

b u l l e t i n

Model
537-500

Horn & Lens
Assembly

Number B-2

- Index of refraction 1.3
- Sound pressure less than 3 db down at 50°
- Eliminates phase interference and cancellations

This assembly is composed of a cast aluminum horn 12" in length with a circular throat 2" in diameter and tapering exponentially to a circular mouth 8" in diameter. The flange on the throat end is drilled to match the 375 high frequency unit with 4 holes 1/4" diameter on a 4" bolt circle.

To the mouth flange of this horn is fitted a cylindrical cast aluminum lens housing - 13-1/2" in diameter, measured normal to the horn axis, and 3-3/4" long measured along the horn axis.

The index of refraction of this lens is 1.3 and the perforated plate elements have a hyperbolic curvature such that the sound pressure is down less than 3 db in a solid angle of 50° symmetrical with the axis of the horn. By generally accepted practice this would be considered a 70° symmetrical disbursing device.

This lens is broad band and will distribute all frequencies in the audio spectrum over this area. The usual phase interference and cancellation present in all multicellular and flat or distributed source horns has been eliminated. This equipment will provide smooth even distribution at all frequencies.

When used with the 375 high frequency driver this unit will provide flat response and proper loading for a 500 c. p. s. crossover at 12 db per octave.

The distribution from this device is symmetrical around the projected axis of the horn feeding the Koustical lens.



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