

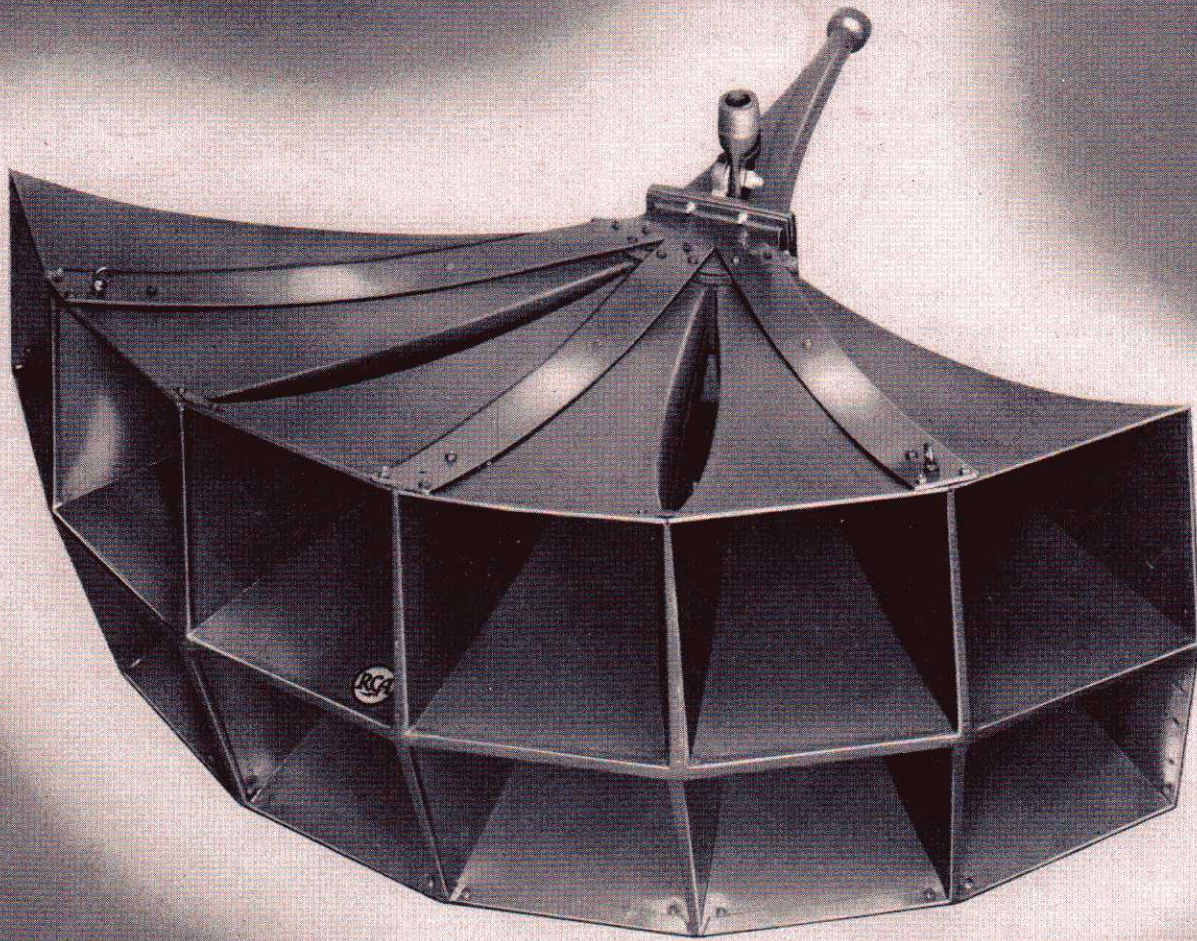


CELLULAR HORNS

MASTER ITEM-6437/8/9

CATALOG

S.4085



FEATURES

- Cast aluminum exponential throat
- Adjustable mounting bracket
- Provisions for suspension mounting
- Light weight, sturdy construction
- Excellent high frequency distribution
- Acoustically treated metal exponential cells

APPLICATIONS

The RCA 4-cell, 8-cell and 12-cell straight axis horns are designed for indoor public address and sound reinforcing work where a wide horizontal angle sound dispersion of uniform volume is desired. These horns are excellent for general indoor sound installations, such as auditoriums, music

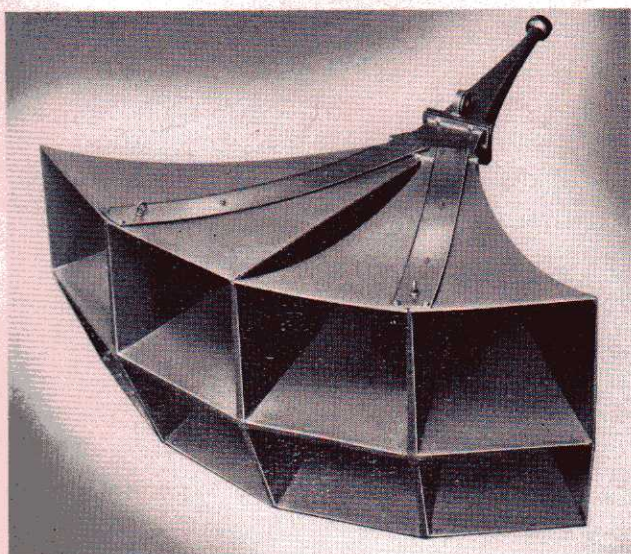
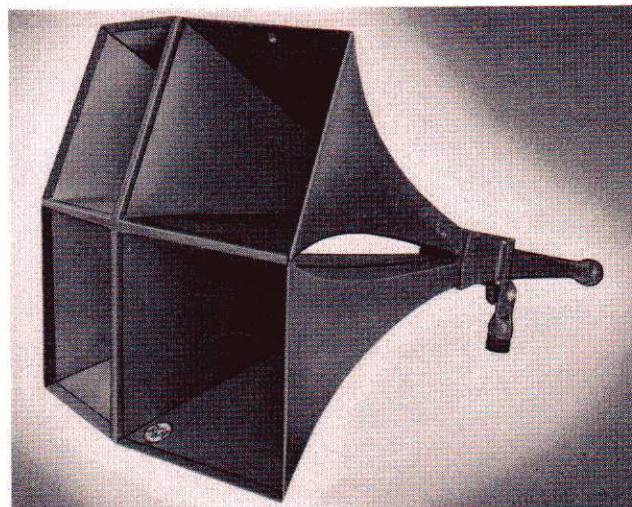
halls, churches, etc. These horns with suitable horn driver perform very well by themselves for speech applications. They are also well adapted to music applications when used with a suitable low frequency cone type speaker and enclosure.

CELLULAR HORNS

DESCRIPTION

The horns consist of four, eight or twelve straight axis horn cells made of sheet metal covered with acoustic material to eliminate any objectionable metallic ring. The cells are bonded together and terminate in a single cast aluminum throat. The initial inside diameter of the throat is $\frac{1}{8}$ of an inch with a $\frac{1}{16}$ -16 thread to take standard RCA horn driver mechanisms.

The horn includes an adjustable mounting bracket, MI-4443-1, which terminates in a male $\frac{1}{4}$ " standard pipe thread. Each of the outside cells has a brass eyelet or fixture eye bolt near the front edge so that the horn can be suspended by cables or chains. When suspension mounting is used the rear section is suspended by the mounting bracket from which the pipe thread section has been removed. Heavy metal reinforcing strips are used on the 8-cell and 12-cell horns to assure rigidity when the horn is suspension mounted. The fixture eye bolts are mounted in this reinforcing strip. The entire assembly is finished in dark umber gray enamel.



SPECIFICATIONS

Distribution Angle.....	See table
Frequency Cut Off Low End.....	175 cycles/sec.
Horn Material.....	Acoustically treated metal
Throat Material.....	Cast aluminum
Thread (mechanism)	$\frac{1}{16}$ "-16
Thread (mounting bracket).....	$\frac{1}{4}$ " pipe thread
Dimensions	See table
Finish.....	Dark umber gray
Weights	See table

Stock Identification:

4-cell Horn	MI-6437
8-cell Horn	MI-6438
12-cell Horn	MI-6439

MI No.	No. of Cells	Vert. Dist.	Hor. Dist.	Height	Width	Length	Weight Unpacked	Weight Packed
6437	4(2x2)	45°	45°	20½"	20½"	40½"	16½ lbs.	21 lbs.
6438	8(2x4)	45°	90°	19"	34"	42"	27½ lbs.	35 lbs.
6439	12(2x6)	45°	135°	16½"	44"	44"	40 lbs.	48 lbs.

Dimensions and Weight include throat—no speaker mechanism.



SOUND PRODUCTS SECTION

RADIO CORPORATION OF AMERICA

Engineering Products Department, Camden, N. J.