

World's Leading Manufacturer Of Fibreglass Whip Antennas



SPECIALISTS FOR AM BROADCASTING

---

## **55 ft Fibreglass Whip Antenna V33055AM-CL2**

---

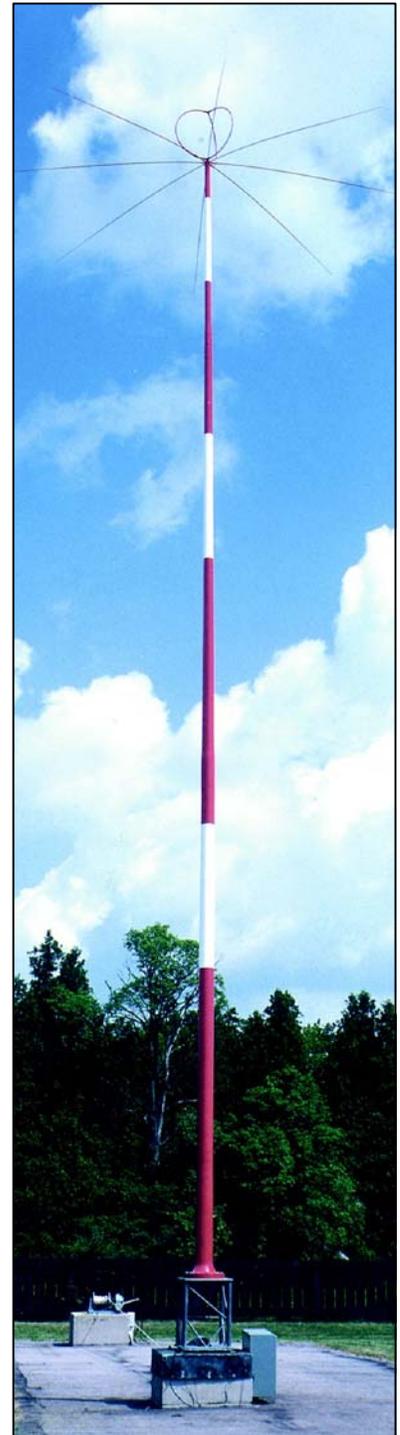
THE VALCOM MODEL V33055AM-CL2 IS A HEAVY DUTY, FIELD-PROVEN, HIGH RELIABILITY, COIL-LOADED 55 FOOT WHIP ANTENNA FOR AM BROADCASTING SOLD THE WORLD OVER SINCE 1985.

THE V33055AM-CL2 IS DESIGNED TO MEET THE FCC REQUIREMENTS FOR AM BROADCAST ANTENNAS FOR CLASS C STATIONS AT OR ABOVE 1400 KHZ AND ANY CLASS B OR D STATIONS OPERATING AT OR ABOVE 1560 KHZ. AS WELL, THE V33055AM-CL2 IS IDEALLY SUITED FOR USE AS AN STA OR BACKUP ANTENNA FOR ALL AM STATIONS.

THE PEDESTAL BASE ENABLES THE ANTENNA TO BE MOUNTED TO ITS FOUNDATION. THE BASE IS MADE WITH A CONTINUATION OF THE SAME HIGH STRENGTH FILAMENT FIBREGLASS USED IN THE ANTENNA. THE RESULT IS AN INTEGRAL BASE INSULATOR WITH EXCEPTIONAL ELECTRICAL PROPERTIES. POWER HANDLING CAPABILITIES ARE IMPROVED WHILE ELIMINATING THE HEAVY CONVENTIONAL BRASS AND PORCELAIN INSULATOR. THE SHAPE TRANSMITS THE BENDING MOMENT EVENLY TO THE BASE MOUNTING BOLTS.

### **FEATURES:**

- **FREQUENCY RANGE: 540 KHZ TO 1700 KHZ**
- **COIL LOADED**
- **HIGH EFFICIENCY**
- **LOW COST INSTALLATION**
- **LOW COST MAINTENANCE**
- **HIGH STRENGTH FILAMENT WOUND**
- **SELF-SUPPORTING ANTENNA**



# V33055AM-CL2

## QUICK REFERENCE DATA

### ELECTRICAL CHARACTERISTICS

RESONANT FREQUENCY ( $f_0$ )	540 - 1700 KHZ (SPECIFIED BY CUST)
POWER RATING	2 KW FOR FREQ OF 540 - 1000 KHZ
	5 KW FOR FREQ OF 1000 - 1700 KHZ
DRY WITHSTANDING VOLTAGE	30 KV
ELECTRICAL LENGTH	DEPENDANT ON $f_0$
POSITION OF LOADING COIL	2ND SECTION
INPUT IMPEDANCE AT $f_0$	DEPENDANT ON $f_0$
Q AT SELF-RESONANCE	DEPENDANT ON $f_0$

### MECHANICAL CHARACTERISTICS

MECHANICAL LENGTH	55 FT (16.8 M)
TOP TERMINATION	VALCOSPHERE
VALCOSPHERE	24 IN (61 CM) DIA
ANTENNA MATERIAL	FILAMENT WOUND EPOXY/FIBREGLASS
JOINTS	BRONZE FERRULE C/W LOCKING PIN AND BANANA PLUG
FINISH	EPOXY POLYAMIDE PAINT
WIND LOADING TEST	150 MPH (241 KPH)
TEMPERATURE	-60°F TO 150°F (-50°C TO 65°C)
WEIGHT	600 LBS (272 KG) MAX

#### NOTES:

1. THE ADVANTAGE OF THE CENTRE LOADING COIL IN SECTION TWO IS TO PROVIDE REDUCED RESONANCE OVER A STRAIGHT VERTICAL WHIP, THEREFORE REDUCING BASE FEED VOLTAGE AND PROVIDING A GREATER POWER HANDLING CAPABILITY.
2. DO NOT USE LEAD BASE PAINT TO TOUCH-UP OR REPAINT ANTENNA.

