



## Q-MAC HF-90 High Power Base Station Package (QM9024)

### **Package Description:**

The Q-MAC HF-90 High Power Base Station Package is an HF SSB radio communication system designed for critically important fixed base station use, such as National or Regional Headquarters. It includes the Q-MAC HF-90 Transceiver, a solid state 500Watt Power Amplifier, and the highly efficient Q-MAC Broadband Multi-wire Dipole Antenna. QM9024 is fully compatible with Q-MAC's optional military grade frequency hopping technology and high speed data modems.



### **Package Includes:**

- Q-MAC HF-90 Transceiver supplied complete with pedestal DTMF microphone, fan option and DC power cable.
- 500 Watt PEP RF power amplifier supplied with cooling fan option and AC power supply.
- Q-MAC Broadband Multi-wire Dipole Antenna. Continuous broadband HF coverage from 2-30MHz, supplied with 50 meters of RG-213 coaxial cable & fittings.
- 10 RU 19" Equipment Rack for mounting of Transceiver, Speakers, Power Supply and RF Amplifier.
- Large efficient speakers incorporating audio mute facility for fixed channel operation.
- Antenna masts are not included but are available as an optional extra.



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**HF-90 Transceiver Overview Specifications:**

Frequency Coverage: 2-30MHz continuous.  
 Number of Channels: 255 programmable channels.  
 Modes of Operation: USB, LSB (J3E), CW, AM (Rx only), FSK.  
 Power Output: 50W PEP (voice), 25W (CW/data) – full power to 12MHz  
 Selcall System: Based on CCIR 493-4 (Australian Standard)  
 Audio Mute: Via external speaker  
 Programming: Via front panel and DTMF mic/handset

Options: Military grade frequency hopping at 5 hops/second over 256kHz hop band (see separate Frequency Hopping brochure).

E-mail and Chat Mode data capable with optional HF modem (see separate data brochure).

Global and channel programming via PC based software system.



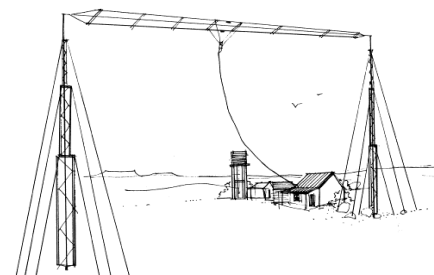
**Power Amplifier Overview Specifications:**

Frequency Coverage: 2-30MHz continuous  
 Band Switching: Fully Automatic  
 Modes of Operation: SSB, CW, AM (50% power)  
 Power Output: 500W PEP (voice), 250W (CW/data) - full power to 12MHz  
 BITE: Microprocessor controlled LED band switch indicator  
 Protection: Fail-safe pass through of HF-90 at 50W PEP



**QM7002a Broadband Antenna:**

Frequency Coverage: 2-30MHz  
 Impedance: 50?  
 Power Input: 1,000 PEP (voice), 500W (data)  
 Input Connector: UHF socket (supplied with 30m cable)



Q-MAC Electronics Pty Ltd has a policy of Continuous Improvement. As a result, specifications published herein are subject to change without notice. Please contact Q-MAC Electronics Pty Ltd or an authorized dealer for current information on all product releases.

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