GENERAL

The Model 579SB is designed to provide natural and intelligible voice reproduction with freedom from annoying wind and breath noises. This slim, neat-looking microphone is a very rugged unit built to withstand the severest field use. The performance, small size, and ruggedness make the Vocal Sphere an ideal choice for public address, theater-stage sound systems, meeting rooms, recording, and other field and studio applications.

Features:
- Smooth, natural-sounding response from 50 to 14,000 Hz
- Slender design, lightweight, well balanced for hand use
- Built-in wind and "pop" filter to minimize breath and wind noise
- Built-in On-Off switch with lockplate to lock switch in On position
- Rugged construction for completely dependable operation under all conditions
- Versatility—equally useful in the field, stage, or studio—handheld, or on a stand

The Model 579SB Microphone is supplied with an adjustable swivel adapter to fit a 5/8"-27 thread. This swivel permits "quick-disengage" for use as a hand-held microphone.

The Model 579SB is low impedance for connection to microphone inputs rated at 19 to 300 ohms. For use with high-impedance amplifiers, a Shure Model A95 Series Line Matching Transformer is available for coupling the low-impedance line to the amplifier input. Model 579SB-LC is supplied without cable.

SPECIFICATIONS

Type
Dynamic

Model 579SB VOCAL SPHERE
OMNIDIRECTIONAL DYNAMIC MICROPHONE

Frequency Response
50 to 14,000 Hz (see Figure 1)

Polar Pattern
Omnidirectional

Impedance
Microphone rating impedance is 150 ohms (200 ohms actual) for connection to microphone inputs rated at 19 to 300 ohms

Output Level (at 1,000 Hz)
Open circuit voltage ............ - 78.5 dB* (0.13 mV)
Power level .................... - 57.0 dB**

*0 dB = 1 volt per microbar
**0 dB = 1 milliwatt per 10 microbars

Phase
Positive pressure on diaphragm produces positive voltage on pin 2 with respect to pin 3

INTERNAL CONNECTIONS

FIGURE 2

Switch
Built-in On-Off switch with lockplate furnished. Shipped with lockplate installed. To lock switch in On position, place in On position, loosen screw on lockplate, and turn lockplate 180°. Retighten screw

Swivel Adapter
Snap-in positive-action, adjustable from 0° to 90°, with standard 5/8"-27 thread
Case
Champagne beige finish with platinum beige grille

Dimensions
See Figure 3

OVERALL DIMENSIONS
FIGURE 3

Net Weight (less cable)
156 grams (5½ oz)

Packaged Weight
387 grams (13½ oz)

PHASING
To test two microphones and/or their cables for proper phasing, connect them to an amplifier and talk or sing into them while holding them three or four inches apart. The sound from the speakers should be the same when talking into either microphone or directly between them if they are in phase with each other. If the sound drops drastically, or if a dead spot is found when talking between the two microphones, one of them or its cable (low impedance only) is out of phase. All cables and microphones should be tested in this manner to insure that they are in phase with each other.

To change the phase of a low-impedance microphone cable, either use a Shure A15PRS Phase Reverser or interchange the wires connected to pins 2 and 3 of the connector. To change the phase of a microphone, the microphone cartridge leads must be interchanged (see Figure 2). This should be performed by your dealer, the Shure Factory Service Department, or other qualified service personnel.

ARCHITECTS' SPECIFICATIONS
The microphone shall be a moving-coil (dynamic) type with a frequency response of 50 to 14,000 Hz. The unit shall have an omnidirectional polar characteristic. The microphone rating impedance shall be 150 ohms for connection to microphone inputs rated at 19 to 300 ohms. The microphone output shall be –57.0 dB where 0 dB = 1 milliwatt per 10 microbars.

The microphone shall be equipped with a built-in On-Off switch. A swivel adapter, adjustable through 90° from vertical to horizontal and suitable for mounting on a stand having a ¾"-27 thread, shall also be provided. The overall dimensions of the microphone shall be 162 mm (6½ in.) in length and 39.7 mm (1-9/16 in.) in diameter.

The microphone shall be a Shure Model 579SB or equivalent.

FURNISHED ACCESSORY
Swivel Adapter .................................. A57D

OPTIONAL ACCESSORIES
Line Matching Transformer .................. A95 Series
Windscreen ................................... A58WS
Desk Stand ........................................ S37A, S39A
Isolation Mount ................................. A53M, A53HM
Cable (6.1m – 20 ft) ......................... C20H
Cable (6.1m – 20 ft, mic connector only) .. C20D

REPLACEMENT PARTS
Dynamic Cartridge ......................... R50
Screen and Grille Assembly ............. RK221G
Switch Assembly ............................ RK89S