



RENKUS-HEINZ

REFLEX Series RFX81-E

Two-Way 8" + 1" COMPLEX CONIC Loudspeaker Systems



FULL RANGE, HIGH-LEVEL 2-WAY DESIGN

80 Hz to 18 kHz performance; 118 dB SPL from compact 2-way loudspeaker systems

EXCLUSIVE COMPLEX CONIC DESIGN

Complex conical horns provide superior pattern control with low distortion

1" EXTENDED-RANGE HF DRIVER

Provides smooth, low distortion high frequency performance to 18 kHz

HEAVY-DUTY 6" WOOFER

With a 1.5" VC and treated fiber cone handles 200 W program and provides solid bass down to 80 Hz

DEFINED NEARFIELD COVERAGE PATTERN

Rotatable 90° by 60° Complex Conic horn

CUSTOM FLEXIBILITY AND VERSATILITY

Rotating of coverage pattern, multi-angled cabinet, numerous options offer unprecedented versatility

Uncompromising Performance, Unequaled Value

The new Reflex Series uses advanced technology and application-driven engineering to shift the loudspeaker price/performance curve in a new direction. 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, Reflex loudspeakers are the choice for unequalled value.

REFLEX RFX81-E

- * Accurate full range response from 80 Hz to 18 kHz 118 dB program SPL from a surprisingly compact loudspeaker.
- * Complex Conic horn for superior pattern bandwidth, low distortion and more natural sound.
- * Unique Complex design allows the horn to be rotated 90°, delivering "wide" or "tall" coverage from either vertical or horizontal mounting.
- * Low profile design and angled enclosure sides facilitate mounting the RFX81-E on walls or ceilings, stage lips, under balconies, etc.
- * U-bracket available for fixed installations.

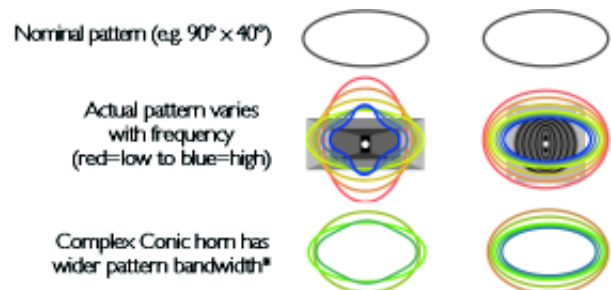
Advanced Complex Conic Horn Design



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.



* Pattern Bandwidth is the frequency range over which a horn's actual dispersion varies $\pm 5^\circ$

Custom Flexibility And Versatility

The RFX81-E loudspeaker is usable in either portable applications or in fixed installations. It is equipped with a tripod socket and "looping" Neutrik connectors and durable paint that offers protection against rough handling.

An optional U-bracket and adapter plate are also available for use in fixed installations.

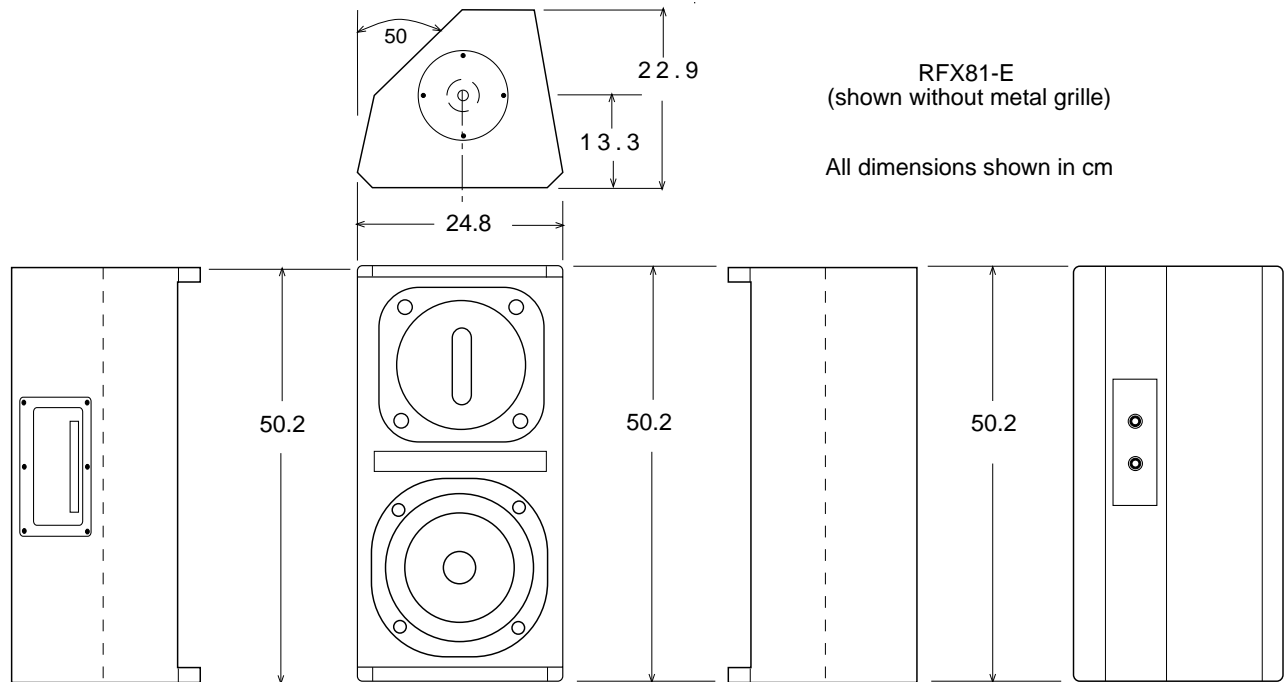
Other loudspeakers in the REFLEX Series

RFX61-E, RFX82-E, RFX121-E,
RFX121T-E, RFX151T-E
RFX12S-E, RFX18S-E

TECHNICAL SPECIFICATIONS

SENSITIVITY (1W,1m):	95 dB @ 500 Hz; 107 dB @ 2500 Hz	ENCLOSURE MATERIAL:	Multi-ply hardwood with perforated metal grille
MAXIMUM SPL:	118 dB pgm, 121 dB peak @ 500 Hz 125 dB pgm, 128 dB peak @ 2500 Hz	CONNECTORS:	Neutrik 4-pin
DISPERSION:	90° H by 60° V rotatable	FINISH:	Black paint
FREQUENCY RESPONSE:	80 Hz to 18 kHz	HARDWARE:	Handle, tripod socket Optional UB81-E U-bracket and cabinet adapter
HIGH FREQUENCY DRIVER:	1" SSD300-8, 30 W RMS at 8 Ohms, 60 W program	DIMENSIONS (H x W x D):	50.2 cm x 24.8 cm x 22.9 cm (19 3/4" x 9 3/4" x 9")
LOW FREQUENCY DRIVER:	8" model SSL8-10 woofer with 1.5" VC, fiber cone; 100 W RMS at 8 Ohms, 200 W program	NET WEIGHT:	10.9 kg (24 Lbs) net
POWER RATING:	200 W program @ 8 Ohms	Product order number:	RFX81-E
CROSSOVER POINT:	1.2 kHz		

DIMENSIONAL INFORMATION



ARCHITECTS AND ENGINEERS SPECIFICATIONS

The loudspeaker shall be a Renkus-Heinz model RFX81-E 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 8" woofer and an extended range 1" HF driver coupled to a Complex Conic high frequency horn. The 8" woofer shall have a 1.5" VC, heavy duty fiber cone and 200 Watt program rating. High frequency power handling capacity shall be no less than 60 Watts program @ 8 Ohms. The loudspeaker shall provide closely controlled 90° horizontal dispersion and 60° vertical coverage.

The sensitivity rating shall be no less than 95 dB @ 1W/1m with a maximum program SPL of at least 118 dB. The frequency response shall be 80 Hz to 18 kHz.

The enclosure shall be multi-angled in shape and constructed from multi-ply hardwood. It shall be no larger than 50.2 high, 24.8 cm wide and 22.9 cm deep (19 3/4" x 9 3/4" x 9"). It shall weigh no more than 10.4 kg (24 Lbs). The finish shall be black paint. A matching perforated metal grille shall be included. The loudspeaker shall be equipped with Neutrik 4-pin connectors, a handle, a tripod socket and built-in 150 Watt 8 Ohm crossover.

Optional -- A-U bracket and cabinet adapter shall also be provided.

