



# RENKUS-HEINZ

Coherent Topology Systems

# CT8DF



Shown without metal grille

### 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 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 134 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; may be rotated 90°

### TRAP "TRUE ARRAY PRINCIPLE" CONFIGURATION

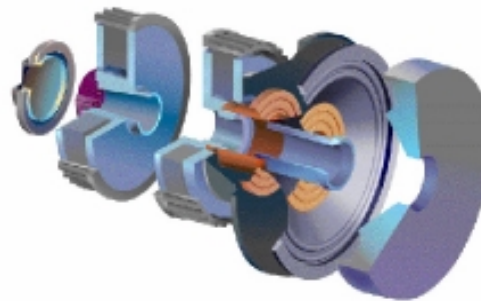
Assures coincident acoustical centers and minimal comb filtering in tight packed arrays

### 40° x 40° ASYMMETRICAL PATTERN

40° x 40° asymmetrical pattern (plus 15° and minus 25°) is ideal for down fill applications

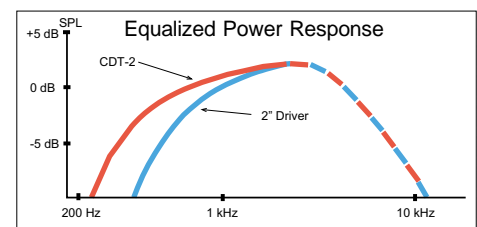
### Patented CoEntrant Topology

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 unique Coentrant Driver concept

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



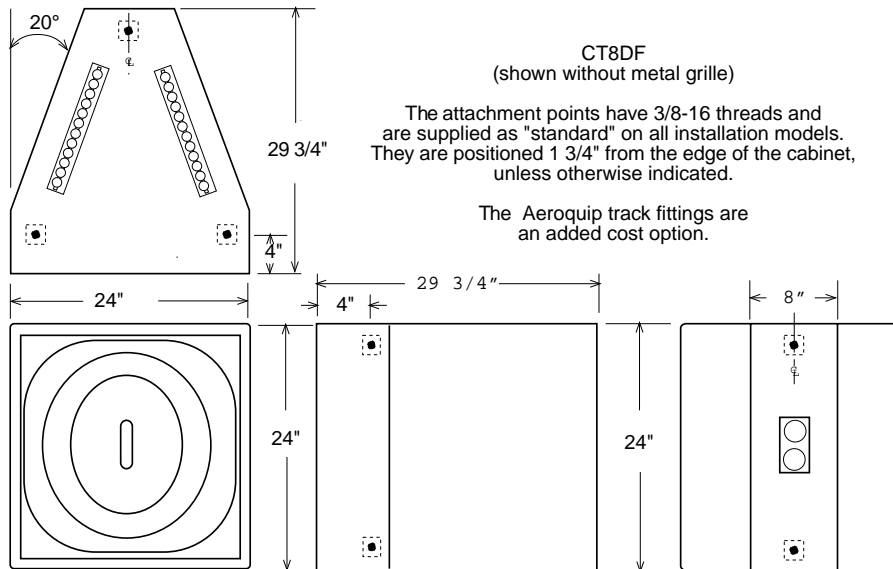
### TRAP (TRue Array Principle) Operation

The CT8DF with its 40° horizontal dispersion is a true TRAP module that combines smoothly in arrays with other TRAP loudspeakers to drastically reduce comb filtering effects.

**TECHNICAL SPECIFICATIONS**  
Specifications subject to change without notice

<b>SENSITIVITY (1w/1m):</b> 103 dB @ 800 Hz 110 dB @ 2.5 kHz	<b>CONNECTOR OPTIONS:</b> Neutrik NL4MPR or screw terminals
<b>MAXIMUM SPL:</b> <b>MIDS:</b> 131 dB program, 134 dB peak <b>HIGHS:</b> 132 dB program, 135 dB peak	<b>FINISH OPTIONS:</b> Black carpet, black or white paint, Natural (unfinished) Weather resistant
<b>DISPERSION:</b> 40° H by 40° V asymmetrical	<b>HARDWARE OPTIONS:</b> 12-point 3/8-16 univ. mtg. hdw, Aeroquip fly-track
<b>FREQUENCY RESPONSE:</b> 350 Hz to 18 kHz	<b>DIMENSIONS:</b> 24" H x 24" W x 29 3/4" D (61cm x 61 cm x 75.6 cm)
<b>MID/HIGH DRIVER:</b> CDT-2 CoEntrant w/3" throat, 2" HF & 10" mids; 600 W pgm into 8 Ohms. Passive M/H crossover.	<b>NET WEIGHT:</b> 130 Lbs (59 Kg)
<b>CROSSOVER POINTS:</b> 350 & 1500 Hz	<b>ASSOCIATED ITEMS:</b> R-H System Specific power amplifiers and Loudspeaker Specific Processor modules, X series controllers, D26A digital controller.
<b>ENCLOSURE MATERIALS:</b> Multi-ply hardwood with perforated metal grille	

**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 mid/high loudspeaker system utilizing Complex Conic horn technology. Loudspeakers having conventional constant beamwidth or conical horns, or systems with separate midrange and high frequency transducers, will not be considered equal.

The loudspeaker system shall consist of a CoEntrant mid/high driver coupled to a single complex conic horn. 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 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 40° asymmetrical vertical coverage. Sensitivity at 800 Hz shall be no less than 103 dB @ 1w,1m. Maximum program SPL shall be at least 131 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 24" high, 24" wide and 29 3/4" deep. It shall weigh no more than 102 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).

