

## RW-N NVIS antenna System

The RadioWavz RW-N antenna is designed to provide high-angle radiation NVIS (near vertical incidence skywave) to permit short-range skywave propagation over communication circuits varying from 0 to 300 miles. The RW-N may be used with Base or tactical hf radios. The frequency range of the antenna is 2.0 to 30.0 MHz and maximum rf power capacity is 1000 watts pep, or average.

### **Electrical**

**Frequency Range :** 2 to 30 MHz with antenna coupler

**RF Power Capacity:** 1000 Watts

**Input Impedance:** Compatible with SGC Smart Tuner/ Antenna Couplers

**Radiation Pattern:** Azimuth: omni directional Elevation: see radiation patterns below

**Polarization** Horizontal Configured with no vertical radiator. Vertical if used with Vertical radiator component.

**VSWR:** In accordance with SGC Antenna Couplers

**Gain:** See radiation patterns below

### **Environmental**

**Temperature Operating:**  $-40^{\circ}$  to  $+55^{\circ}$  C ( $-40^{\circ}$  to  $+131^{\circ}$  F)

**Storage:**  $-60^{\circ}$  to  $+70^{\circ}$  C ( $-76^{\circ}$  to  $+158^{\circ}$  F)

**Wind** 85 mph with no ice

### **Mechanical**

**RF Connector:** Side feed with wing nut for direct connection to SGC Smart tuner products.

**Radiator Construction:** 14Ga. 19 strand copper clad steel UV insulated wire.

### **Dimensions**

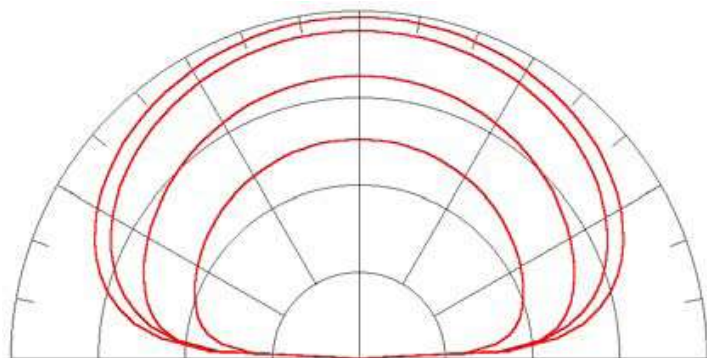
Stowed: 1 bag 26" long x 7" dia.

Deployed: 61 by 61 ft.

**Weight :** 15 lb.

**Height:** 15 ft. or 25ft.

**Installation Time:** 15 min. with 2 people



2, 4, 8, 12 MHz Patterns for the RW-N Antenna