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Fig. 1 Model ESP-9 Studio Monitor
Stereophones with E-9 self-energizer.

ESP-9 Electrostatic Stereophones are a new development employing the principle of a currentless, or electrostatic charge on push-pull condenser plates to cause movement of an intervening, light, conductive diaphragm. The diaphragm will move in conformance to the signal energy from an amplifier to produce wide frequency response range with low distortion.

The ESP-9 has a response range of 10 octaves, *the widest ever attained in a headset*. A new cup design promotes virtually linear response to below 20 Hz.

The ESP-9 has a signal handling capacity of 10 volts at 30 Hz with good wave form versus 6 volts for the ESP-6. This is made possible by increasing the size of the coupling transformers by a factor of 4, and mounting them externally to the cup in the E-9 Energizer.

The E-9 Energizer offers the option of self-energizing* for the bias supply, or energizing through the ac line. Choice is made with a selector switch on the front panel. When energized through the ac line, very precise level measurements can be made. Thus the unit is ideal for audiometry and for evaluating the spectral character of very low level noise in equipment like tape mastering machines and recording consoles. In contrast to the ESP-6 and ESP-7, both cups are independently energized; a left cup signal is not required to supply bias to the right cup.

* U.S. Patent No. 3,632,903