



CATALOG NUMBER

240-102-16

**FREQUENCY RANGE**

Continuous Coverage  
1.7 to 30 Megacycles

**INPUT POWER**

180 Watts CW  
135 Watts Phone

Certified To F.C.D.A.\*  
Qualifies For  
Matching Funds

Push-To-Talk . . . .  
Modulation Limiting System



The Viking II-CDC is a "general coverage" communications transmitter, engineered to meet rigid specification and performance requirements. Many foreign governments, industrial and business activities are utilizing the Viking II CDC "general coverage" transmitter for maintaining reliable communication under extremely adverse environmental conditions

**FINAL AMPLIFIER** — The final amplifier uses two type 6146 tubes in parallel working into an efficient pi-network tank circuit which will handle 50 to 600 ohm resistive antenna loads and is capable of tuning out large amounts of reactance. Provides up to 30 db of second harmonic attenuation and reduces higher order harmonic energy by an even greater factor.

**AUDIO SYSTEM** — The Viking II-CDC is equipped with a high gain audio system for use with high impedance crystal or dynamic microphones, and features push-to-talk control. More than 6 db of fast-acting compression is provided by the modulation limiting system . . . and in addition, a high-level diode selenium limiter insures positive limiting of the occasional small peaks passed by the low-level control system.

**TVI† SUPPRESSION** — Completely TVI suppressed, the Viking II-CDC cabinet is electrically sealed with flexible contact strip. Special shields are provided for the dial aperture and meter. Primary power line, antenna relay terminals, VFO receptacle, key jack and microphone connector have "L" type filters. Johnson low-pass filter Catalog No. 250-20 required for FCDA applications.

TUBE COMPLEMENT		
POWER SUPPLY	AUDIO	RADIO FREQUENCY
6AQ5 Clamper-Screen Voltage Regulator 6AL5 Bias Rectifier 5V4G Low Voltage Rectifier 5R4GY (2) High Voltage Rectifier	6AU6 Speech Amplifier 6AU6 Audio Driver 6J6 Audio Limiter 807 (2) Modulator	6AU6 Oscillator 6AQ5 Buffer/Doubler 6146 (2) Power Amplifier

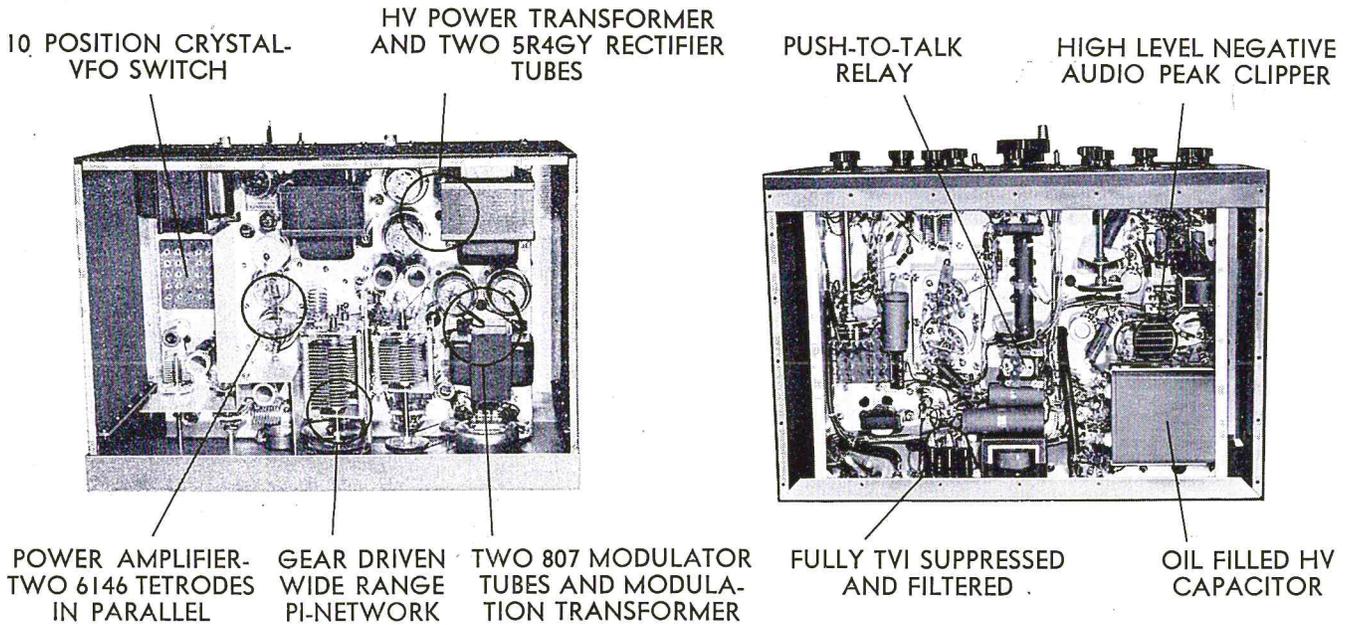
\*Federal Civil Defense Administration.

†Television Interference.



**E. F. Johnson Company**

W A S E C A • M I N N E S O T A



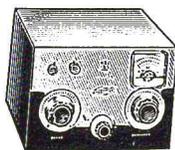
### MANUFACTURER'S CERTIFICATION

The E. F. Johnson Company hereby certifies and warrants in accordance with Section 1001 of Title 18, U. S. Code, that the Viking II-CDC, Catalog No. 240-102-16/FCDA Item T-32, meets the minimum requirements of the applicable Federal Civil Defense Administration Specifications as set forth in FCDA Specifications Manual M6-1. This certification and warranty is made with the knowledge that the States and their political subdivisions will rely upon it in awarding contracts for communications equipment and that the United States of America, acting through the Federal Civil Defense Administration, will rely upon it in making financial contributions to the States and their political subdivisions for the purpose of defraying a portion of the cost of such contracts.

This certification pertaining to equipment manufactured by the E. F. Johnson Company is valid only for factory wired and tested units and for crystal controlled operation. Requires use of Johnson Low Pass Filter, Part No. 250-20. At transmitting frequencies above 7 megacycles the use of a Johnson 275 watt Matchbox Antenna Coupler, Part No. 250-23 or 250-23-3 (with Directional Coupler and Indicator) is required.

Section 1001 of Title 18, U. S. Code, provides "that any person who knowingly makes a false or fraudulent entry or statement in this certification shall be fined not more than \$10,000 or imprisoned not more than five years or both."

VIKING II-CDC TRANSMITTER  
Wired and Tested - with Tubes  
CATALOG NO. 240-102-16 .....Net **\$430.00**



#### 275 WATT MATCHBOX WITH DIRECTIONAL COUPLER AND BUILT-IN INDICATOR

The Johnson "Matchbox" Antenna Coupler is required for operation above 7 megacycles and specifically for the range from 28 to 30 megacycles to provide necessary attenuation to spurious harmonic energy. Write for Data Sheet No. 708 for detailed specifications and operational data.

CAT. NO. 250-23-3 .....\$86.50

CAT. NO. 250-23—Less Directional Coupler and Indicator .....\$54.95



#### JOHNSON LOW PASS FILTER

The Johnson Low Pass Filter, available as a separate accessory, provides more than 75 db of attenuation to harmonic and spurious frequencies above 54 megacycles with an insertion loss of less than .25 db. Consists of four individually shielded sections capable of handling more than 1000 watts of 100% amplitude modulated RF energy. Cut-off frequency is 45 megacycles with "M" derived end sections adjusted to provide maximum attenuation at 57 megacycles, the center of TV Channel 2.

Cat. No.	Impedance in Ohms	Amateur Net
250-20	52	\$14.95
250-35	72	14.95