RENKUS-HEINZ

TRX121T

12" WOOFER + 1" HF TWO-WAY COMPLEX CONIC LOUDSPEAKER

Outstanding Performance, Unequalled Versatility

TRX Series loudspeakers use advanced technology and application-driven engineering to bring live sound closer to the ultimate reference point: reality. Cutting edge driver technology and unique innovations such as our Complex Conic horns deliver natural sounding music and intelligible speech. Versatile enclosure designs, combined with a wide range of mounting options and associated hardware, provide unrestricted flexibility for both portable and installed applications. Wherever audiences and operators demand superior performance and ease of use, TRX Series loudspeakers are the choice for unequalled value.

Applications

- Virtually any application where directional control and arrayability are critical issues and outstanding sonic performance is required.
- Distributed systems in sports arenas and stadiums.
- Multi-channel A/V playback systems, live sound and music systems in clubs and disco's (with optional subwoofers.)
- Side fill in large sound reinforcement systems of all types.
- Array modules for theatrical and concert sound systems, sound reinforcement systems in Houses of Worship, performing art centers, etc.

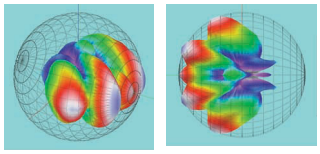
Advanced Complex Conic Horn Design

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"; have no corners to cause high frequency "feathering" and the resulting pattern distortion. With extended pattern bandwidth, lower distortion and minimal coloration, Complex Conic horns work better and sound far more natural than ordinary horns.

TRAP (TRue Array Principle) Design

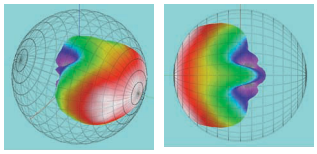
TRAP array modules combine to produce a phase aligned wavefront having an absolute minimum of lobing. The result is no more "hot spots", no more "dead spots"

Conventional Cluster



Conventional loudspeakers interfere with each other to produce lobing

TRAP Cluster



TRAP loudspeakers produce a coherent wavefront

- **20° Trapezoidal Design**
  Outstanding, full-range 65 Hz to 18 kHz performance in compact, 20° trapezoidal enclosures.
- **Exclusive Complex Conic Design**
  Complex Conic horn provides superior pattern control with low distortion.
- **Choice of Coverage Patterns**
  Complex Conic horns provides well controlled 60° by 40° or 90° by 40° coverage, may be rotated 90°.
- **TRAP (TRue Array Principle) Design**
  TRX121T Series loudspeakers with horns rotated 90° become true 40° TRAP array modules.
- **Heavy-Duty 12" Woofer**
  With treated fiber cone easily handles 500 Watts of program power.
- **Built-in Crossover**
  Eliminates need for a separate electronic crossover and bi-amplification.

TECHNICAL SPECIFICATIONS

SENSITIVITY:	99 dB (1W/1m) @ 500 Hz
MAXIMUM SPL:	126 dB program, 129 dB Peak
DISPERSION:	(TRX121T/6) 60° H by 40° V (TRX121T/9) 90° H by 40° V
FREQUENCY RESPONSE:	65Hz to 18 kHz
HF DRIVER:	1" SSD202-8 driver, 40 W RMS, 80 W program
LF DRIVERS:	12" model SSL12-12 woofer, 2.5" VC, treated fiber cone; 250 W RMS, 500 Watts program
CROSSOVER POINT:	1.8 kHz
POWER RATING:	500 Watts program at 8 Ohms
ENCLOSURE:	Multi-ply hardwood with perforated metal grille
CONNECTORS:	Screw terminals or Neutrik 4-pin connectors
FINISH OPTIONS:	Black, white or custom paint Natural (unfinished) Weather resistant
HARDWARE OPTIONS:	12-point univ. mtg. hdw. Omnimount Series 120 nut-plate Tripod socket & handles
DIMENSIONS:	26 1/2" H x 15 1/2" W x 13 3/4" D (67.3 cm x 39.4 cm x 34.9 cm)
NET WEIGHT:	40 Lbs (18.1 Kg) net

ARCHITECTS AND ENGINEERS SPECIFICATIONS

The loudspeaker shall be a Renkus-Heinz (TRX121T/6) (TRX121T/9) or approved equal full-range, 2-way loudspeaker system utilizing Complex Conic horn technology. Loudspeakers having conventional constant beamwidth or oval horns will not be considered equal.

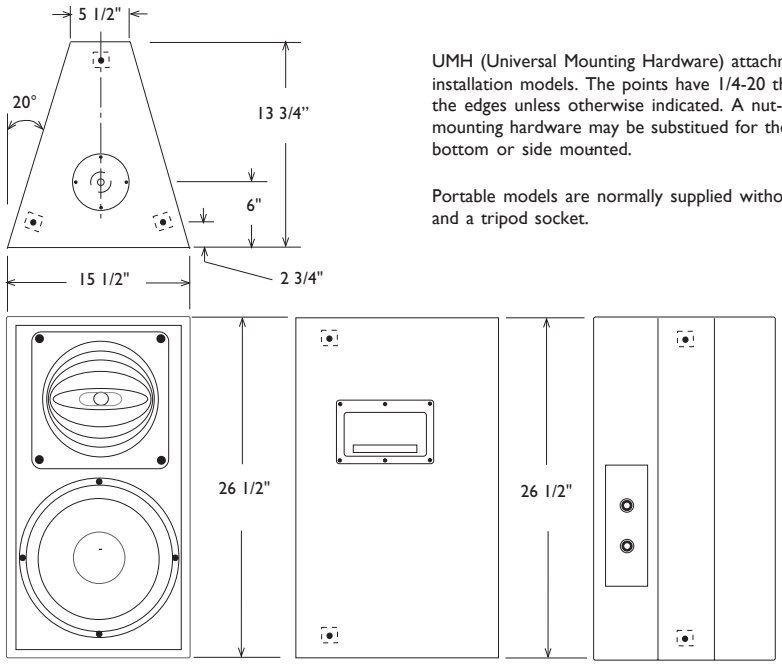
The loudspeaker system shall consist of a heavy duty 12" woofer and an extended-range 1" HF driver coupled to a Complex Conic high frequency horn. The 12" woofer shall have a 2.5" VC, treated fiber cone and a program power rating of at least 500 Watts. High frequency power handling capacity shall be no less than 40 Watts RMS @ 8 Ohms The loudspeaker shall provide (60°) (90°) horizontal dispersion and 40° vertical coverage. It shall include a built-in crossover having a program power rating of 500 Watts at 8 Ohms.

1W,1m sensitivity shall be no less than 99 dB @ 500 Hz with a maximum SPL of at least 126 dB program. The frequency response shall be 65 Hz to 18 kHz. The enclosure shall be constructed from multi-ply hardwood. The finish shall be (black paint) (white paint) (custom color paint) (natural) (weather resistant). (Screw type terminals) (Neutrik 4-pin connectors) shall also be included.

The loudspeaker shall be no larger than 26 1/2" high, 15 1/2" wide and 13 3/4" deep. It shall weigh no more than 40 Lbs. A matching perforated metal grille shall be included.

The enclosure shall be equipped with (1/4-20 universal mounting hardware providing a minimum of 12 attachment points.) (A nut-plate for Omnimount Series 120 mounting hardware.) (a tripod socket and handles.)

Dimensional Information



UMH (Universal Mounting Hardware) attachment points are standard on all fixed installation models. The points have 1/4-20 threads and are positioned 1 1/2" from the edges unless otherwise indicated. A nut-plate for Omnimount Series 120 mounting hardware may be substitued for the UMH points; can be either top, bottom or side mounted.

Portable models are normally supplied without attachment points and with handles and a tripod socket.

NOTE:
The enclosure is shown without its metal grille.

For more detailed dimensional information, please refer to the 2D and 3D drawing files on our website.

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