



RENKUS-HEINZ



CEM62-3K
CEM92-3K
CEM122-3K
CEM62-3DKA

High-Power **CoEntrant** Mid/High Modules



EXCLUSIVE COENTRANT DESIGN (U.S. Pat. 5,526,456)

provides true point source performance with outstanding resolution and tonal clarity

HIGH OUTPUT SPL LEVELS

multiple high-power drivers, CoEntrant design produce program output SPL levels of up to 140 dB

TIGHTLY CONTROLLED COVERAGE

CoEntrant design provides tightly controlled coverage with constant Q through crossover

MULTIPLE HIGH FREQUENCY DRIVERS

multiple high frequency drivers provide high level, crystal clear highs out to 18 kHz

CHOICE OF COVERAGE PATTERNS

choose between long-throw 60° x 25° and wide-angle (90° x 25° and 120° x 25°) models

MATCHING LOW FREQUENCY ENCLOSURE

matching CE3TLOK low frequency enclosure features 4 heavy-duty 12" woofers, 140 dB SPL

Exclusive CoEntrant Design

These high power mid/high modules were developed as replacements for large format horns in applications that require better sound. They feature CoEntrant Waveguide Technology, a patented Renkus-Heinz break through in loudspeaker design that provides true point source performance along with natural signal alignment and tightly controlled dispersion. The end result is unprecedented sound clarity and near perfect imaging, even at exceptionally high SPL levels. The CoEntrant design also provides exceptional pattern control in both the horizontal and vertical planes down to 350 Hz. They are packaged in easy to array 20° trapezoidal enclosures (10° sides).

True Point Source Performance

The unique CoEntrant design of these loudspeakers ensures proper signal alignment and constant directivity and Q through crossover. This enables them to provide tonal balance and resolution not attainable from other designs. Six 6.5" carbon fiber mid range drivers and multiple high-frequency drivers mounted in a close coupled CoEntrant array feed a single large format horn to complete the picture. They add virtually distortion free performance from 350 Hz to 18 kHz even at extremely high output levels to these loudspeakers credentials.

Matching Low Frequency Enclosure

The matching CE3TLOK low frequency enclosure is identical in size and shape to the mid/high cabinets and delivers an output SPL of 140 dB. It features 4 heavy-duty 12" woofers in an efficient horn-loaded, band-pass design that has the same acoustic origin as these mid high cabinets assuring signal alignment.

Choice of Coverage Patterns Available

The CEM62-3K and CEM62-3DKA offer 60° horizontal by 25° vertical coverage for applications needing long throw capabilities with tight pattern control. The wider-angle CEM92-3K and CEM122-3K provide the 90° and 120° horizontal coverage needed in many of the fan-shaped rooms popular today.

Custom Flexibility

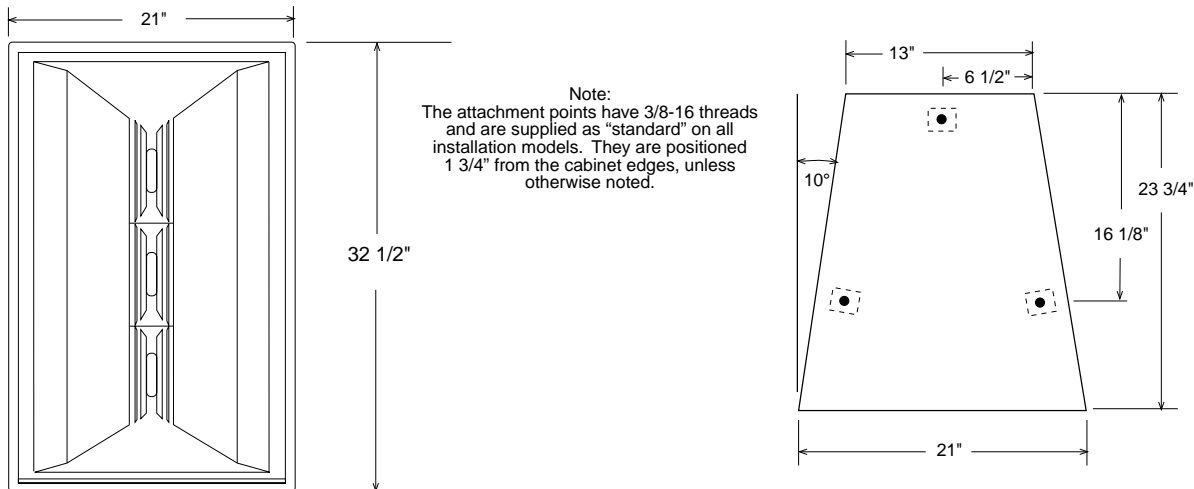
A wide choice of finish and hardware options are offered on these mid/high modules. Finish choices include black carpet, black or white paint, custom paint colors and "natural" (unfinished) to allow customizing in the field. Added cost options include weather resistant treatment and side mounted Aeroquip track fittings in place of the universal mounting hardware.

TECHNICAL SPECIFICATIONS

All specifications are with associated controller

SENSITIVITY (1w/1m) @ 500 HZ:	CEM62-3K; 109 dB pgm	CROSSOVER POINTS:	350 Hz and 2.2 kHz
	CEM92-3K; 108 dB pgm		
	CEM122-3K; 107 dB pgm	ENCLOSURE	13 ply hardwood, heavily braced
	CEM62-3DKA; 109 dB pgm		
MAXIMUM SPL:	CEM62-3K; 140 dB pgm	GRILLE:	Perforated metal grille with moisture resistant foam insert
	CEM92-3K; 139 dB pgm		
	CEM122-3K; 138 dB pgm	CONNECTOR OPTIONS :	Neutrik NL8MPR
	CEM62-3DKA; 140 dB pgm		Screw type terminals
DISPERSION: CEM62-3K & CEM62-3DKA:	60° H by 25° V	FINISH:	Black paint, white paint, natural (unfinished), weather resistant
	CEM92-3K:		
	CEM122-3K:	HARDWARE OPTIONS:	UMH 3/8-16 12-point univ.mtg. hdw
	120° H by 25° V		Aeroquip fly track
FREQUENCY RESPONSE:	350 Hz to 18 kHz	DIMENSIONS:	32.5" H x 21" W x 23.75" D (82.6 cm x 53.3 cm x 60.3 cm)
HIGH FREQUENCY DRIVERS: CEM62-3K, 92-3K & 122-3K:	Three 1" SDA202-8; 120 W RMS at 2.7 Ohms (total), 240 W pgm.	NET WEIGHT:	147 Lbs. (73.5 Kg), except CEM62-3DKA is 162 Lbs. (73.5 Kg.)
	CEM62-3DKA:		
	Three 2" SD3302-8; 240 W RMS at 2.7 Ohms (total), 480 W pgm.	ASSOCIATED EQUIPMENT:	X series controllers, D26A digital controller, R-H amplifiers with C & PK-A controller modules
MID FREQUENCY DRIVERS:	Six SSL 6.5-3 6.5" cone drivers; 780 W RMS at 2.7 Ohms (total), 1560 Watts program (total)		

DIMENSIONAL INFORMATION



ARCHITECTS AND ENGINEERS SPECIFICATIONS

The mid/high loudspeaker module shall be a Renkus-Heinz Model () or approved equal CoEntrant system offering true point source performance.

The loudspeaker system shall consist of six 6.5" carbon fiber cone mid-high drivers and () extended-range high frequency drivers coupled to a single mid/high frequency horn, all mounted in a 20° trapezoidal enclosure. The loudspeaker shall provide () horizontal by () vertical coverage.

The loudspeaker's high frequency power handling capacity shall be no less than () Watts program @ 2.7 Ohms, mids 1560 Watts @ 2.7 Ohms. Sensitivity shall be no less than () dB at 500 Hz) with a maximum SPL of at least () dB program and a frequency response of 350 Hz to 18 kHz.

The enclosure shall be trapezoidal in shape and constructed from 13 ply birch, heavily braced and lined with fiberglass to suppress resonances. It shall be no larger than 32.5" high and 21" wide, be no deeper than 23.75", and weigh no more than 162 Lbs. A matching perforated metal grille backed with protective foam shall be included. The finish shall be (black paint) (white paint) (natural) (weather resistant). Connectors shall be (8-pin Neutrik) (screw type terminal strips). [The enclosure shall be equipped with (universal mounting hardware offering 12 3/8-16 attachment points) (side mounted Aeroquip track)].

The loudspeaker system shall be designed for use with an associated controller, Renkus-Heinz () or approved equal. The controller shall provide crossover, response equalization and protection from overload damage for the associated loudspeaker system.



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