

b u l l e t i n

Model
375
High
Frequency
Driver
Number B-1

- over 20,000 gauss
- impeccable transient response
- 4" voice coil
- 5 element annular phasing plug
- over 60 watts continuous power handling without distortion

The Model 375 is a compression driver type loudspeaker with a diaphragm of two mill aluminum dural alloy foil drawn to shape by hydraulic pressure forming a continuous smooth dome structure free from discontinuity in surface shape, localized stress or work hardening which assures freedom from spurious resonances or peaks and dips in the response output of the unit. This diaphragm is 4" in diameter and is activated by an aluminum edge wound ribbon voice coil, rigidly attached thereto. The voice coil also being 4" in diameter. The sound energy produced by this 4" diaphragm is collected and channeled by an internal 5 element annular exponential ring phasing plug to the internal exponential horn throat sleeve. The phasing plug loading factor is 8 to 1. The throat opens to the outside with a diameter of 2". Horns for loading or distributing the sound from this device must also have a throat opening of 2 inches.

Power wise this driver will handle without distortion or mechanical failure 60 continuous watts of single frequency sine wave signal at all frequencies above 100 c.p.s., and its nominal electrical impedance is 16 ohms. From a field usage viewpoint the Model 375 is used by motion picture exhibitors for continuous duty with 80 to 100 watt systems. The field supply for this unit is an Alnico V magnet of over 7 pounds which working through a pure ferrite ductile iron casting and pole piece of ARMCO magnetic iron produces a continuous flux density in the operating region of the voice coil of 21,000 gauss.

The diameter of the unit is 7.0 inches

The length of the unit is 5-1/4 inches

The weight of the unit is 26-1/2 pounds

The finish of all exterior surfaces is chemically etched, zinc plated, cronak protective dip and painted light instrument grey wrinkle baked enamel.

The Items underlined represent features considered unique, exclusive and most important from a performance standpoint.



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