

APPLICATION

- For large cinema screen channel application
- Bi-amplified 3-way screen channel loudspeaker

PRODUCT INFORMATION

The CSC723X represents a major advancement in cinema screen channel speaker design. Incorporating many new EAW engineering breakthroughs, the CSC723X is designed to provide optimal coverage in all cinemas, especially “stadium” seating auditoriums, where front-to-back coverage provides a difficult challenge for even the best conventional systems.

The bi-amplified three-way CSC723X features a multicomponent modular design which allows quick installation, with no assembly required on site.

The mid-range and high frequency horns feature an unusual asymmetrical flare design, which provides a narrow pattern at the rear of the room, and a wider pattern at the front of the room. This design minimizes energy radiated at the side walls, while concentrating sound in the seating area. The high frequency horn is coupled to a 2-in exit driver, and also features a controlled collapsing pattern at the very highest frequencies, which compensates for the screen’s effect of widening the dispersion, thus resulting in a constant pattern in a seating area.

The single 10” mid-range cone driver is housed in its own subenclosure and is coupled to EAW’s patented Radial Phase Plug™. The unique design of the Radial Phase Plug™ significantly reduces throat distortion and frequency “time smear”, resulting in noticeably clearer, more natural sounding dialog.

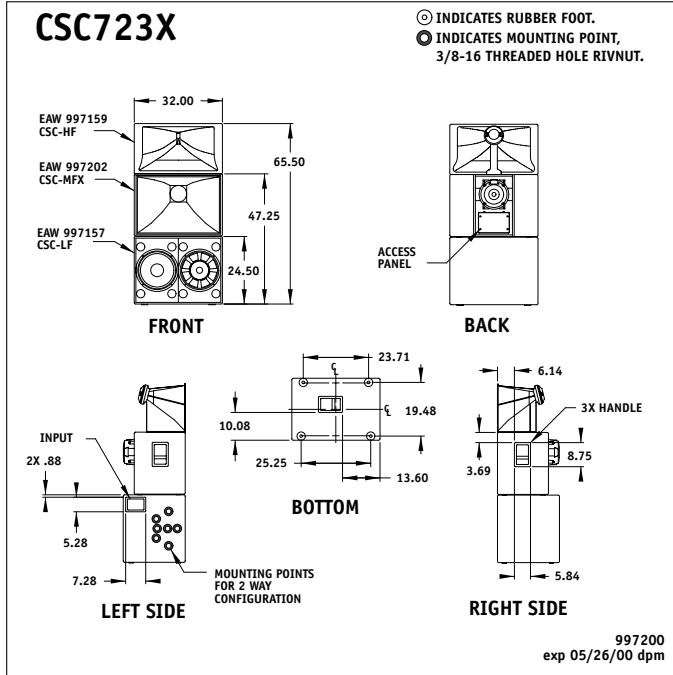
The low frequency sections incorporate EAW’s “push-pull” driver arrangement. The drivers are out of phase relative to each other both physically and electrically, yet their product is acoustically in phase, substantially lowering mechanically induced distortion.

The CSC-MFX mid-frequency section includes an internal passive crossover network, which provides frequency division for the mid and high frequency sections.



DESCRIPTIVE DATA

Part Number	997200	
LF Subsystem	2x15-in vented, push pull configuration	
MF Subsystem	1x10-in horn-loaded cone, Radial Phase Plug™	
HF Subsystem)	1x2-in exit/75 mm voice coil compression driver on 2 axis asymmetrical horn	
Configuration	3-way	
Powering Mode	Bi-amplified	
Enclosure Materials	Baltic birch plywood	
Finish	Wear-resistant textured black paint	
Connectors	2x2-terminal barrier strip	
Dimensions	inches	millimeters
	Height	65.5 in 1663.7
	Width	32.0 in 8128
Depth	22.5 in 5715	
Weights	pounds	kilograms
	Net	204.0 lb 92.53 kg
	Shipping	224.0 lb 101.47 kg



COMPONENTS & CONSTRUCTION

All external components feature a textured, non-reflective, black finish to eliminate the reflection of light through perforated cinema screens.

NOMINAL DATA

Frequency Response

±3 dB 35 Hz to 18 kHz

Sensitivity (dB SPL, 1 Watt @ 1m)

LF 101
 MF/HF 108

Impedance (Ohms)

LF 4
 MF/HF 8

Power Handling, (AES Standard, Watts)

LF 1000
 MF/HF 350

Calculated Maximum Output (dB SPL)

LF Peak 136
 MF/HF Peak 139.4
 LF Long Term 130
 MH/HF Long Term 133.4