

Velocity Microphone Type 44-BX

Features

- Sensitive ribbon element for faithful reproduction.
Free from cavity or diaphragm resonance and pressure doubling.
- Uniform and smooth reproduction over the entire audio range.
- Response adjustment to provide the best possible frequency characteristics for either vocal or musical pickup.
- Bi-directional "figure eight" type pattern which allows placing of artists on both sides of the microphone and greatly reduces reflection pickup from side walls.
- Unaffected by temperature, humidity or changes in air pressure.
- Ruggedly built for hard usage.
- Shock mounted.
- Attractive in appearance.

Uses

The 44-BX is primarily intended for studio use where a microphone of the highest quality of reproduction is desired. It can be used with practically any audio facilities system and lends itself readily to unusual or difficult studio problems. The 44-BX is also well suited for high quality remote work. The 44-BX is found in almost all of the leading studios in the country and has become a recognized symbol of broadcasting.

Description

The bi-directional pattern of the Type 44-BX Microphone is of the familiar "figure eight" type. Unlike other types of microphones, it has no diaphragm—the moving element being, instead, a thin metallic ribbon so suspended as to be able to vibrate freely between the poles of a permanent magnet. Because of its lightness, the motion of this ribbon corresponds exactly to the velocity of the air particles and the voltage generated in it is, therefore, an exact reproduction of the sound waves which traverse it. Moreover, since it has no diaphragm and is open in construction so that air flows freely through it, the Type 44-BX Velocity Microphone is free from the effects of cavity resonance, diaphragm resonance and pressure doubling, which cause undesirable peaks in the response of all pressure type microphones.

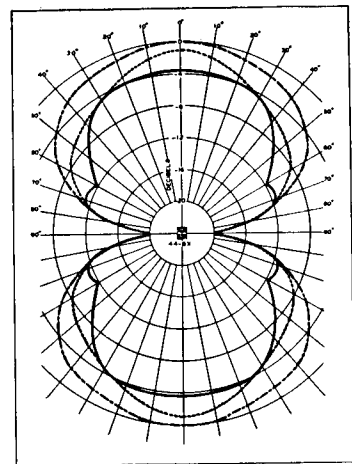
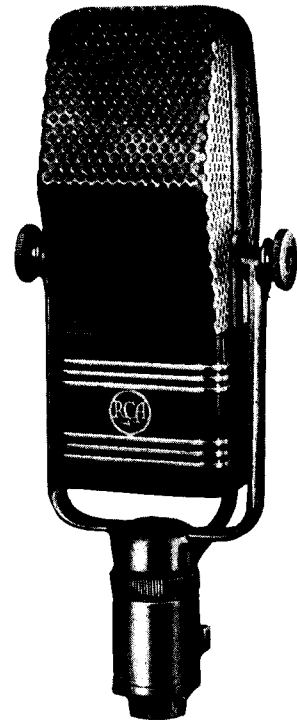
The 44-BX is attractively designed in satin chromium and umber gray to harmonize with practically any modern studio interior. The yoke mounting permits a wide range of tilting angles. The shock mounting reduces undesirable pick-up from floor vibrations, etc.

Specifications

Directional Characteristic	Bi-directional
Output Impedances (tapped transformer)	50/250 ohms
Effective Output Level	-55 dbm*
Hum Pickup Level	-112 dbm**
Frequency Response (see curves)	30-15,000 cycles
Finish	Umber gray and satin chromium
Mounting	1/2" pipe thread
Dimensions, overall	
Height (including cushion mounting)	12"
Width	4 3/4"
Depth	3 3/8"
Weight (unpacked, including mountings)	8 1/2 lbs.
Cable (MI-62 2 conductor, shielded)	30' less plug
Stock Identification	MI-4027-D

* Referred to one milliwatt and a sound pressure of 10 dynes/cm².

** Level referred to a hum field of 1×10^{-3} gauss.



Directional characteristic of a typical 44-BX Velocity Microphone

— 10,000 cps
 - - - 6,000 cps
 - · - 1,000 cps

