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## MR-102

### Professional Horn Loaded Upper Bass Enclosure

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### Features:

\*Smooth response with high output capabilities over the critical vocal mid band, where most existing horn loaded systems are weakest

\*True Exponential Horn flare for Maximum efficiency and bandwidth over the operating range.

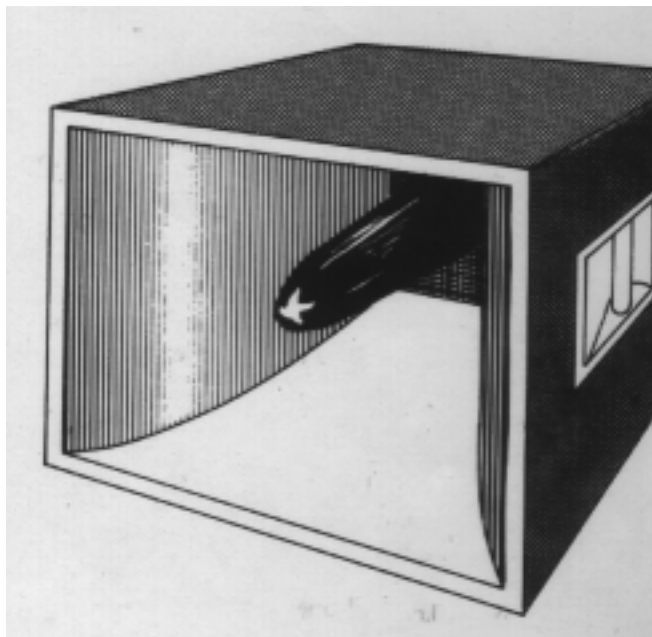
\*EAW's world-famous quality construction using crossgrained laminated birch and urethane foam reinforcing for resonance-free performance at high sound pressure levels.

### Design:

The MR- 102 is designed to answer the need for low distortion, high output performance in the critical vocal mid band. This range, from 400 Hz to 1,500 Hz, typically has the lowest headroom in horn loaded systems. Use of MR102's from 200 Hz to 1200 Hz will enable much lower distortion and an improvement of from 3 to 6 dB output in most typical horn loaded systems. Additionally, the use of mid-bass horn will take considerable stress off the compression driver by raising the crossover frequency. To understand this, if you raise the crossover one octave (i.e. from 600 Hz to 1200 Hz) you require the compression driver diaphragm to move 1/4 as far to provide the same level. This means that for most applications the need to constantly replace diaphragms will be eliminated. The throat distortion induced in the horn will be reduced dramatically as well.

### Discription:

The MR- 102 is an exponential horn with a 175 Hz cut-off frequency designed for critical lower midrange use in large sound reinforcement systems. The MR- 102 makes use of a center displacement plug to maintain an accurate exponential expansion down into the throat region. This plug allows for a proper throat cross section and expansion to maintain flat response over the full range of the horn. Additionally this type of design limits throat size offering exceptionally high efficiency and blocks high frequency spikes from the driver's dust cap above the operating range, thus preventing time/frequency related problems around the crossover region. The high-frequency response is dependent on the driver used with a maximum limit of 1600 Hz (with and EAW LF-300-R driver response is smooth to 1200 Hz).



The MR-102 comes ready for road use with conveniences such as recessed bar handles, steel corners, a perforated steel speaker grill, and Tee-nuts for mounting which are pre-mounted in the back. The construction and finish is designed to withstand the rigours of day in-day out touring use. Numerous concert tours have proven the performance and ruggedness of the MR- 102.

### MR- 102 Specifications:

<b>Frequency Range:</b>	175 Hz to 1200 Hz $\pm$ 3 dB
<b>Sensitivity:</b>	106 dB for 1 w at 1 meter
<b>Flare Rate:</b>	175 Hz
<b>Dispersion:</b>	900 H 400 V
<b>Recommended Crossover</b>	200 Hz and 1200 Hz
<b>Frequency:</b>	
<b>Driver Used For Data:</b>	
<b>Driver Used For Data:</b>	EAW/RCF LF-300-R
<b>Construction:</b>	Cross- Grain- Laminated Birch Urethane Foam Reinforcement Catalyzed Polyurethane Black
<b>Finish:</b>	
<b>Dimensions:</b>	29 3/4"W x 23 3/4"D x 18 3/4"
<b>Weight</b>	90 lbs. unloaded