RENKUS-HEINZ

Coherent Topology Systems

CT8LT

Shown without metal grille

ACOUSTICALLY COHERENT TOPOLOGIES
are integrated in high performance systems for applications that demand 140 dB peak SPL and reference quality

COENTRANT TOPOLOGY (U.S. Pat. 5,526,456)
Integrates a midrange cone and HF compression driver into a true point source with inherent time-alignment

COMPLEX CONIC: THE NEXT STEP IN HORN EVOLUTION
Complex Conic horns provide superior pattern control and more natural sound

TRAP "TRUE ARRAY PRINCIPLE" CONFIGURATION
Assures coincident acoustical centers and minimal comb filtering in tight packed arrays

LONG THROW 40º x 30º COVERAGE
and high output level is ideal for use in large arrays

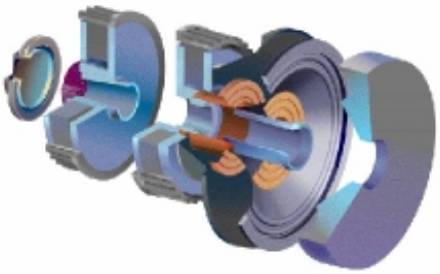
Integrating Innovations for Breakthrough Performance
CT Series systems integrate Ralph Heinz' latest breakthroughs to achieve unprecedented performance. Because acoustics is a physical phenomenon, these advanced systems incorporate physical solutions to longstanding acoustical problems. TRue Array Principle (TRAP) enclosures ensure optimum coverage in tight-packed arrays. Complex Conic horns provide superior pattern control and more natural reproduction than conventional horns. Patented CoEntrant topology creates a new type of wideband, low distortion point source transducer. The result of integrating these new ideas is a system that redefines "reference quality" in medium- to large-scale sound reinforcement.

Advanced Complex Conic Horn Design
Designed around the spherical expansion of the acoustic pressure wave, Complex Conic horns combine constant beamwidth/directivity without the problems of conventional rectangular horns. These unique waveguides eliminate low frequency "pattern flip." The circular mouth has no corners to cause high frequency "feathering" and the resulting distortion.

With extended pattern bandwidth, lower distortion, and minimal coloration, Complex Conic horns work better and sound far more natural than ordinary horns.

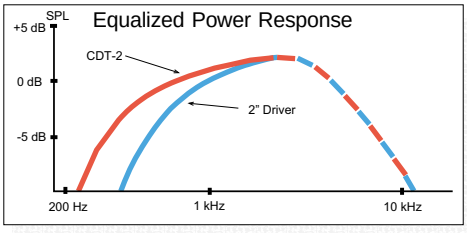
Because they have no large planar surfaces, Complex Conic horns are less prone to in-band resonances than ordinary horns. To eliminate resonance-induced coloration, CT Series horns are molded from UHMW Polyurethane.

Patented CoEntrant Topology
Integrates the acoustic output of an 10" cone and a 2" compression driver into a wideband, high-power true point source. The result is a revolutionary new type of transducer that outperforms ordinary compression drivers in every dimension: power handling, frequency response, distortion, reliability, etc.



Cutaway view showing CoEntrant Driver concept

Equalized Power Response Chart clearly shows the superior bandwidth of the CDT-2



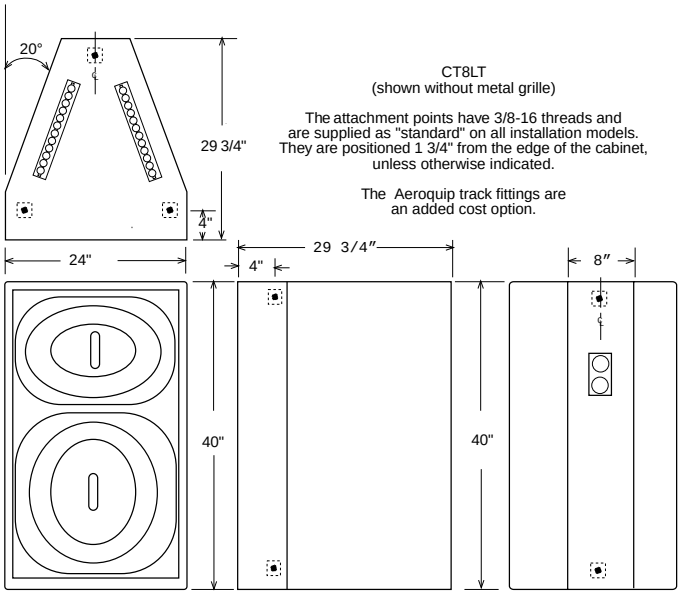
TRAP (TRue Array Principle) Operation
The CT8LT with its 40º horizontal dispersion is a true TRAP module that combines smoothly with other CT8 series loudspeakers in arrays to drastically reduce comb filtering effects.

TECHNICAL SPECIFICATIONS

Specifications subject to change without notice

SENSITIVITY (1W/1m):	
800 Hz:	106 dB
2500 Hz:	111 dB
MAXIMUM SPL:	
MIDS:	137 dB program, 140 dB peak
HIGHS:	136 dB program, 139 dB peak
DISPERSION:	40° H by 30° V
FREQUENCY RESPONSE:	350 Hz to 18 kHz
MID/HIGH DRIVER:	Two CDT-2 CoEntrant w/3" throat, 2" HF & 10" mids. Each 300 W RMS into 8 Ohms (600 W pgm). M/H passive crossover included.
POWER REQUIREMENT:	1200 Watts program at 4 Ohms
CROSSOVER POINTS:	350 and 1500 Hz
ENCLOSURE MATERIALS:	Multi-ply hardwood with perforated metal grille
CONNECTOR OPTIONS:	Neutrik NL4MPR or screw terminals
FINISH OPTIONS:	Black carpet, black or white paint, Natural (unfinished) Weather resistant
HARDWARE OPTIONS:	Handles, 12-point 3/8-16 univ. mtg. hdw, Aeroquip fly track
DIMENSIONS:	40" H x 24" W x 29 3/4" D (101.6 cm x 61 cm x 75.6 cm)
NET WEIGHT:	200 Lbs (90.7Kg)
ASSOCIATED ITEMS:	R-H System Specific power amplifiers and Loudspeaker Specific Processor modules, X series controllers, D26A digital processor.

DIMENSIONAL INFORMATION



CT8LT
(shown without metal grille)

The attachment points have 3/8-16 threads and are supplied as "standard" on all installation models. They are positioned 1 3/4" from the edge of the cabinet, unless otherwise indicated.

The Aeroquip track fittings are an added cost option.

NOTE:

For more detailed dimensional information, please refer to the 2D/3D drawing files on our web site or to the R-H Configurator.

ARCHITECTS AND ENGINEERS SPECIFICATIONS

The loudspeaker shall be a Renkus-Heinz ( ) or approved equal long throw loudspeaker system utilizing Complex Conic Horn Technology. Loudspeakers having conventional constant beamwidth or conical horns will not be considered equal.

The loudspeaker system shall consist of two CoEntrant mid/high drivers coupled to complex conic horns. Each mid/high driver shall include a 2" HF driver and 10" weather resistant, treated paper cone, mid frequency driver having a 600 Watt at 8 Ohms program power rating. The enclosure shall be a 40° trapezoidal cabinet constructed from multi-ply hardwood.

It shall include a built-in mid/high crossover network. The loudspeaker shall provide closely controlled 40° horizontal dispersion and 30° vertical coverage. Sensitivity at 800 Hz shall be no less than 106 dB @ 1W,1m. Maximum program SPL shall be at least 137 dB. The frequency response shall be 350 Hz to 18 kHz.

The finish shall be (black carpet) (black paint) (white paint) (natural) (weather resistant). Connectors shall be (4-pin Neutrik)(screw terminals). The loudspeaker shall be no larger than 40" high, 24" wide and 29 3/4" deep. It shall weigh no more than 200 Lbs. A matching perforated metal grille shall be included. The enclosure shall be equipped with (universal mounting hardware providing a minimum of twelve 3/8-16 attachment points) (top and bottom mounted Aeroquip fly track).

RENKUS-HEINZ

19201 Cook Street, Foothill Ranch, CA 92610-3501

Tel: 949-588-9997 Fax: 949-588-9514 E-mail: Sales@renkus-heinz.com Web: www.rh.com