

Klipsch® Professional KP-102

8" Two-way Arrayable Loudspeaker System

The Klipsch Professional KP-102 is a compact, two-way loudspeaker system that delivers considerably high sound pressure levels with extremely low distortion. It employs an eight-inch (203 mm) vented core woofer and a Tractrix® Horn loaded one-inch (25 mm) compression driver with a passive crossover network. The KP-102 system is ideal for foreground and side-fill, medium level sound reinforcement applications. The loudspeaker's arrayable trapezoidal shape, together with its high efficiency and well defined dispersion characteristics, make it a good choice for use in distributed systems, under-balcony fill, central point clusters and delay line utilization.

The KP-102 is built from selected furniture-grade, void-free birch plywood and is offered in two cabinet finishes: (1) B-Black textured paint with a black, powder-coated, perforated metal grille and (2) WH-White textured paint with a white, powder-coated, perforated metal grille. An optional "U" shaped mounting bracket (SB-101) allows quick and easy wall mounting. The bracket is also threaded for attachment to a standard microphone stand when used as a personal near-field monitor.

The KP-102 is equipped with a proprietary limiter device that automatically protects the high frequency driver from being overdriven. A transformer version, model KP-102-T, features a 30-watt transformer for 70/25 V distributed systems.

KP-102

Specifications:

Frequency Response (3 Meters, 1/2 Space Anechoic): 75-20,000 Hz±3 dB
(-10 dB @ 50 Hz)

Power Handling: 100 Watts* (25 V)

Maximum Continuous Output @ 1 Meter with Full Power Input: 115 dB SPL

Dispersion Angle: 90° Horizontal x 40° Vertical

Directivity (Q): 8.1

Directivity Index: 9.1

Sensitivity @ 1 Watt/1 Meter (2.83 V): 95 dB SPL

Nominal Impedance: 8 Ohms (4.3 Minimum @ 180 Hz)

Crossover Network: 3000 Hz, 6 dB/Octave (Woofer); 18 dB/Octave (Tweeter)

Drive Components: LF: KP-8-E 8" (203 mm) Woofer
HF: K-762-KP 1" (25 mm) Compression Driver

Input Connections: Red/Black Five-way Binding Posts

Height: 15 1/2" (39.4 cm)

Width: 12 3/8" (31.43 cm)

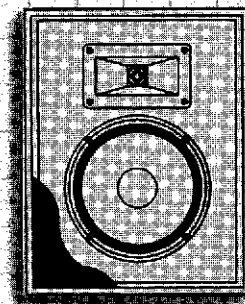
Depth: 11 5/8" (32.1 cm)

Weight: 20 lbs. (9.1 kg)

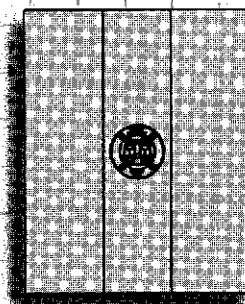
*AES standard, continuous pink noise 50 Hz-10 kHz with 6 dB peaks above the continuous level.

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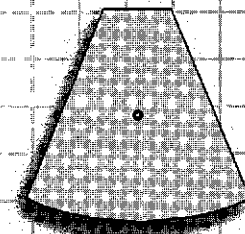
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Front



Rear



Top

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KP-115 15-inch Bass Reflex Woofer

The KP-115 is a compact subwoofer with high output capability in a rugged, modular cabinet configuration.

Stackable and Packable

The KP-115 has a top-mounted stand socket that serves as a base for locating the main speakers in the air. By using 1 1/2 in. (3.8 cm) tubing to connect the two systems, a tripod can be eliminated.

The KP-115 is only 24 1/2 in. (62.2 cm) wide, so it is stackable with many of the most popular two-way systems. It is predrilled for an OMNIMOUNT 300 bracket, making it ideal for hanging with a cluster of horns. The KP-115 is also an excellent choice for use as part of a portable bass guitar rig. When the KP-115 is turned on its side, it is rack-mountable in 14 rack spaces. The optional corner protectors on the two cabinets interlock. The KP-115 is so compact and light it can be shipped by UPS.

Passive Crossover Option

The passive crossover is a factory-installed option on the KP-115-A-X. The KP-115 passive crossover is set at 150 Hz with a slope of 12 dB per octave for the woofer and 6 dB per octave for any full-range speaker system connected to the HF output section. The passive crossover is entirely self-contained on the back of a standard KP series input panel. Installation simply requires removing the old input panel and unplugging the leads to the woofer. The leads from the passive crossover panel are then connected to the woofer and the old screws are used to attach the new panel to the back of the box. It's that simple.

To use the crossover, plug the full-range input into either of the bottom connectors (1/4 in. phone plug or five-way binding posts). Then use a jumper cable to connect either of the top two connectors (HF out) to the input of any full-range system (4 or 8 ohm) or a paralleled pair of 8-ohm speakers. The KP-115 passive crossover will even operate with woofers alone, without any load on the HF output section.

The KP-115 passive crossover allows you to add a subwoofer to just about any system without the complications and expense of blamping. The design of the crossover allows maximum coupling to occur between the subwoofer and the full range enclosure. The slower roll-off of the HF output section lets you get the most out from the woofer in the full-range enclosure before it crosses over to the subwoofer. It also prevents frequencies below the box tuning from reaching the full-range system. System power-handling capability is increased and distortion in the mid-bass region is greatly reduced.



Specifications

Frequency response (Hz): 40-400 \pm 4 dB Usable response to 2,000 Hz, -10 dB at 32 Hz

Power handling (W): 400 watts (43.8 V)*

Max. continuous output (at 1 meter with 400 W input) 127 dB

Dispersion: Essentially omnidirectional below 150 Hz

Directivity: Essentially omnidirectional below 150 Hz

Sensitivity: 101 dB SPL @ 1 m, 2.83 V input):

Nominal impedance: 8 Ω , (5.1 min @ 183 Hz)

Max. long term calculated acoustic output power: 9.6 Acoustic watts

Woofer half-space reference efficiency (%): 2.40

Enclosure tuning (Hz): 36

Crossover frequency: Optional 150 Hz 12 dB/octave low-pass to the woofer and 6 dB/octave high-pass output, with impedance compensation.

Components: Woofer: K-48-K 15-inch (38 cm) die-cast aluminum frame woofer

Input connections: Parallel locking Neutrik D-shell 1/4-in. phone jacks (XLR optional) and parallel red/black five-way binding posts. Input is fused (4-A fuse recommended).

Enclosure: 3/4-inch (19 mm) 9-ply void-free plywood, internally braced & lined with acoustical foam. Metal grille. Woofer attached with cast-steel clamps.

Dimensions (without trim): 18 7/8" (47.9 cm) H, 24 1/2" (62.2 cm) W, 19 1/2" (35.0 cm) D

Weight, lbs. (kg): 65 (29.5) net, 70 (31.8) shipping

Accessories: KP36T support tube
KP18T support tube

*AES standard. Continuous pink noise 40 Hz to 400 Hz, 1,600 W peaks.