



## R SERIES

# RL 118 (F)

18" band-pass bass horn featuring a cutting-edge design which delivers high sound pressure levels with a vast amount of headroom. Precise, clear response. Excels at reproducing impulse-based signals such as kick drums, etc. Designed especially for use with HK AUDIO RT 112 F flexible mid/high long-throw unit. Ideal for live sound applications and installation projects where outstanding bass reproduction is required. Available with or without 8-position Aeroquip fly tracks.



### Technical Specifications:



<b>Power Handling Nominal (RMS):</b>	600 watts
<b>Power Handling Program:</b>	1200 watts
<b>Frequency Response:</b>	40 Hz – 250 Hz $\pm$ 3 dB
<b>Axial Sensitivity 1W / 1m:</b>	103 dB* ( 97 dB in full space)
<b>Maximum SPL / 1m:</b>	138 dB* @ 10 % THD (132 dB in full space)
<b>Nominal Impedance:</b>	8 ohms
<b>Bass Driver:</b>	(1) 18" Precision Devices woofer with 6" voice coil, horn-loaded
<b>Recommended X-over Frequency:</b>	80 - 200 Hz, 24 dB/octave
<b>Connectors:</b>	RL118 F: (1) EP 4 male, (1) EP 4 female RL118: (1) EP 4 male, (1) EP 4 female, (2) Speakon NL 4
<b>Housing:</b>	19 mm (3/4") thick, 13-ply Baltic birch plywood
<b>Cabinet Surface:</b>	two-part polyurethane lacquer
<b>Front Grille:</b>	rugged acoustic grille cloth, black
<b>Handles:</b>	(2) recessed handles
<b>Suspension Hardware:</b>	RL 118 F: (8) 8-position Aeroquip fly tracks RL 118: none
<b>Castors:</b>	(4) 100 mm blue wheels
<b>Weight:</b>	69 kg / 152 lb
<b>Dimensions:</b>	60 x 65 x 86 cm 23.5" x 25.5" x 34"

\* measured in half space.



## Description

### Performance:

The **RL 118 / RL 118 F** is a horn-loaded subwoofer for use in biamped sound reinforcement systems. It is designed specifically for use in combination with the mid/high module RT 112 F. Primary applications include live sound reinforcement and fixed installations that require high-SPL, natural-sounding bass reproduction and compact dimensions.

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

### Design and components:

The **RL 118 / RL 118 F** is a band-pass-horn system. It is loaded with an 18" Precision Devices cone woofer with 6" voice coil. The speaker is positioned in the horn in such a way that the magnet and voice coil are subjected to ducted cooling in proportion to the load level, thereby avoiding undesirable power compression even after many hours of high-load operation.

### Acoustic and electronic details:

The **RL 118 / RL 118 F** has a frequency range from 40 Hz to 250 Hz ( $\pm 3$  dB) and a power-handling capacity of 600 watts RMS (8 ohms). The sound pressure level measured at 1W@1m is 103 dB (in half-space), and the maximum sound pressure level (at 1m) is 138 dB (in half-space).

The rear panel of the **RL 118** incorporates two Neutrik NL4 Speakon® connectors plus one 4-pin male EP 4 and one 4-pin female EP 4 connector, all of which are recessed. All connectors are wired in parallel. Pins 2+ and 2- of the Speakon connectors carry the sub signal, while in the EP 4 connectors the signal is carried on pins 3 and 4. An HF signal can be passed through to the mid/high module on pins 1+ and 1- of the Speakon connectors and on pins 1

and 2 of the EP 4 connectors. The model **RL 118 F** (Flying version) comes with EP 4 connectors only.



### Physical description:

The cabinet is constructed of 3/4"-thick, 13-ply void-free Baltic birch plywood, 23.5" wide by 25.5" tall by 34" deep (60 x 65 x 86 cm) excluding castors (Euro truck load dimensions!). Weight is 152 lbs (69 kg).

The housing is finished with a waterproof grey two-part polyurethane topcoat. The baffle is covered with a rugged grille cloth. Two 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 greater convenience and security while loading in or out, 100-mm wheels are mounted on the back panel of the cabinet, and a protective wooden panel (included) attaches to the baffle.

### Connector plates:



RL 118



RL 118 F



## Architectural Specifications

The loudspeaker system shall be a low-frequency band-pass horn loaded with an 18" cone woofer.

It shall be driven with the aid of the appropriate stereo 2-way system controller offering a 24-db-per-octave crossover, frequency correction and limiter functions. A passive internal crossover network shall not be included in the system.

System frequency response shall vary no more than  $\pm 3$  dB from 40 Hz to 250 Hz measured on axis. The system shall produce a sound pressure level (SPL) of 103 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 138 dB on axis at 1 meter with 10% THD. It shall handle 600 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 (600 x 650 x 860 mm). Four 100-mm wheels shall be included on the back panel of the housing. The enclosure shall be constructed of 3/4"-thick, 13-ply void-free Baltic birch plywood and shall be finished in grey polyurethane. Two recessed handles shall be included (and eight 8-position TÜV-approved Aeroquip fly tracks shall be included in the F-Version). The back panel of the housing shall be recessed. Input connectors shall consist of two Neutrik NL4 Speakon jacks as well as one male 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 low-frequency loudspeaker system shall be the HK AUDIO model **RL 118 / RL 118 F**.