

# M101-150-8TRM

## LOW LOSS VHF COMBINER

The Telewave M101-150 Low Loss VHF Combiner is a unique, fully self-contained transmitter and receiver combining system. The custom welded 24" steel frame provides a rugged enclosure for all system components. This integrated design allows channels to be added, retuned, or removed in the field at any time, without disrupting other active channels. The 24" x 48" rack handles up to 8 channels and 1 or 2 antennas.

With new narrowband channel assignments, proper filtering is even more critical. 10-inch High-"Q" cavities with dual isolators provide 75 dB isolation between channels, and the optional receiver panel drives multiple receivers from a single antenna. The PM8C2S wattmeter panel allows forward or reverse power monitoring for each channel, or total power to each antenna. The M101-150 series allows system operators to take advantage of new technology,

and enhance the performance of existing systems.

- FEATURES**
- ALL TUNING FROM FRONT
  - 8 TRANSMITTERS INTO ONE ANTENNA
  - INTEGRATED RCVR PANEL
  - SELF-CONTAINED, BUILDING BLOCK CONCEPT
  - LESS THAN 3 dB INSERTION LOSS WITH PROPER FREQUENCY SELECTION
  - ALL CONNECTIONS AT TOP OF RACK
  - 75 dB TX TO TX PROTECTION
  - 130 dB RX INTERMOD PROTECTION WITH RX PNL.
  - RF POWER MONITORING FOR ALL CHANNELS AND ANTENNA
  - REMOTE TX KEYING
  - FIELD TUNABLE



SPECIFICATIONS	
Frequency range	148-174 MHz
Channels	1-8 channels into 1 or 2 antennas
Channel separation (min)	105 KHz
Input power (std. / opt.)	100 / 150 watts per channel
Impedance / Input VSWR (typ.)	50 ohms / 1.25:1
Insertion loss per ch. (typ.)	3.0 dB - 5 ch. at 250 KHz spacing 3.8 dB - 5 ch. at 150 KHz spacing
TX-to-TX isolation (typ.)	75 dB
Antenna to TX isolation (typ.)	70 dB
2nd harmonic suppression (typ.)	90 dB
Cavity size	10" diameter / 1/4 wave
Operating temperature	-30°C to +60°C
Mounting / Connectors	24" rack mount / N Female
Rack dimensions (HWD) in. (cm)	48x24x31 (122 x 61 x 79)
Weight lb. (kg)	250 (113.5)