

RBH Series Cabinets

Owner's Manual

210RBH

410RBH

115RBH

Congratulations

Your purchase of a new Gallien-Krueger RBH Series Cabinet is surely the result of much careful consideration on your part. For our part, we at Gallien-Krueger are pleased that you chose us, and are determined that you will be a satisfied customer. In choosing an RBH Series Cabinet, you own a Speaker Cabinet with unique features, that can take you where you have never been before.

To get the most out of your new purchase please take a few minutes to read through this manual. Your Cabinet should have come with the following items, please check the contents of the box to ensure that you have everything.

Included with your 210RBH Cabinet:

210RBH	1
Owner's Manual	1
Warranty Card	1

Included with your 410RBH or 115RBH Cabinet:

410RBH or 115RBH	1
Swivel Castor	4
Owner's Manual	1
Warranty Card	1

If your RBH Cabinet did not come with all the items listed above, or if you encounter problems while setting up your new equipment, please contact your local dealer, or us as soon as possible at:

Gallien-Krueger, Inc.
2234 Industrial Drive
Stockton, CA 95206
phone: (209) 234-7300
fax: (209) 234-8420
Internet: www.gallien-krueger.com

Always Listening

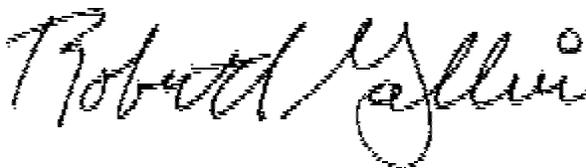
I have never seen the point in doing things the way others have done them. I also have not been very interested in following the latest fad. I am a Stanford educated engineer who worked his way through school as a musician. Like all musicians, I have lugged amplifiers up stairways and into car trunks, always wondering why these things had to be so heavy, bulky, and hard to handle.

As I am the principal innovator at GK, our products reflect my attitudes and life experiences. I don't model my designs after other manufacturer's products (as some of our competitors are proud of reciting). Instead, I believe new and old problems are best solved with new solutions. Having taken our own path, GK products enjoy a unique, unmatched sound, allowing the artist using them every opportunity to make an original statement.

Having supported my products for over thirty years, I have learned from the story they tell. Gallien-Krueger is a reflection of that story, and has a commitment to support that legacy. Just as the products I created thirty years ago are still telling their story, the products we create today will be talking to us tomorrow.

We'll be listening,

Robert Gallien



RBH Features

RBH Series Cabinets are designed to offer the ultimate in sound quality and stage flexibility. They can be played in several positions, upright, stacked on their sides, or rocked back for close monitoring situations. A unique interlocking corner design allows the cabinets to lock together in various positions.

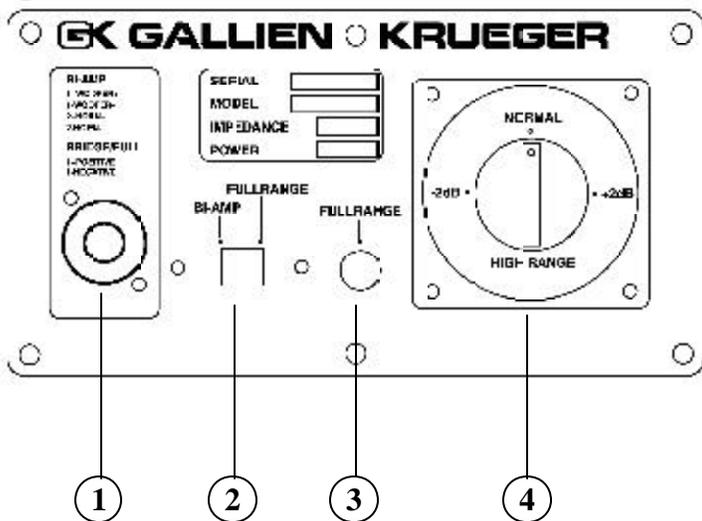
Horn Bi-Amp (HBA) System:

All RBH cabinets include a passive crossover for standard operation or may be used with GK's unique Horn Bi-Amp (HBA) System.

HBA compatible amplifiers use an electronic crossover to split the signal between the main amplifier and a separate horn (tweeter) amplifier. The horn amp sends signals above 5kHz to the horn while the main amplifier sends a full range signal to the woofers. Optionally you can engage the Woofer High-Cut to cut signals above 5kHz from the main amplifier. Both signals are delivered to the cabinet via a single 4-conductor high current twist-lock cable. This arrangement does two things for the sound:

- 1) Electronic crossovers, can be far superior to the passive crossover found in full range speaker cabinets, providing a more seamless, accurate sound.
- 2) With separate power amps for the horn and woofer, the artist can overdrive the woofer power amp (creating the desired growl) while keeping the horn amplifier clean and undistorted.

Input Plate:



1) High Current Twist-Lock Connector:

A Speakon® compatible connector which allows for Horn Bi-Amp (HBA) operation when using the 4-conductor twist-lock speaker cable provided with GK HBA compatible amplifiers. Pins 1+ and 1- connect the main amplifier to the woofers in the cabinet. Pins 2+ and 2-, connect the horn amplifier to the tweeter. By using only pins 1+ and 1- this connector may also be used for full range operation when Full Range mode is selected.

2) Mode Switch:

Switches between Horn Bi-Amp (HBA) mode and Full Range operation. When using this cabinet with a GK HBA compatible head such as the 1001RB-II, this switch should be set to Bi-Amp. For operation with non HBA amplifiers this switch should be set to full range.

3) Full Range 1/4" Input:

Using a standard 1/4" speaker cable, this input jack provides full range operation with any bass amplifier head. HBA mode will not work with this jack.

4) High Range Attenuator:

Adjusts the volume level of the horn when the cabinet is in full range mode. When used in Bi-Amp mode with an HBA compatible amplifier like the 1001RB-II, this control is bypassed and the horn level is adjusted by using the Tweeter control on the front panel of the amplifier.

Horn Bi-Amp Mode:

When the mode switch is set to Bi-Amp, the passive crossover is bypassed and the cabinet may be used with an HBA compatible head such as the GK 1001RB-II. Use a 4-conductor, high current twist-lock speaker cable (supplied with GK HBA amplifiers) to connect the head to the cabinet. Adjustments to the tweeter and woofer signals are controlled from the amplifier's front panel. (the High Range attenuator in the cabinet is bypassed). Now you can push the woofers to the max., while the tweeter remains clean, crisp and free of clipping distortion.

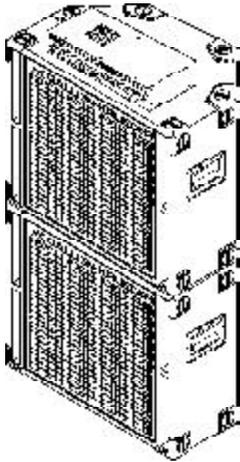
Full Range Mode:

The RBH series cabinets are configured for full range operation by setting the mode switch to Full Range. In this mode you can use either the 1/4" or the twist-lock connector for operation. If you are using the twist-lock connector, make sure the amp positive lead is connected to 1+ and the amp negative lead is connected to 1- on the connector. In this mode the cabinet is setup for full range operation and the tweeter level is controlled by the High Range control on the RBH cabinet.

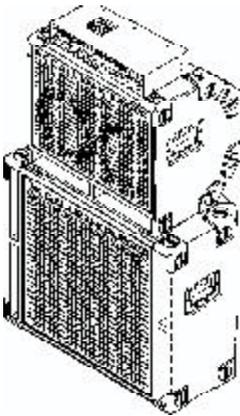
Stacking RBH Cabinets:

To insure the safe setup of the RBH series cabinets and a GK amplifier please follow these basic procedures. When stacking multiple 115RBH and 410RBH cabinets never place them so the handle sides are facing one another. The cabinets' handles should be oriented to the left and right sides of the unit and not the top and bottom. (See "Detail A") When stacking a 210RBH cabinet on a 115RBH or 410RBH, place the 210RBH on an upright, non-handle side of the other cabinet. (See "Detail B") When using a single cabinet, the amplifier may be placed on either the non-handle (See "Detail C" on page 4) or handle side (See "Detail D"). Stacking multiple 210RBH cabinets is not recommended. All RBH cabinets can be tilted back like a floor monitor.

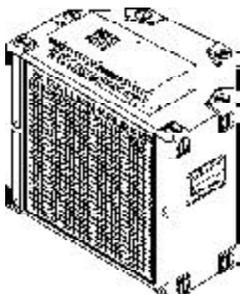
RBH Series Cabinets



Detail A



Detail B



Detail C



Detail D

Specifications

	210RBH	410RBH/8	410RBH/4	115RBH
Cabinet:				
Power Handling:	400W	800W	800W	400W
Impedance:	8 Ohms	8 Ohms	4 Ohms	8 Ohms
Port	Front Slotted			
Rock Back	Yes	Yes	Yes	Yes
Dimensions:	24"W	27.5"W	27.5"W	27.5"W
	20"H	23"H	23"H	23"H
	15.5"D	18"D	18"D	18"D
Weight:	59 lbs	92 lbs	92 lbs	72 lbs
Covering:	Black Carpet			
Construction	3/4" Birch With Dado Joints			
Removable Castors	No	Yes	Yes	Yes
Speakers:				
Woofers:	2xP10/200-16	4xP10/200-32	4xP10/200-16	1xP15/400-8
Basket	Cast Frame			
Horn	1xP508	1xP508	1xP508	1xP508
Inputs:				
1/4 in Full Range	Yes	Yes	Yes	Yes
High Current Twist-Lock	Yes	Yes	Yes	Yes
Cross-Over:				
Passive Cross-Over	18dB/Oct.	18dB/Oct.	18dB/Oct.	18dB/Oct.
Horn Bi-Amp System (HBA)	Yes	Yes	Yes	Yes
Horn Attenuator	Yes	Yes	Yes	Yes
Horn Protection	Power Compensating			
Performance:				
Sensitivity	103 dB	106 dB	106dB	103 dB
Usable Response	40 Hz-18kHz	31 Hz-18kHz	31 Hz-18kHz	31Hz-18kHz