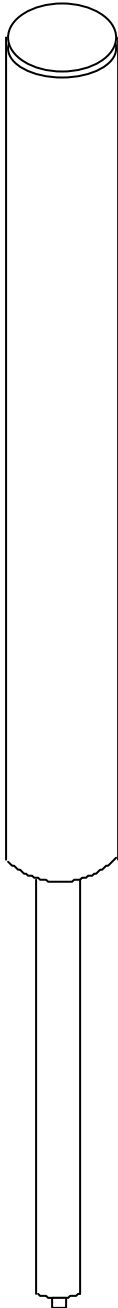


# MOONRAKER

## Type MD/HS

### High Strength Low Maintenance VHF Base Station Antenna



A rugged fully radome enclosed VHF base station antenna for professional use in harsh environments.

The MD/HS antenna was developed in response to user requests for a very low maintenance omnidirectional VHF base station antenna able to withstand high wind velocities, together with radial ice build up such as on mountain tops and highly corrosive atmospheres with cyclonic winds as in the tropics.

The MD/HS meets these criteria.

The antenna is a derivation of our high performance half wave ground independent Type MD, fully enclosed in a poly vinyl chloride radome with a heavy duty galvanised mounting pole. The radome minimises the affects of precipitation static yet provides a low surface tension to reduce ice build up. All metal parts of at DC earth potential for static discharge with other fittings of nylon and stainless steel.

### Specifications

<b>VHF Band</b>	66-180 MHz
<b>Overall Length</b>	2.07 metres (6.8 ft) approx (frequency dependent)
<b>Mounting Pole Length</b>	812 mm (32 in)
<b>Mounting Pole Diameter</b>	42.5 mm (1.67 in)
<b>Diameter of Radome</b>	69 mm (2.7 in)
<b>Pattern</b>	Omnidirectional, maximum radiation 90° to radiator
<b>Polarisation</b>	Vertical
<b>Frequency Range</b>	Pretuned to any specified frequency in the VHF Bands. Special frequencies (eg aircraft bands) to order.
<b>Bandwidth</b>	7 MHz
<b>VSWR</b>	Better than 1.2:1 at centre frequency
<b>Gain</b>	2.2 dBi
<b>Impedance</b>	50Ω nominal
<b>Power Capability</b>	100 watts; higher powers to order
<b>Connection</b>	Female N Type or UHF S0239 connector permanently fitted into base
<b>Wind Loading</b>	Designed to withstand wind velocities of 230 km/h (143 mph) with no ice and 170 km/h (106.25) with 25mm (1 in) radial ice build up
<b>Mountings</b>	Utilise side clamps directly on to mounting pole. Do not drill mounting tube. Minimum mount spacing 300mm (11.8 in)
<b>Packed Weight</b>	7 kg (15.4 lbs)

Specifications subject to change 1/98

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