

# GRAS 43BB-3 LOW-NOISE EAR SIMULATOR SYSTEM



Volume: 1260 mm<sup>3</sup> @ 500 Hz  
Dyn range: 10.5 dB(A) to 113 dB  
Based on IEC 60318-4

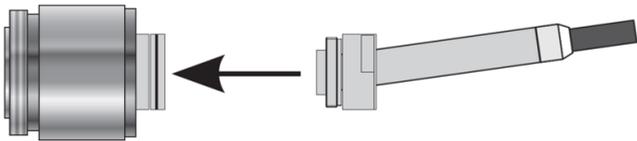
The 43BB-3 Low-noise Ear Simulator System is for acoustic low noise measurements on insert headphones, especially headphones with active noise cancellation. It is based on the IEC 60318-4 ear simulator standard. 43BB-3 Low-noise Ear Simulator System includes a GRAS 12HF 1-Channel Power Module for Low-noise Systems.

43BB is shown in the product picture. For more information about 43BB-3 read the product introduction below.

## Description

The GRAS 43BB-3 is a low-noise, high-sensitive ear simulator system for measurements of sound pressure levels close to or below the threshold of human hearing.

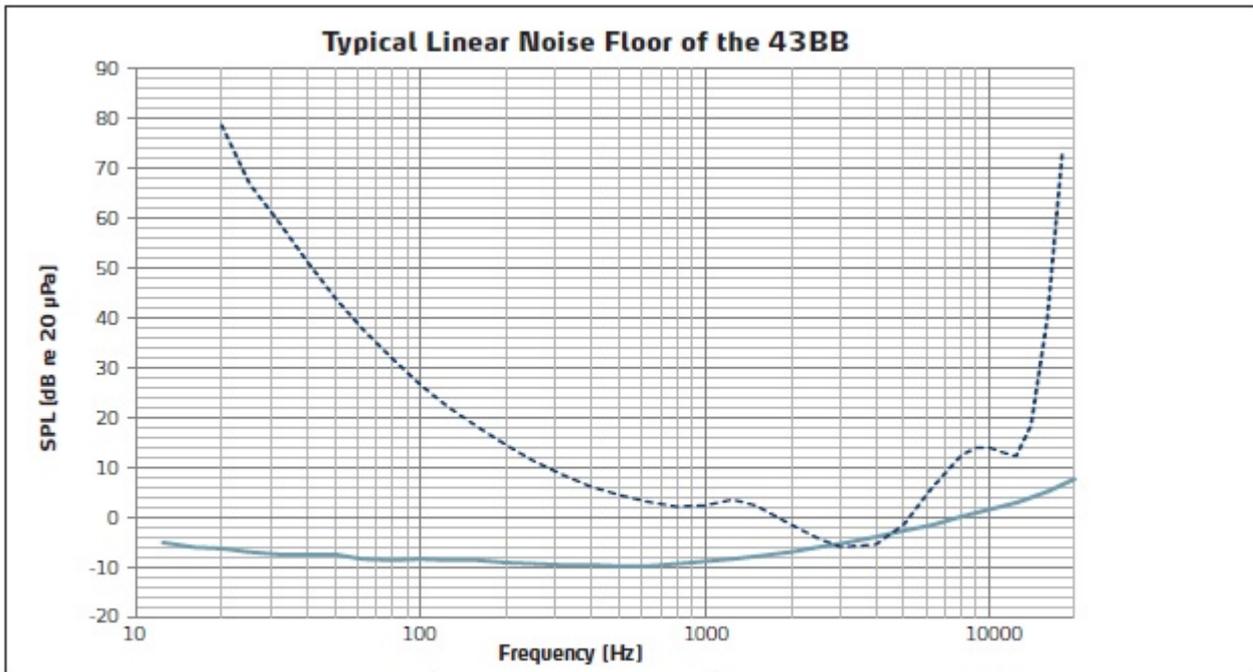
It is identical to the 43BB Low-noise Ear Simulator System except that it uses an 8-degree angled adapter for the preamplifier and therefore can be used in binaural setups inside test fixtures like the GRAS 45CA.



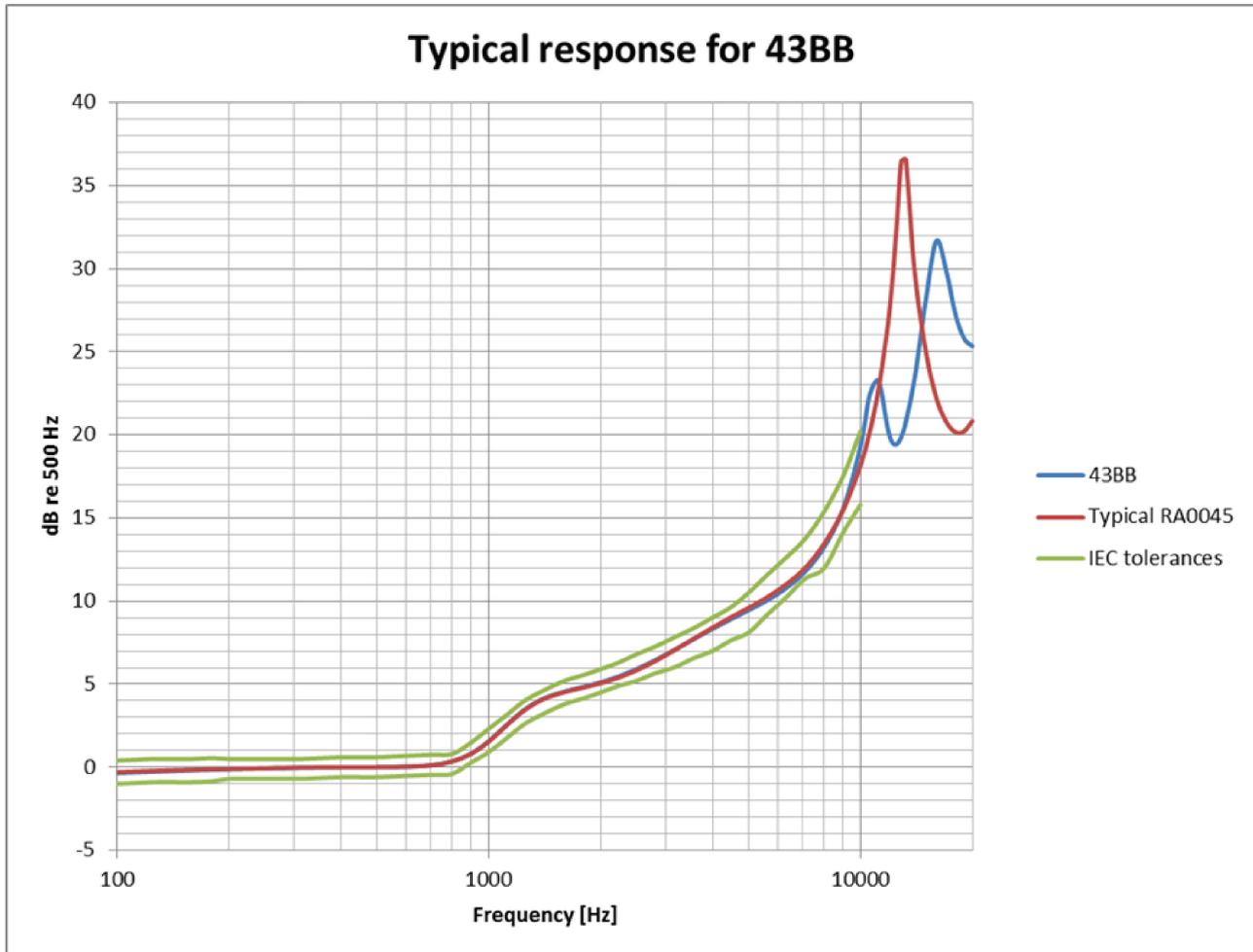
43BB-3 is part of the GRAS 45CA-13 Test Fixture with Anthropometric Pinna for Low-noise tests.

Read about the 43BB [here](#).

Connector type		3 m-pin LEMO
Polarization/ Connection		0 V / CCP
Theoretical dynamic range upper limit with GRAS preamplifier @ +28 V / ±14 V power supply	dB	113
Coupler volume	mm <sup>3</sup>	1260 @ 500 Hz
CE/RoHS compliant/WEEE registered		Yes/Yes/Yes



The noise floor (solid line) is typically below the threshold of human hearing (dashed line).



The frequency response is very similar to the standard 60318-4 ear simulator up to 10 kHz

GRAS Sound & Vibration reserves the right to change specifications and accessories without notice.

## Included Items

GRAS RA0234	Low-noise Ear Simulator
GRAS 40AH	1/2" Ext. Polarized Pressure Microphone, High Sensitivity
<a href="#">GRAS 26HG</a>	1/4" Preampifier with 3 m Integrated Cable
GRAS 26HT	Gain and Filter Unit for 40HT
<a href="#">GRAS 12HF</a>	1-Channel Power Module for Low-noise Systems

## Accessories

<a href="#">GRAS 42AA</a>	Pistonphone, Class 1
<a href="#">GRAS 42AP</a>	Intelligent Pistonphone, Class 0
<a href="#">GRAS RA0090</a>	94 dB Pistonphone Coupler
GRAS RA0237	Straight Ear Canal Extension Kit for KEMAR
<a href="#">GRAS RA0172</a>	Pinna Holder Kit
<a href="#">GRAS AA0046</a>	3 m LEMO 7-pin - LEMO 7-pin Cable for Low-noise measuring system
<a href="#">GRAS AA0047</a>	10 m LEMO 7-pin - LEMO 7-pin Cable for Low-noise measuring system

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# GRAS Worldwide

Subsidiaries and distributors in more than 40 countries

## HEAD OFFICE, DENMARK

**GRAS SOUND & VIBRATION**  
Skovlytoften 33  
2840 Holte  
Denmark  
Tel: +45 4566 4046  
[www.GRASacoustics.com](http://www.GRASacoustics.com)  
[gras@grasacoustics.com](mailto:gras@grasacoustics.com)

## USA

**GRAS SOUND & VIBRATION**  
9290 SW Nimbus Avenue  
Beaverton, OR 97008  
Tel: 503-627-0832  
Toll Free: 800-231-7350  
[www.GRASacoustics.com](http://www.GRASacoustics.com)  
[sales-usa@grasacoustics.com](mailto:sales-usa@grasacoustics.com)

## UK

**GRAS SOUND & VIBRATION**  
Unit 115, Gibson House,  
Ermine Business Park, Huntingdon,  
Cambridgeshire, PE29 6XU  
Tel: +44 (0)7762 584 202  
[www.GRASacoustics.com](http://www.GRASacoustics.com)  
[sales-uk@grasacoustics.com](mailto:sales-uk@grasacoustics.com)

## CHINA

**GRAS SOUND & VIBRATION**  
Room 502, Building T1,  
No.1398 Ali Center  
Shenchang Road,  
Minhang District,  
Shanghai, China, 201107  
Tel: +86 21 400-888-9826  
[www.GRASacoustics.cn](http://www.GRASacoustics.cn)  
[cnsales@grasacoustics.com](mailto:cnsales@grasacoustics.com)



## About GRAS Sound & Vibration

GRAS is a worldwide leader in the sound and vibration industry. We develop and manufacture state-of-the-art measurement microphones to industries where acoustic measuring accuracy and repeatability is of utmost importance in R&D, QA and production. This includes applications and solutions for customers within the fields of aerospace, automotive, audiology, and consumer electronics. GRAS microphones are designed to live up to the high quality, durability and accuracy that our customers have come to expect and trust.

GRAS Sound & Vibration is represented through subsidiaries and distributors in more than 40 countries and is part of Axiometrix Solutions, a leading test solutions provider comprised of globally recognized measurement brands. Read more at [www.GRASacoustics.com](http://www.GRASacoustics.com)

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