



RENKUS-HEINZ



**TRAPJRK
SERIES**

2-Way Arrayable Loudspeaker Systems



Exclusive Complex Conic Design

TRAPJRK loudspeakers offer outstanding full range, 50 Hz to 18 kHz performance in a compact design that is easy to array. They feature the revolutionary Complex Conic horn developed by Renkus-Heinz, a 1" HF driver and a heavy-duty 600-Watt 12" woofer with a 4" voice coil. They easily handle 600 Watts of power and deliver a clean, undistorted 126 dB output SPL level. The TRAPJR/6K provides long throw 40° horizontal and 60° vertical dispersion; the TRAPJR/9K has 40° horizontal by 90° vertical dispersion. Both loudspeakers are packaged in 40° TRAP "TRue Array Principle" enclosures that assure even array coverage when the cabinets are close coupled along their 20° sides.

Exclusive Complex Conic Design

Complex Conic horn technology combines the best features of constant beamwidth (also called constant directivity) and oval horn designs into a complex conical waveguide that provides superior pattern control, especially at the higher frequencies. It completely eliminates pattern flip, a phenomenon of constant beamwidth horns that reverses the dispersion characteristics at lower frequencies. The waveguides smooth profiles also reduce high frequency "feathering" and the accompanying distortion. The result is lower distortion with reduced high frequency coloration and a far more natural sound than that provided by any prior horn technology.

EXCLUSIVE COMPLEX CONIC DESIGN

Complex Conic Waveguide provides superior pattern control with low distortion

EXTENDED RANGE 1" HF DRIVER

provides smooth, low distortion high frequency performance out to 18 kHz

TRAP "TRUE ARRAY PRINCIPLE" DESIGN

assures coincident acoustic centers and minimal comb filtering in tight packed arrays

POWERFUL LOW FREQUENCY SECTION

heavy-duty 600-watt 12" woofer provides solid bass down to 50 Hz

BUILT-IN CROSSOVER

eliminates the need for bi-amplification, thereby reducing system cost

CUSTOM FLEXIBILITY AND VERSATILITY

choice of coverage patterns and of numerous options offer unprecedented versatility.

TRAP "TRue Array Principle" Design

The TRAP "TRue Array Principle" design of the Waveguides used in these loudspeakers and the design of their enclosures place the acoustic centers of tight packed cabinets in almost perfect alignment. This allows the spherical wavefronts to combine in a coherent manner and drastically reduces comb filtering while assuring consistent frequency response within the cluster's coverage area. Their 40° trapezoidal design (20° sides) and broadband 40° horizontal coverage also turn these loudspeakers into true 40° array modules. In an array, each module combines smoothly with the adjacent module to add 40° to the horizontal coverage.

Custom Flexibility

TRAPJRK loudspeakers are available for either portable use or for permanent installations. Portable models are normally provided with handles and Neutrik connectors. Fixed installation models are usually supplied with screw terminals and universal mounting hardware in place of the handles and connectors. The standard finish is black paint. Optional finishes include white paint and "natural" (unfinished) to allow customizing in the field. Weather resistant models are also available. Mounting hardware choices include Aeroquip track fittings and a universal mounting hardware system that provides a total of twelve 1/4-20 attachment points.

TRAPJRK1 SERIES TECHNICAL SPECIFICATIONS

SENSITIVITY: 99 dB (1w/1m)

MAXIMUM SPL: 127 dB program, 130 dB peak

DISPERSION:
TRAPJR/6K: 40° H by 60° V
TRAPJR/9K: 40° H by 90° V

FREQUENCY RESPONSE: 50 Hz to 18 kHz

HIGH FREQUENCY DRIVER: SDA202-8 1" HF driver, 40 W RMS at 8 Ohms, 80 W program power

LOW FREQUENCY DRIVER: 12" SSL12-8K woofer, 300 W RMS at 8 Ohms, 600 W program power

CROSSOVER POINT: 1600 Hz

CONNECTOR OPTIONS: 4-pin Neutrik, screw terminals

ENCLOSURE: 13 ply hardwood, heavily braced

GRILLE: Perforated metal grille with moisture resistant foam insert

FINISH OPTIONS: Black, white or custom color paint, black carpet, natural, weather resistant

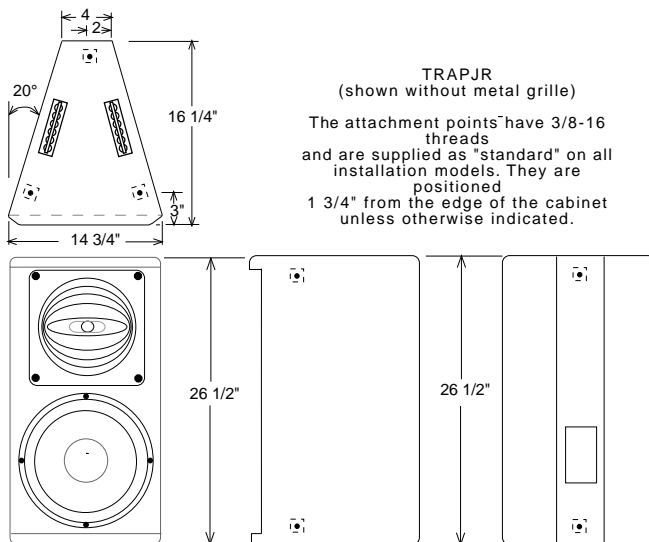
HARDWARE OPTIONS: 1/4-20 12-point universal mounting hardware, Aeroquip track (top & bottom), Handles

DIMENSIONS: 26.5" H x 14.75" W x 16 1/4" D (67.3 cm x 37.5 cm x 41.3 cm)

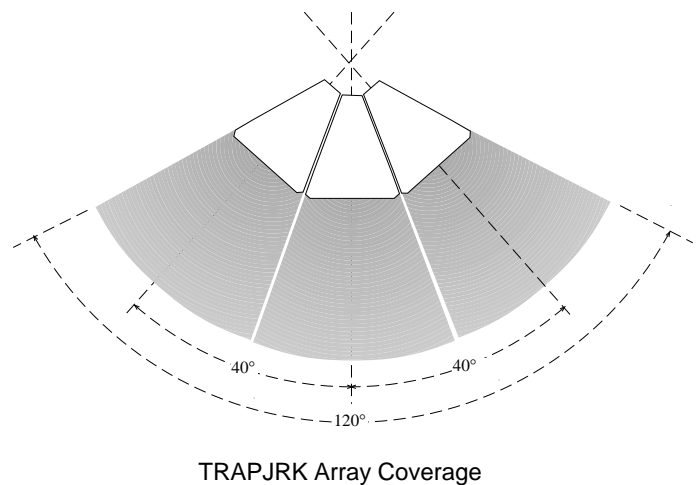
NET WEIGHT: 63 Lbs. (28.6 Kg)

ASSOCIATED EQUIPMENT: BPS Series Subwoofers

DIMENSIONAL INFORMATION



ARRAY COVERAGE



ARCHITECTS AND ENGINEERS SPECIFICATIONS

The loudspeaker shall be a Renkus-Heinz Model () or approved equal 2-way loudspeaker utilizing Complex Conic horn technology. Loudspeakers having conventional constant beamwidth or oval horns will not be considered equal under these specifications.

The loudspeaker system shall consist of an extended-range 1" HF compression driver and a heavy-duty 12" woofer, all mounted in a 40° trapezoidal enclosure. The woofer shall have a 4" edge wound voice coil and a Kevlar reinforced fiber cone. Its power handling capacity shall be at least 600 Watts program.

The system shall include a built-in crossover having a 600 Watt at 8 Ohms power rating. It shall provide (40° H x 60° V) (40° H x 90° V) coverage.

Sensitivity shall be no less than 99 dB @ 1w, 1m with a maximum program SPL of at least () dB and a frequency response of 50 Hz to 18 kHz.

The trapezoidal enclosure shall be constructed from 13 ply birch, heavily braced and lined with fiberglass to suppress resonances. It shall be no larger than 26 1/2" high and 14 3/4" wide, be no deeper than 16 1/4", and weigh no more than 63 Lbs. A matching perforated metal grille backed with protective foam shall be included.

The finish shall be (black carpet) (black paint) (white paint) (natural) (weather resistant). Connectors shall be (4-pin Neutrik) (screw type terminals). The enclosure shall be equipped with (handles) (universal mounting hardware offering 12 1/4-20 attachment points) (Aeroquip track fittings top and bottom mounted).



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