

Supercardioid Moving Coil Microphone

DESCRIPTION

The M 400's rugged construction features a high energy moving coil transducer which produces high output levels, allowing a wide range of working distances. Its highly directional pickup pattern reduces background noise and feedback in live performance. The clear, well-balanced sound of the M 400 is specifically tailored to enhance vocal 'presence'. A specially designed filter attenuates breath noise and prevents explosive popping in close miking. The built-in humbucking coil provides effective magnetic hum rejection. The model M 400S includes a noise-free lockable On/Off switch.

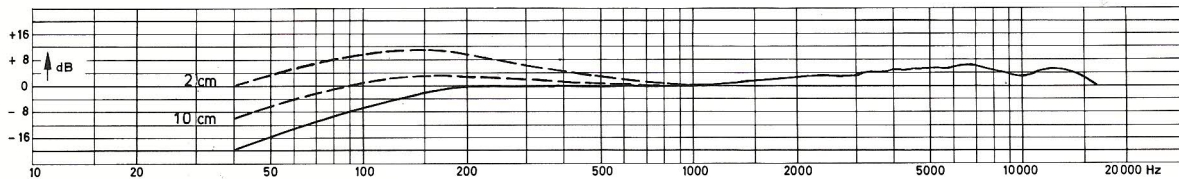
FEATURES

- **Voice-contoured frequency curve with rising high frequency**
- **Low frequency proximity effect and midrange 'presence' boost**
- **Built-in pop filter**
- **Integral humbucking coil**

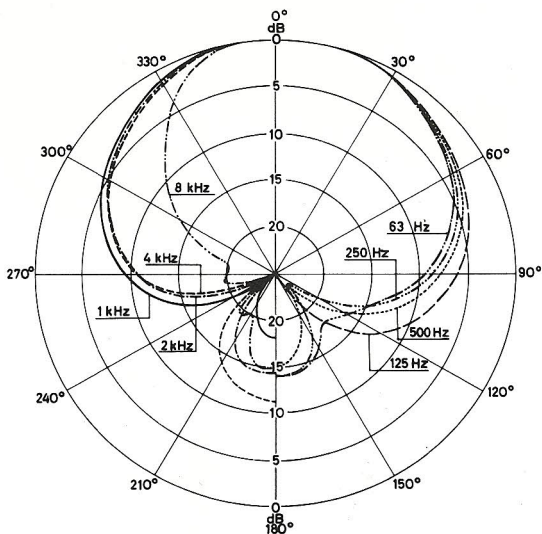
APPLICATIONS

The Beyer M 400's frequency curve is tapered to enhance a variety of contemporary vocal timbres on stage and in the studio. It is also effective as an all-around instrumental mic, in public address systems and for teleconferencing.

FREQUENCY RESPONSE CURVE (± 2.5 dB)



POLAR PATTERN

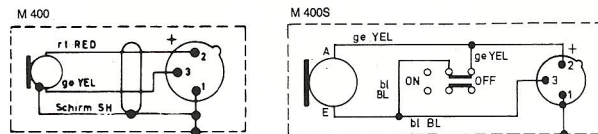


This polar pattern and frequency response curve correspond to typical machine run specifications from a standard M 400.

SPECIFICATIONS

Transducer type:	Dynamic moving coil
Operating principle:	Pressure gradient
Frequency response:	40 - 16,000 Hz
Polar pattern:	Supercardioid
Side attenuation at 135° (1 kHz):	> 20 dB
Open circuit voltage at 1 kHz:	2 mV/Pa
Output level:	-53 dBm (0 dBm \triangle 1 mW/Pa)
EIA Sensitivity rating:	-146 dBm (0 dBm \triangle 1 mW/2x 10 ⁻⁵ Pa)
Magnetic Field Suppression:	> 20 dB @ 50 Hz
Nominal output impedance:	200 ohms
Load impedance:	\geq 1000 ohms
Diaphragm:	Polycarbonate
Case:	Aluminum
Case finish:	Shaft - matte black anodized: Top - chrome mesh
Male connector:	Neutrik 3 pin
Net weight (less cable):	258 grams (9.0 oz.)

WIRING DIAGRAM



Positive pressure produces positive voltage on red (M 400) / yellow (M 400S) cable lead (+)

FURNISHED ACCESSORIES

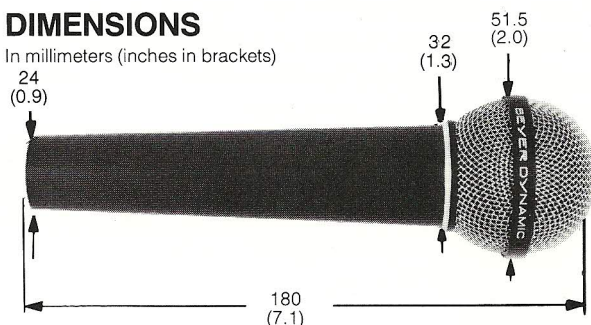
Carrying case: Black leatherette foam lined
Mic clip: MKV 8

OPTIONAL ACCESSORIES

Cable: MVK C-C/20 black 20 ft. two-conductor spiral shield synthetic rubber jacketed with black Neutrik 3 pin female XLR connector on mic end and black Neutrik 3 pin male XLR connector on equipment end. MVK C-C also available in 25 and 50 ft. lengths and with 1/4" two-conductor plug at equipment end.
Mic clip: MKV 6 quick release
Popscreen: PS 260 dark grey polyurethane foam
Windscreen: WS 69, available in black, red, blue, yellow and green

DIMENSIONS

In millimeters (inches in brackets)



ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The microphone shall be a moving coil dynamic type with a frequency range of 40 - 16,000 Hz. The unit shall have a true supercardioid polar characteristic. Attenuation at 135° shall exceed 20 dB. The microphone output shall be -53 dBm when 0 dBm \triangle 1 mW/Pa respectively 2 mV/Pa. EIA sensitivity at 1,000 Hz shall be -146 dBm. The microphone shall have an integral humbucking coil to reduce magnetic hum susceptibility by better than 20 dB at 50 Hz. Electrical impedance shall be 200 ohms. The case shall be made of aluminum with a matte black anodized finish and a chrome mesh top. The dimensions shall be: 7.1 in. (180 mm) overall length, head diameter of 2.0 in. (51.5 mm) and shaft diameter of 0.9/1.3 in. (24/32 mm). The microphone shall be available with a Neutrik 3 pin male connector or equivalent. The Beyer Dynamic model M 400 is specified. The model M 400S shall have a lockable noise-free On/Off magnetic reed switch.