

Flange-Mounted Reentrant Horn Loudspeaker



Model FMH15T

Description

The Bogen FMH15T is a flange-mounted, high intelligibility, reentrant type loudspeaker. Its sturdy, weatherproof, vandal-resistant, all-metal construction is ideal for indoor and outdoor use in industrial plants, warehouses, schools, construction sites, transportation terminals, and recreational areas.

The Model FMH15T has a built-in, rotary impedance selector switch for matching the speaker power

requirements to a 70V or 25V constant-voltage line. Screw terminals make installation fast and easy.

Accessory flush- or surface-mount enclosures, heavy-duty cast aluminum grille and adapter ring are available to complete the installation of this unique speaker. Field maintenance is accomplished using a self-aligning, field replaceable diaphragm.

Features

- Excellent voice intelligibility and efficiency
- Flange-mounted, reentrant type loudspeaker
- Weatherproof design for indoor or outdoor use
- Vandal-resistant, for applications in hostile environments
- All-metal construction with black enamel finish
- 15 watts max. @ 70V or 25V
- Weather-sealed variable-tap impedance selector switch
- Power levels are: 15, 7.5, 3.6, 1.8, or 0.9 watts for 70V systems and 15, 7.0, 1.8, 0.9, 0.5, 0.25, or 0.125 watts for 25V systems
- Screw terminals for fast and easy installation
- Self-aligning, field replaceable diaphragm for easy field maintenance
- Select flush (BBFM6) or surface (BBSM6) mount enclosure for installation (each sold separately)
- Heavy-duty cast aluminum grille (SGHD8) and adapter ring (FMHAR8) for installation (each sold separately)

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Part No. 54-8023-28C 0811

Technical Specifications

Power Rating (RMS):	15 watts continuous
Frequency Response:	475 Hz to 14 kHz
Impedance:	70/25 volts
Power Taps:	70V: 15, 7.5, 3.6, 1.8, or 0.9 watts 25V: 15, 7.0, 1.8, 0.9, 0.5, 0.25, or 0.125 watts
Sound Pressure Level:	122 dB @ 1m on axis @ 15 watts (avg 400 Hz - 3 kHz) 111 dB @ 1m on axis @ 1 watt (avg 400 Hz - 3 kHz)
Dispersion:	95°
Sensitivity:	111 dB
Controls:	Tap selector switch
Connections:	Screw terminals
Dimensions:	Flange dia.: 6-7/8" Body dia.: 5-3/8" Depth: 5-1/4" Mounting hole pattern: dia.: 6-1/8" Mounting hole spacing: 45° from adjacent hole
Shipping Weight:	4 lb.
Finish:	Black enamel

Architect and Engineer Specifications

The loudspeaker shall be a Bogen Model FMH15T, flange-mount, reentrant type horn loudspeaker. The frequency response shall be 475 Hz to 14 kHz. Rated power output shall be 15 watts, RMS continuous when driven by a 70V or 25V amplifier system. Dispersion shall be 95°. Sound pressure level, measured 1 meter on axis with 15-watt input shall be at least 122 dBspl and 111 dBspl with a 1-watt input.

The unit shall incorporate a seven-position weather-sealed switch, to allow matching the loudspeaker to a 70V or 25V constant-voltage line. Power handling capacity shall be adjustable at 15, 7.5, 3.6, 1.8, or 0.9 watts for 70V systems and 15, 7.0, 1.8, 0.9, 0.5, 0.25, or 0.125 watts for 25V systems. The loudspeaker shall be

of weatherproof, vandal-resistant, all-metal construction. The loudspeaker shall include a self-aligning, field-replaceable diaphragm. Screw terminals shall be provided for connection to the audio line and a strain relief for the audio line will be provided.

Accessory flush- or surface-mount enclosures, a heavy-duty cast aluminum grille, and an adapter ring shall be available separately to complete installation of the speaker.

The speaker shall have a black enamel finish. Its flange dimensions shall be 6-7/8" diameter and its body diameter shall be 5-5/8" with a depth of 5-1/4". Shipping weight shall be 4 lb.

Components



BBSM6



BBFM6



SGHD8



FMHAR8

BBSM6 Surface-Mount Enclosure: Off-white, heavy-gauge steel with single knock-out on back. 11" W x 11" H x 6" D.

BBFM6 Flush-Mount Enclosure: Black, heavy-gauge steel, with Wiremold® knock-outs on each side. 9-7/8" W x 9-7/8" H x 6" D.

SGHD8 Grille: Heavy-duty, square, off-white, cast aluminum grille with finely perforated mesh insert. For use with BBSM6 or BBFM6. 11" W x 11" H x 1/2" D (approx.)

FMHAR8 Adapter Ring: Fits FMH15T to 8" speaker opening of SGHD8 grille.

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