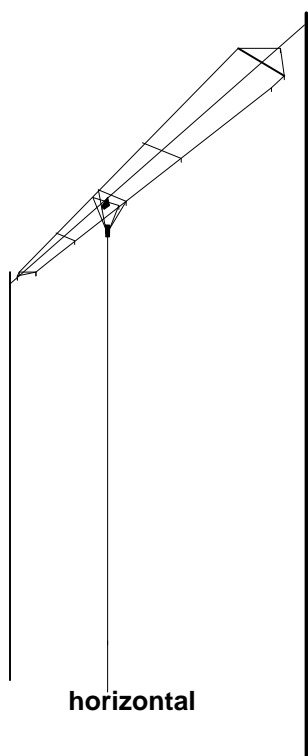


MOONRAKER

Type HF FD 2-30

HF folded dipole broadband base station antennas

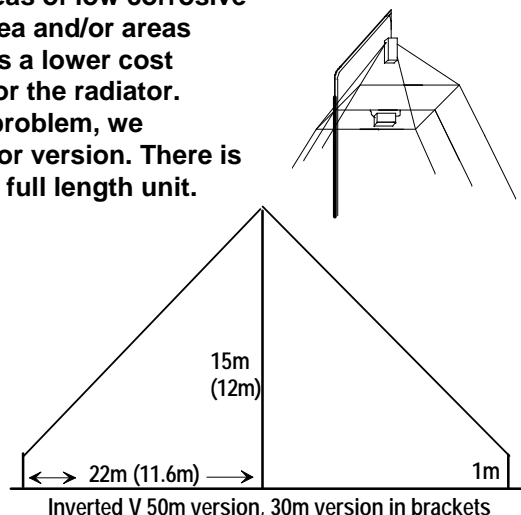
Designed as an efficient HF broadband base station system for short to medium range communications without the need for an antenna coupler.



The HF FD 2-30 antenna systems are easily erected in either a horizontal configuration between two towers or masts (not supplied) or in the space saving *inverted v* configuration from a single tower or mast (Moonraker type 15GM is suitable), with a horizontal support stand-off, gibbet, at the top.

A number of versions are available in both compact and full length. Where the system is to be used in areas of low corrosive atmospheres, that is away from the sea and/or areas subject to industrial pollution, there is a lower cost version using galvanised steel wire for the radiator. Where corrosive atmospheres are a problem, we recommend the stainless steel radiator version. There is also a high power 1kW version of the full length unit.

In all versions the fittings and connections are of stainless steel with high quality insulators. Spreaders are of heavy duty UV stabilised material. Internal antenna components are completely encapsulated for protection from water ingress and insects.



The system provides efficient communications over the MF/HF range from 2.0 to 30 MHz for the full version and 3.0 to 30 MHz for the compact version.

SPECIFICATIONS

Frequency Range	2-30 MHz full version; 3-30 MHz compact version
Impedance	50 Ω (nominal)
VSWR	TYPICALLY <1.8:1 2-16 MHz; 2:1 16-30 MHz (50m full version horizontal), as measured at the input to 30m coaxial feeder
Power Capability	250w PEP, high power 1kW PEP available
Connection	via coaxial cable (not supplied) to SO239 socket on balun box
Antenna Lengths	50m (167ft) full version; 30m (98ft) compact version
Recommended Mast/Tower Height	Mast/tower: 50m full version (12-15m (40-50ft)); 30m compact version (9-12m (30-40ft)); 9m (30ft) minimum; two required for horizontal configuration. Horizontal support gibbet (for inverted V) 800mm (2.6ft) from top of mast.
Mast/Tower Spacing	Horizontal: 50m/15m Mast 52m (170 ft) minimum; 30m/12m Mast 32, (105ft); Inverted V: 50m/15m Mast 44m (144ft); 30m/12m Mast 22m (72ft)
Gain (peak)	better than 5dBi full version
Wind Rating	200 km/h (120 mph), higher ratings available
Packed Weight	8 kg (17.6 lbs) full version
Packed Size	1635x200x150mm (64x8x6 in)

Specifications subject to change 10/03

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