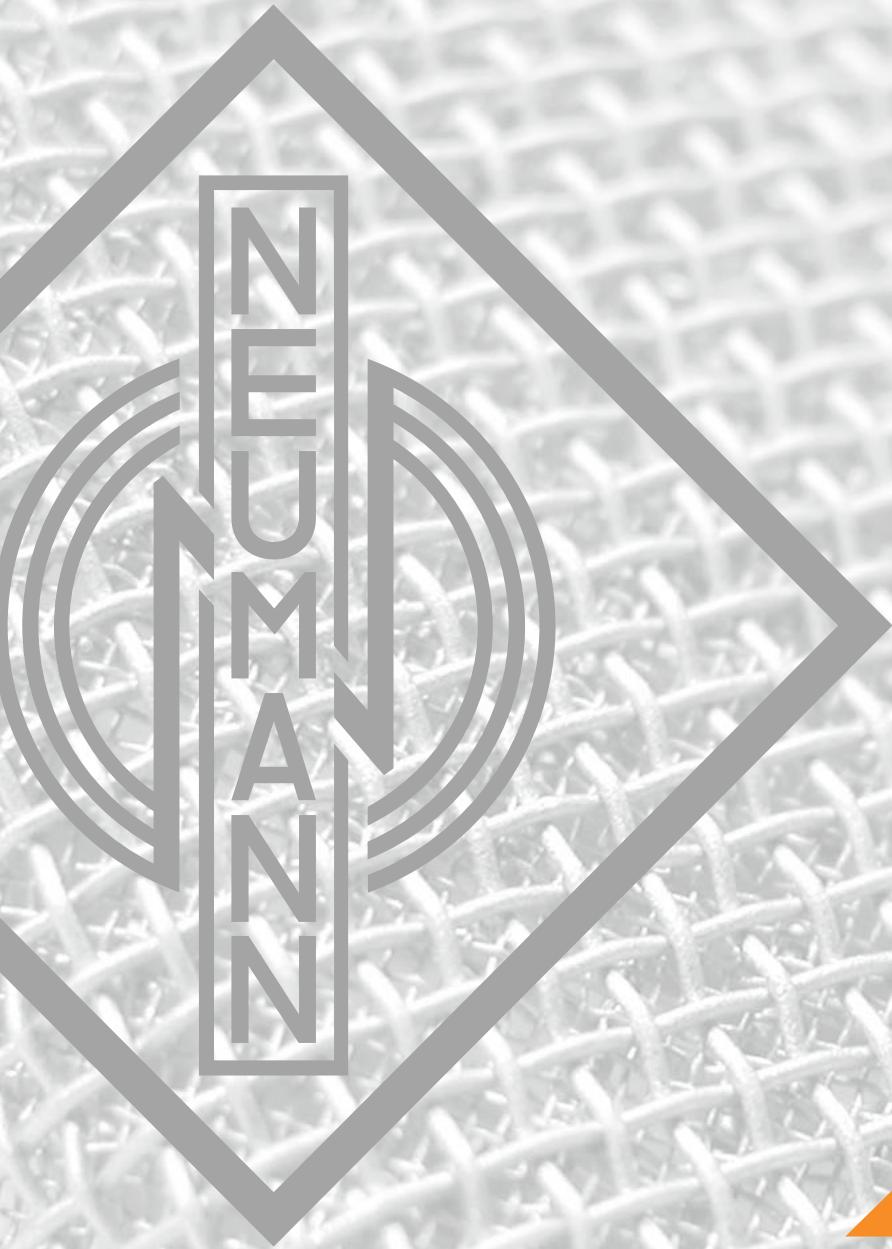


M 147 Tube

► **Tube Microphone**



www.neumann.com

Electrical Features

When compared to other microphones, the impedance converter used in the M 147 Tube is distinguished by its extremely low self-noise level of only 12 dB-A / 24 dB CCIR weighted.

Similar to the recently introduced M 149 Tube, the new M 147 Tube combines a specifically selected vacuum tube (triode) with modern circuitry. This technique takes full advantage of the special transfer characteristics of the tube and passes the processed audio signal of the capsule to the microphone output, without any coloration or unwanted side effects.

The tube amplifies the capsule's signal by approximately 10 dB, thus preventing any possible influences from subsequent electronics. The M 147 Tube delivers a high output voltage, and therefore can feed microphone cables up to 300 m length without signal degradation.

The ideal operating conditions (anode current and heater voltage) of the tube are maintained throughout its life expectancy. A sensor lead detects any voltage drop that occurs through the microphone cable and compensates for it in the N 149 A power supply.

The tube warms up gradually using inverse current limiting to guarantee long life.

Operational Stability

Both, the capsule and the entire circuitry are shock mounted to prevent any structure-borne noise.

Because of its wide operating range, the M 147 Tube can reproduce extremely low frequency signals without distortion.

This implies that the microphone may also be sensitive to unwanted LF interference by structure-borne noise, or wind noise. To avoid possible signal degradation, we offer the EA 1 elastic suspension and the WS 87 windscreens as accessories.

During close miking of vocals we recommend using the PS 15 or PS 20 a pop screen. You will find detailed information in our accessory catalog.

Filter

The electronic circuitry of the M 147 Tube mic has a flat frequency response from 20 Hz to well above 20 kHz. Only the attributes of the capsule determine the typical sound characteristics of the microphone.

N 149 A Power Supply

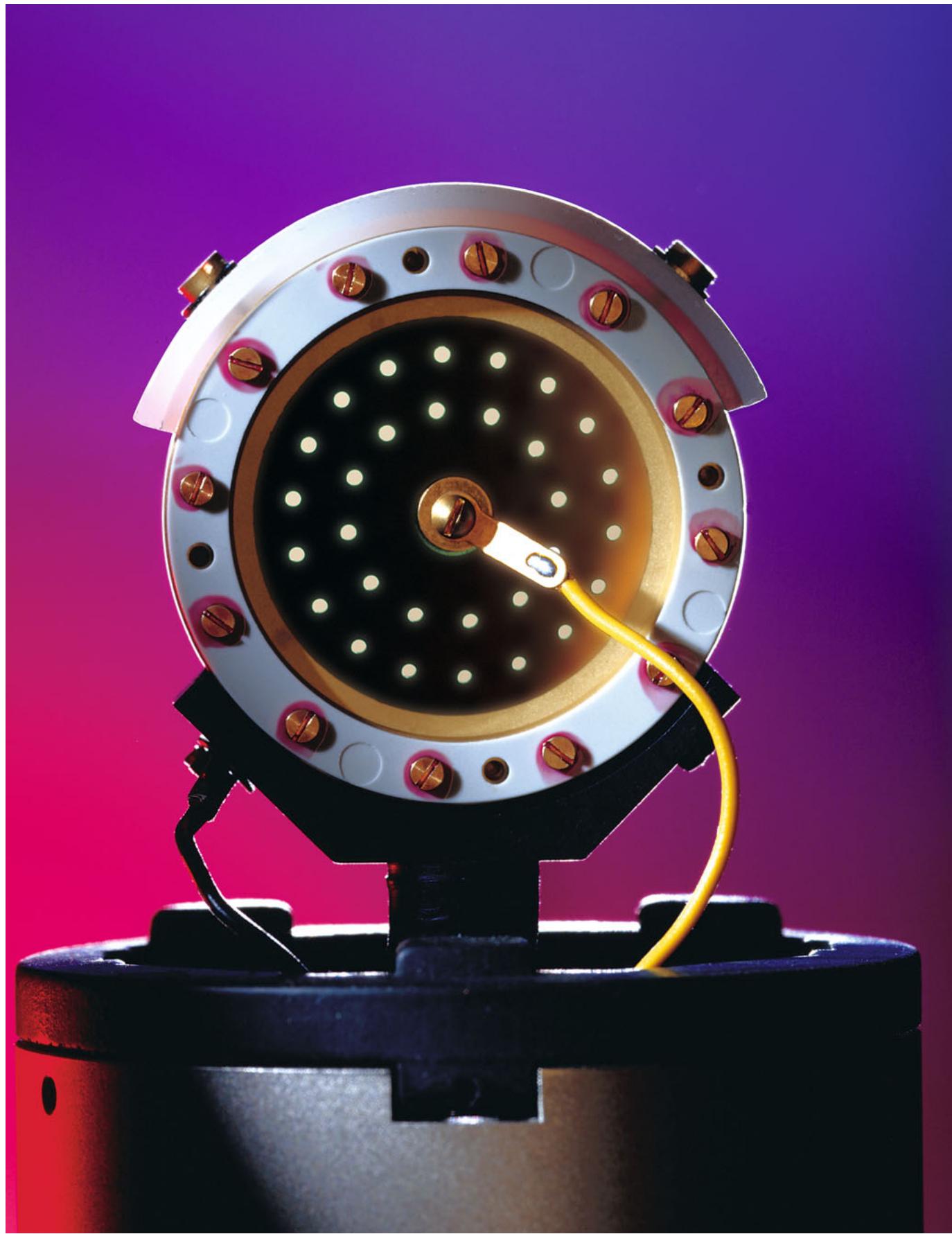
The N 149 A universal power supply works with all mains AC voltages from 100 V to 240 V, 50 or 60 Hz. Mains power is connected through a standard IEC 320 mains socket. The only difference between the three versions of the M 147 Tube set is the power cord supplied. Note: The N 149 V power supply is fully compatible with the M 147 Tube microphone.







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