



RENKUS-HEINZ

Coherent Topology Systems

CT10



Shown with rigging hardware installed

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. Doublet source design provides exceptional low frequency control in the vertical plane, reducing spillover beneath the loudspeaker.

Advanced Complex Conic Horn Design

Designed around the spherical expansion of the acoustic pressure wave, Complex Conic horns provide 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.

ACOUSTICALLY COHERENT TOPOLOGIES

are integrated in high performance systems for applications that demand 137 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

DOUBLET SOURCE DIRECTIVITY

Provides effective low frequency control in the vertical plane

IDEAL FOR BOTH VERTICAL & HORIZONTAL ARRAYS

20° x 40° coverage was engineered for minimum lobing in both vertical and horizontal arrays and stacks

INTERGAL RIGGING ELIMINATES EXTERNAL TRUSSING

Optional built in tie bars lock cabinets together into a single "flyable" assembly

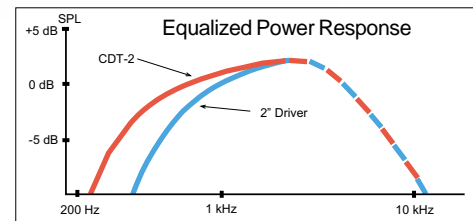
Patented CoEntrant Topology

Integrates the acoustic output of a 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 the unique Coentrant Driver concept

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



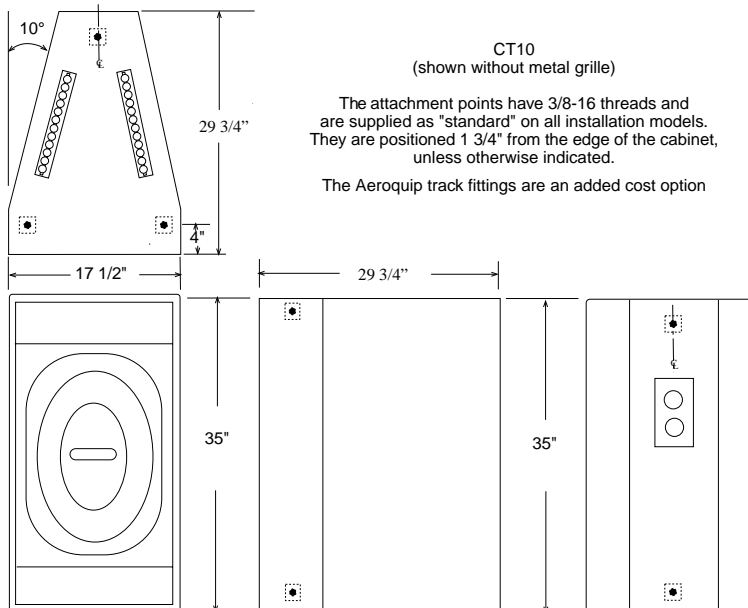
TRAP (TRue Array Principle) Operation

The CT10 with its 20° horizontal coverage pattern is a true TRAP module that combines smoothly in arrays to drastically reduce comb filtering effects.

TECHNICAL SPECIFICATIONS
Specifications are subject to change without notice

SENSITIVITY (1w/1m): 103 dB @ 300 Hz	ENCLOSURE MATERIALS: Multi-ply hardwood with perforated metal grille
MAXIMUM SPL: LOWS: 134 dB program, 137 dB peak MID/HIGH: 131 dB program, 134 dB peak	CONNECTOR OPTIONS: Neutrik NL4MPR or screw terminals
DISPERSION: 20° H by 40° V	FINISH OPTIONS: Black carpet, black or white paint, Natural (unfinished) Weather resistant (add suffix WR)
FREQUENCY RESPONSE: 60 Hz to 18 kHz	HARDWARE OPTIONS: Handles, 12-point 3/8-16 univ. mtg. hdw, Aeroquip fly-track
MID/HIGH DRIVER: CDT-2 CoEntrant w/3" throat, 2" HF driver & 10" mid frequency driver; 600 W pgm @ 8 Ohms. M/H crossover included.	DIMENSIONS: 35" H x 17 1/2" W x 29 3/4" D (88.9 cm x 44.5 cm x 75.6 cm)
LOW FREQUENCY DRIVERS: Dual SSL12-8K 12" woofers; 4" VC, weather resistant cone. 1200 W pgm @ 4 Ohms.	NET WEIGHT: 205 Lbs (93 Kg) ASSOCIATED ITEMS: R-H System Specific power amplifiers and Loudspeaker Specific Processor modules, X series controllers, D26A digital controller.
CROSSOVER POINTS: 350 & 1800 Hz	

DIMENSIONAL INFORMATION



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 full-range, 3-way 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 dual heavy duty 12" woofers and a CoEntrant mid/high driver coupled to a single complex conic horn. The 12" woofers shall have 4" VCs, heavy-duty fiber cones and a 1200 Watt (total) program power rating. The 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. It shall include a built-in mid/high crossover network.

The loudspeaker shall provide closely controlled 20° horizontal dispersion and 40° vertical coverage. Sensitivity shall be no less than 103 dB @ 1w,1m. Maximum program SPL shall be at least 134 dB. The frequency response shall be 60 Hz to 18 kHz.

The enclosure shall be a 20° trapezoidal cabinet constructed from multi-ply hardwood. The finish shall be (black carpet) (black paint) (white paint) (natural) (weather resistant). Connectors shall be (8-pin Neutrik)(screw terminals). The loudspeaker shall be no larger than 35" high, 17 1/2" wide and 29 3/4" deep. It shall weigh no more than 205 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).

