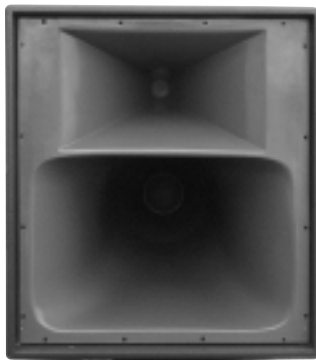




R SERIES

RT 112 F

Horn-loaded mid/high unit for demanding mid-to-long-throw applications. Designed specifically for use with RL 118 or RL 118 F bass horn. "Linear Array" design generates powerful acoustical coupling with precise and accurate directivity as well as the greatest possible freedom from reflections. Aeroquip 8-position fly tracks are included. Internal passive crossover.



Technical Specifications:

Power Handling Nominal (RMS):	300 watts
Power Handling Program:	600 watts
Frequency Response:	130 Hz – 18 kHz \pm 3 dB
Axial Sensitivity 1W / 1m:	112 dB* (106 dB in full space)
Maximum SPL / 1m:	140 dB* @ 10% THD (134 dB in full space)
Nominal Impedance:	8 ohms
Low/Mid Driver:	(1) 12" B&C, horn-loaded
High-Frequency Driver:	(1) 2" B&C
Horn:	50° x 25° / 25° x 50°
X-Over Frequency:	900 Hz
Connectors:	(1) EP 4 male, (1) EP 4 female
Housing:	3/4" -thick, 13-ply Baltic birch plywood
Cabinet Finish:	two-part polyurethane lacquer
Front Grille:	rugged grille cloth
Handles:	(2) recessed handles
Suspension Hardware:	(8) 8-position Aeroquip fly tracks
Castors:	(4) 100-mm diameter wheels
Weight:	75 kg (165 lb)
Dimensions (W x H x D):	60 x 65 x 86 cm (23.5" x 25.5" x 34") including wheels

* measured in half space.



Description

Performance:

The **RT 112 F** is a passive mid/high loudspeaker enclosure for use in biamped sound reinforcement systems. It is specifically designed for use in combination with the horn-loaded subwoofer HK AUDIO RL 118 or RL 118 F. It is especially recommended for its vocal intelligibility, exceptional phase-linear response and directivity as well as its extremely high SPL output.

The **RT 112 F** is primarily designed for sound reinforcement applications requiring high sound-pressure levels for mid-throw or long-throw use.

For maximum operating efficiency, the use of an HK AUDIO DFC Digital Field Controller is recommended, or, as an alternative, the analog controller HK AUDIO AC 22 with the appropriate module.

Design and components:

The **RT 112 F** loudspeaker system consists of a horn-loaded 12" B&C cone woofer and 2" B&C high-frequency driver mounted on a 50° x 25° constant-directivity horn. The two drivers are axially aligned. The shape of the cabinet allows dual-function directivity: by simply turning the cabinet on its side, the directional characteristics of the horn change from 50° x 25° to 25° x 50°.

Acoustic and electronic details:

The **RT 112 F** has a frequency range from 130 Hz to 18 kHz (± 3 dB) and a power-handling capacity of 300 watts RMS (8 ohms). The sound pressure level measured at 1W@1m is 112 dB (in half-space), whereas the maximum sound pressure level (at 1m) is 140 dB (in half-space).

The rear panel of the **RT 112 F** incorporates one 4-pin male EP 4 and one 4-pin female EP 4 connector, all of which are recessed. The connectors are wired in parallel. Pins 1 and 2 carry the mid/high signal. A low-frequency signal can be passed through to the RL 118 (F) subwoofers on pins 3 and 4.

Physical description:

The cabinet is constructed of 3/4"-thick, 13-ply void-free Baltic birch plywood, and is 23.5" wide by 25.5" tall by 34" deep (60 x 65 x 86 cm) including wheels. Weight is 165 lbs (75 kg).

The housing is finished with a waterproof grey two-part polyurethane topcoat. The baffle is covered with a rugged grille cloth.

Two carry handles are recessed in the sides of the cabinet.

The back panel is recessed in such a way that it not only protects the connectors, but also makes it easier to get a secure grip on the cabinets when setting up the PA system.

For added convenience and security while loading in or out, heavy-duty 100-mm wheels are mounted on the back panel of the cabinet, and a protective wooden panel (included) attaches to the baffle.

Connector plate:



Architectural Specifications

The 2-way mid/high loudspeaker system shall incorporate a 12" cone speaker and a 2" HF compression driver and shall be loaded with a constant-directivity horn. The nominal coverage pattern of the horn shall be 25° horizontal and 50° vertical. It shall be possible to change the coverage pattern to 50° horizontal and 25° vertical by turning the enclosure by 90°. An internal passive filter network shall provide the acoustical crossover as well as system frequency and phase correction.

System frequency response shall vary no more than ± 3 dB from 130 Hz to 18 kHz measured on axis. The system shall produce a sound pressure level (SPL) of 112 dB on axis at 1 meter with a power input of 1 watt in half space and shall be capable of producing a maximum output of 140 dB on axis at 1 meter with 10% THD. It shall handle 300 watts RMS and shall have a nominal impedance of 8 ohms.

The enclosure shall be 23.5" wide by 25.5" tall by 34" deep. It shall be constructed of 3/4"-thick, 13-ply void-free Baltic birch plywood and shall be finished in gray polyurethane. Two recessed handles, a recessed back panel and eight TÜV-approved Aeroquip 8-position fly tracks shall be provided. Input connectors shall be one male EP 4 and one female EP 4 connector. The system baffle shall be covered with a rugged black grille cloth plus a detachable rigid security panel for protection while in transit.

The two-way mid/high loudspeaker system shall be the HK AUDIO model **RT 112 F**.