HF radio without use of auxiliary antenna tuners. Channel data from the transceiver is obtained via RF-cable using an internal frequency counter or received in digital format via control cable. With the supplied CPS-9300 Antenna Configuration Software and USB cable, the 9320 antenna can easily be programmed via a PC to operate with any analogue or digital HF transceiver including those not equipped with any specific tuner interface.

CONTINUOUS 1.6-30 MHz COVERAGE

Stealth 9320 antenna features continuous frequency coverage over entire 1.6-30MHz HF frequency band permitting maximum utilization of typical marine HF transceiver channel specifications. With outstanding radiation performance and lightning fast tuning, communication from the 9320 antenna resembles operation from a full sized broadband HF-dipole.

LIGHTNING FAST TUNING

The 9320 marine antenna incorporates microprocessor controlled stepper inductor which rapidly (average 0.35sec) tunes the antenna to any frequency stored in the memory bank of up to 200 channels. Intelligent adaptive matching algorithm continuously monitors any significant VSWR variations caused by flexing of other collocated V/UHF antennas and vessel structures in rough weather. The 9320 automatically re-adjusts matching circuit to VSWR 1.3:1 or less at every new tune ensuring HF transceiver operation at full specified RF power.

HIGH RADIATION EFFICIENCY

A built-in wideband receiver amplifier makes the 9320 marine antenna sensitive to even weakest signals over entire frequency range ensuring crystal clear reception and faster connection in ALE mode. With extremely low insertion loss RF circuit, the 9320 is capable for high duty cycle RF power handling required for extended periods of voice, fax and data transmission.

SIMPLE FOR INSTALLATION

The 9320 marine antenna is implemented in compact self-contained form factor optimized for easy and frequent re-installations using simplified cabling system and mounting brackets. It can be installed on metal hulled vessels as well as on small yachts and cabinless workboats made of fiberglass or inflatable rubber in both normal and NVIS configurations.

GENERAL SPECIFICATIONS

Frequency Range	1.6 to 30MHz transmit, 500kHz to 50MHz receive
Power Rating	125W CW/data, 200W PEP SSB (Voice)
VSWR	Typical $\leq 1.3:1$, 50 Ω
Tuning Speed	New CH: 0.16 sec (min.), 1.8 sec (max.) Memory CH: 0.35 sec average
Memory Channels	200 RAM, 200 EEPROM
Tune Power	External 3-30W PEP (3-200W in Smart Tune)
DC Operating Range	10-16VDC, 12V nominal from transceiver
Power Consumption	1.8 A tuning, 85-140mA static
Integral Scan Amplifier	Gain 3 dB, IP ³ ≥ 26 dBm
Connections	UHF socket /MIL-DTL5015 8-pin /Mini-USB
Interface Arrangement	3xTTL lines/ UART/RS-485
Protection	Reverse polarity, short circuit, over voltage, over temperature
Operating Temperature Range	-40°C to +70°C (-40°F to +158°F)
Environmental	Meets MIL-STD-810G, Shock (516.6), Vibration(514.6), IP 68 Immersion 1.2m/1h
Wind Rating	55m/s=125 mph
Moment of Flexure	4.5 kpm
EMC/EMI	Meets MIL-STD-461, IEC/EN 61000
Mounting	M16x45mm stud
Weight and Dimensions	5.2 kg / 11 lbs; 100x100x840(2490)mm / 4x4x33(98)inch
Color	Black / White

Note: Specifications may change without prior notice. Please verify updated specifications on order.

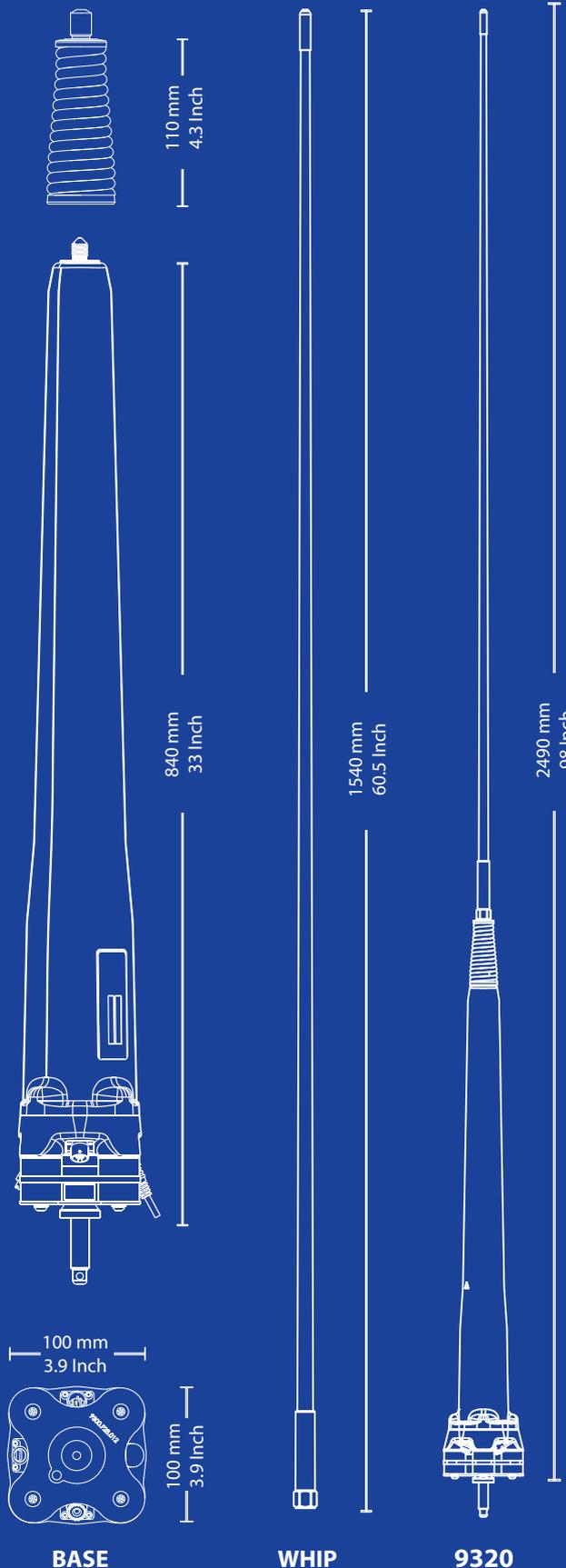
STANDARD PACKAGE

- 9300.B36.020 Antenna Main Assembly
- 9300.B35.005 FG1540B Whip
- 9300.M28.015 CS110B Spring
- 9300.B17.060 SEAC Control Cable, 5.5m*
- 9300.B17.061 RF Coaxial Cable, 6m*
- 9300.B17.005 Default Adaptor Cable 0.5m*
- 9300.C48.001 Installation Kit (Includes CPS9300 CD, USB Cable and Installation Guide)

OPTIONAL ACCESSORIES

- 9300.B35.120 SS1200E Emergency Whip
- 9300.B35.080 FG4200B NVIS Kit

*- Control Cable length options and appropriate transceiver Adaptor Cable must be specified when ordering. Wide range of optional installation accessories is available in separate catalogue.



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