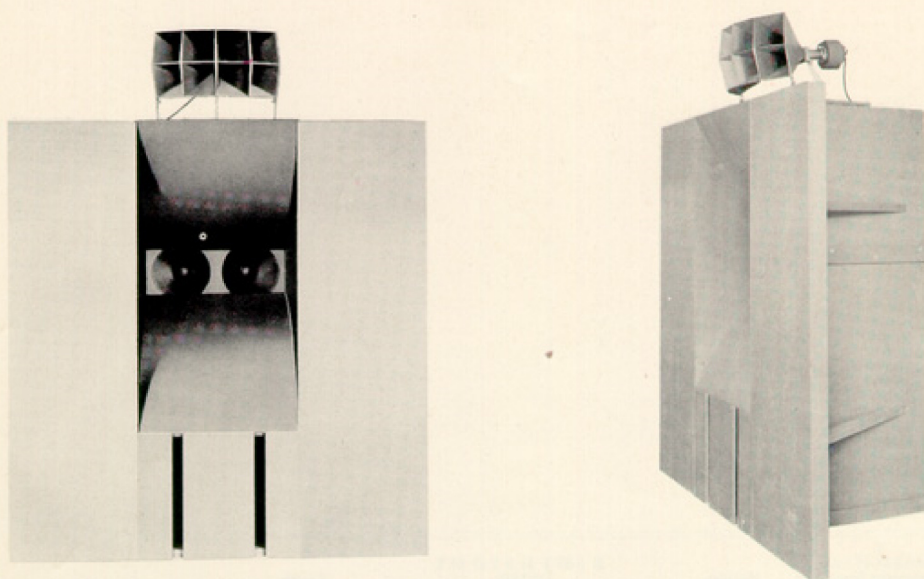


# Low Frequency Horns

**L-F  
HORNS**



210 Horn with speakers installed

**Direct radiating**  
**Rugged construction**  
**True bass reproduction**  
**Efficient bass projection**  
**Wide distribution**

These larger low frequency horns, used in the "Voice of the Theatre" speaker systems in over 12,000 motion picture theatres, auditoriums, and arenas, insure proper loading and performance of the low frequency loudspeakers. They are of heavy construction and are thoroughly braced to prevent vibration. The short exponential expansion provides proper spatial phasing with the high frequency horn and assists in the all important mid-range projection. The horns are front loading and do not employ folds or bends which introduce holes in the frequency response of the system. The back wave of the speaker is radiated at lowest frequencies through a bass reflex type port designed to avoid the boom and false accentuation often associated with public address systems. The heavy construction of the horns permits them to be mounted in the walls and ceilings of auditoriums, or suspended overhead in large arenas. They may be used with either the 803A or 515 loudspeakers. High frequency components should be used in conjunction with these low frequency units for full range two-way systems.



1515 S. Manchester Ave., Anaheim, Calif.

New York, Los Angeles

## SPECIFICATIONS

Horn Model Number (a)	Number of Low Frequency Speakers Per Horn (b)	Height	D I M E N S I O N S		Depth	Weight (d)
			Width (c)	Without Wings		
210	2	84"	80½"	32½"	39½"	560 lbs.
410	4	84"	103"	65"	39½"	890 lbs.
825	1	42"	.....	30"	24"	100 lbs.

## ARCHITECTS AND ENGINEERS SPECIFICATIONS

The low frequency horn shall be of the direct radiating type and shall measure (c), and weigh in the order of (d). It shall consist of a short exponential horn designed to match the phasing of the high frequency horn specified elsewhere. Horn systems that employ folds or bends in the acoustical path, either front or back loaded, will not be acceptable under this specification because of their inherent frequency cancellation.

The horn shall be of heavy plywood at least ¾" stock and shall be fully braced with 2 x 3 and 2 x 4 frames. It shall be designed to mount and properly load (b) 15" low frequency speakers of the type specified elsewhere.

Low frequency horn shall be Altec Lansing Model (a).

Note: Fill in (a), (b), (c), and (d) from specifications.)