



Electro-Voice®
a gulton company

Model 1824M Midrange Driver

SPECIFICATIONS

Frequency Response:

400-6,000 Hz on suitable horn
(highest recommended crossover
frequency is 3,500 Hz in 3-way
systems)

Nominal Impedance:

8 ohms

Minimum Impedance:

9.5 ohms (on 8HD horn above
800 Hz)

Nominal Efficiency:

20%

Recommended Minimum Crossover

Frequency:

400 Hz (on a suitable horn using a
12 dB/octave or steeper crossover
slope)

Long-Term Average Power Capacity:

60 watts of sine wave input on an
appropriate horn at 1,300 Hz based
on a nominal impedance of 8 ohms

Sound Pressure Level at 1 Meter, 1 Watt into Nominal Impedance, Averaged on 8HD Horn from 800 to 3,500 Hz:

104 dB

Voice Coil Diameter:

51 mm (2 in.)

Voice Coil Construction:

High temperature aluminum wire on
polyamide form

Diaphragm Construction:

Phenolic impregnated cloth

Terminals:

Blade style 6.35 mm (0.25 in.)
wide. Two push-on receptacles for
screw connections supplied

Polarity:

A positive (+) DC voltage applied to
the T1 terminal produces a positive
pressure at the throat of the driver

Magnet:

Ceramic, 650 g (23 oz)

Horn Throat Diameter:

22.2 mm (0.875 in.)

Horn Mounting Method:

1-3/8 x 18 threaded mount

Optional Accessories:

ADH-1 Adapter (for mounting driver
to flanged horns with 1.3 in. rear
openings)

ADH-2 Adapter (for mounting driver
to flanged horns with 1 in. rear
openings)

Size:

132 mm (5.2 in.) diameter
79.5 mm (3.13 in.) overall depth

Net Weight:

2.9 kg (6.4 lb)

Shipping Weight:

3.2 kg (7 lb)

DESCRIPTION AND APPLICATIONS

The 1824M midrange compression driver is designed for high efficiency, high output three-way speaker systems for home, commercial and professional entertainment applications. The 1824M can also be used in two-way commercial and entertainment systems where flat frequency response above 3,500 Hz is not required (see "Specifications" section).

The 1-3/8 x 18 mounting threads and 7/8-inch throat opening provide direct connection to the Electro-Voice 8HD, SM120A, and FR150 horns.

Adapters are available to provide connection to various horns designed for flange-mount, bolt-on drivers such as the Electro-Voice HR horn series (see "Installation" section).

CROSSOVER AND LEVEL CONTROL

The Electro-Voice X8 800-Hz crossover and the X36 3,500-Hz crossover are specifically designed for use with the 1824M/8HD combination, in conjunction with other Electro-Voice components such as the SP15A, SP12C, and SP8C cone speakers (when used as woofers) and the T35A or T350 tweeters. Typically, the sensitivity of the 1824M must be reduced to match that of the system woofer. The Electro-Voice AT38 level control is suitable for this purpose.

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INSTALLATION

The 1824M may be directly interfaced with horns equipped with 1-3/8 x 18 threads. To obtain a good driver-to-horn seal, it is prudent to use the rubber gasket supplied with the driver.

The 1824M may also be connected to the Electro-Voice bolt-on HR series horn with 1.3-inch diameter throat openings via the ADH-1 adapter. The Electro-Voice ADH-2 adapter mates the 1824M with bolt-on horns having a 1-inch throat diameter.

Connection may be made to the driver by means of appropriate push-on connectors. A set of special push-on accessories with screw type terminals is provided.

WARRANTY (Limited)

Electro-Voice High Fidelity Speakers and Accessories are guaranteed for five years from date of original purchase against malfunction due to defects in workmanship and materials. If such malfunction occurs, unit will be repaired or replaced (at our option) without charge for materials or labor, delivered prepaid to the proper Electro-Voice service facility. Unit will be returned prepaid. Warranty does not cover finish or appearance items or malfunction due to abuse or operation at other than specified conditions. Repair by other than Electro-Voice or its authorized service agencies will void this warranty.

For correct shipping address, instructions on return of Electro-Voice products for repair, and locations of authorized service agencies, please write: Service Department, Electro-Voice, Inc., 600 Cecil Street Buchanan, Michigan 49107 (Phone: 616/695-6831) or Electro-Voice West, 8234 Doe Avenue, Visalia, California 93277 (Phone: 209/625-1330,-1).

Electro-Voice also maintains complete facilities for non-warranty service of E-V products.

Specifications subject to change without notice.

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