

731C HEAVY-DUTY COMPRESSION DRIVER



DESCRIPTION

The ALTEC 731C High Compression Driver is designed for heavy-duty, high-power public address installations in which clear, penetrating coverage and maximum sound pressure levels are a requisite.

The rugged new driver features a one-inch throat, a weather-proofed, hinged Cylolac rear housing for quick and easy access and connection into sound systems, and a field-replaceable, plug-in voice coil assembly. Connections are included for 25V and 70V lines in distributed systems; a screw-driver operated rotary switch allows selection of any of six power levels. A one-half-inch threaded gland nut is provided for watertight cable entrance. (Note: For conduit installation, a one-half-inch conduit fitting may be substituted for the gland nut.)

Built for ruggedness, long life and reliability under even extreme operating conditions, the 731C employs a cotton-base, rim-centered, molded phenolic diaphragm, two-inch diameter voice coil and ferrite magnet.

All metal parts of the mechanical structure and voice coil/diaphragm assembly are tropicalized and thus impervious to high humidity and fungus. The 731C's exterior finish is a tough, baked-on acrylic paint for maximum resistance to corrosion or extremes of environmental conditions. An electro-formed screen is utilized within the one-inch throat to prevent the entrance of foreign particles which are potentially damaging to the diaphragm.

Ideal for both indoor and outdoor applications, the 731C is an excellent choice for any installation requiring rugged, high-power drivers.

SPECIFICATIONS

- Throat Size:** 1.0 inch (2.54 cm)
- Power Rating:** 60 watts, based on continuous operation with pink noise, band limited 500 Hz to 4 kHz.
- Frequency Response:** 300 Hz to 4 kHz ± 6 dB mounted on an MR42B horn using a 21216 adapter.
- 500 Hz to 4 kHz ± 6 dB mounted on an MR994A horn.

Pressure Sensitivity in dB-SPL re: 20 μ PA.

INPUT POWER ⁽¹⁾	DISTANCE ⁽²⁾	HORN	
		MR994A	MR42B
1 watt	1 meter	110 dB	116 dB
60 watts	1 meter	127 dB	134 dB

- (1) Pink noise, band limited from 500 Hz to 3 kHz.
 (2) Measurement distance referred to mouth of horn.

25/70 Volt Transformer

- Taps:** 60/30/15/7.5/3.75/1.88 watts.
25 volt line impedance: 10/21/42/83/167/332 ohms.
70 volt line impedance: 83/167/333/667/1,300/2,700 ohms.

Voice Coil

- Diameter:** 2 inches (5.08 cm)
Material: Copper Wire.
Impedance: 8 ohms
Replacement Diaphragm: Spare Part No. 456

Magnet

- Material:** Ferrite
Weight: 17 oz (482 gm)

Flux Density:

1.17 Tesla

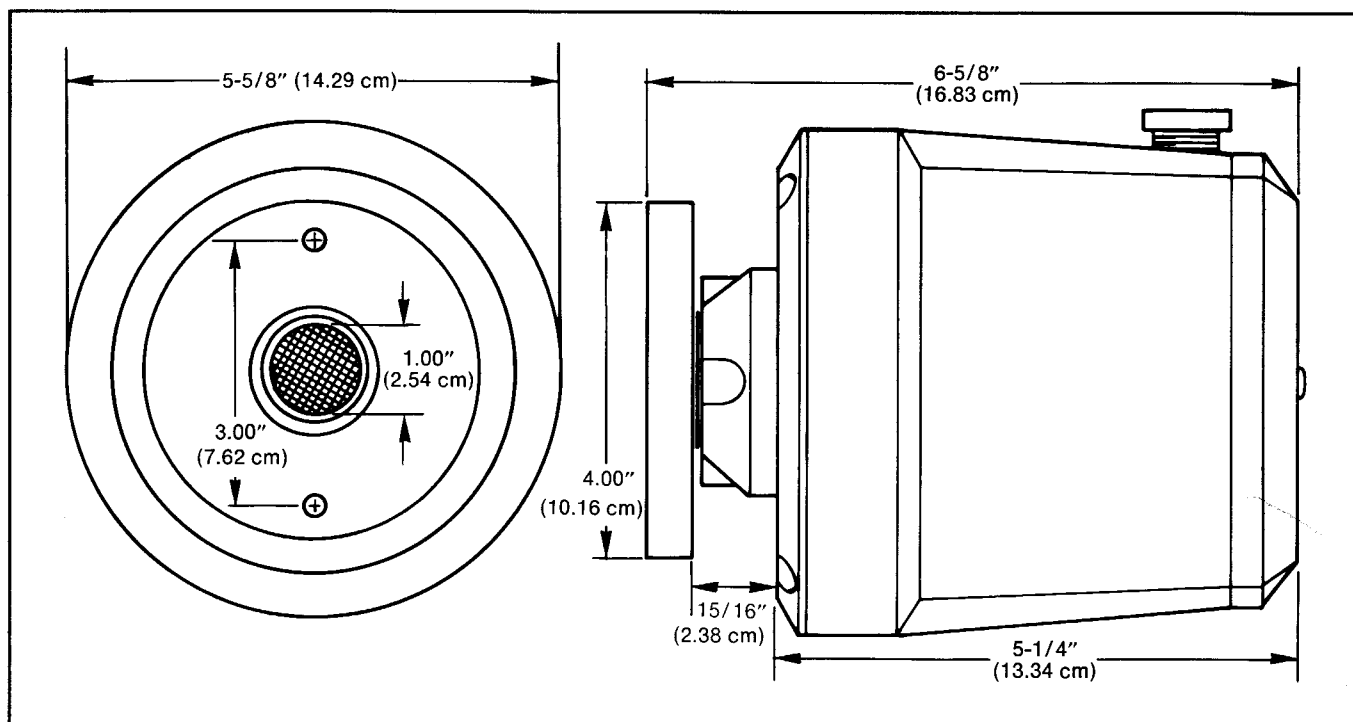
Case:

- Construction:** Die-cast Aluminum.
Dimensions: 5 $\frac{5}{8}$ inch (14.29 cm) diameter.
 6 $\frac{5}{8}$ inch (16.83 cm) Height.
Unit Weight: 8.13 lbs. (3.7 kg)
Finish: Gray Enamel

Mounting Data:

- 2 bolts required.
Bolt Diameter: 1/4 inch (6.4 mm)
Bolt Centers: 3.0 inch (7.62 cm)

DIMENSIONAL INFORMATION



ARCHITECT'S and ENGINEER'S SPECIFICATION

The heavy-duty waterproofed compression driver shall have a one-inch throat, a plug-in voice coil assembly and a hinged Cylolac rear housing cover. The mechanical structure and voice coil/diaphragm shall be tropicalized.

The driver shall meet the following minimum performance and structural criteria: Power rating: 60 watts continuous power measured using pink noise band-limited from 500 Hz to 4 kHz. Frequency response: 300 Hz to 4 kHz, ± 6 dB. Pressure Sensitivity when mounted on an MR42B using a 21216 adapter: 116 dB-SPL, 1 watt/1 meter from mouth using pink noise band limited from 500 to 3 kHz. The unit shall have an integral

transformer providing taps at 60, 30, 15, 7.5, and 1.88 watts for attachment to either 25 volt or 70 volt constant voltage distribution systems.

The voice coil shall be 2" (5.08 cm) in diameter and shall be made of copper wire. The magnet shall be ferrite and shall weight not less than 17 oz (482 gm). The flux density shall be 1.17 Tesla. The case shall be constructed of die-cast aluminum and shall be 5 $\frac{5}{8}$ inch (14.29 cm) in diameter and 6 $\frac{5}{8}$ inch (16.83 cm) high. The overall unit weight shall be 8 lb, 2 oz (3.7 kg) and the unit shall be finished in gray enamel.

The heavy-duty high compression driver shall be the Altec Lansing model 731C.



a MARK IV company

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