

TECHNICAL DATA

Encanta 400 | 300 | 200 | 100 miniBTE R

The Bernafon Encanta miniBTE R (MNB R) is a rechargeable hearing instrument designed for users with slight to profound hearing loss. It offers two fitting levels in one device, 85 and 105, that are configurable in the fitting software. It includes

Bluetooth® LE Audio, Bluetooth Low Energy, and Auracast™ broadcast and supports hands-free communication and direct streaming for iPhone, iPad, Mac and select Android™ devices.

Hook



MNB R

Thin tube 1.3 mm



MNB R

Thin tube 0.9 mm



MNB R

Technical features

- Auracast™ broadcast
- Bluetooth® LE Audio
- Bluetooth® Low Energy
- Contact charging
- Telecoil
- NFMI (Near-Field Magnetic Induction)
- Double push-button
- IP68 rated

Accessories

- Bernafon App
- SoundClip-A
- TV-A (TV adapter)
- RC-A (remote control)
- Bernafon Charger miniBTE R (MNB R)
- Hook and thin tube

For information on compatibility, please visit www.bernafon.com/compatibility
This hearing aid also comes as DemoFlex with the same technical data

Operating and charging conditions
Temperature: +5°C to +40°C (41°F to +104°F)
Humidity: 5% to 93% relative humidity, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

Transportation and storage conditions
Temperature and humidity shall not exceed the mentioned limits during transportation and storage.

Transport
Temperature: -20°C to +60°C (-4°F to +140°F)
Humidity: 5% to 93% relative humidity, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

Storage
Temperature: -20°C to +30°C (-4°F to +86°F)
Humidity: 5% to 93% relative humidity, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

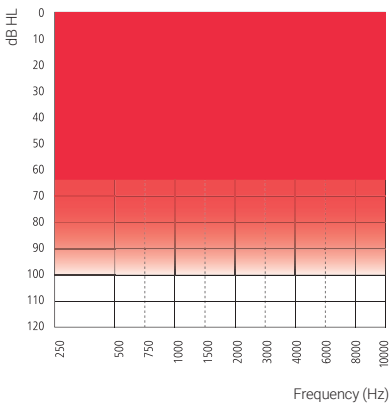
WARNING: No modification of this equipment is allowed.

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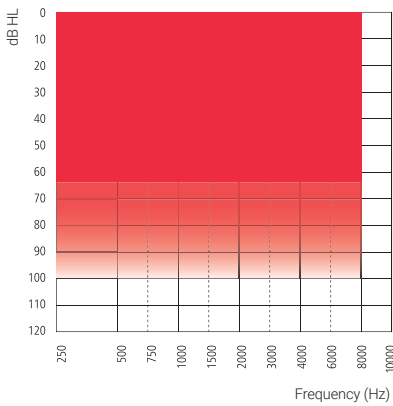


Fitting ranges

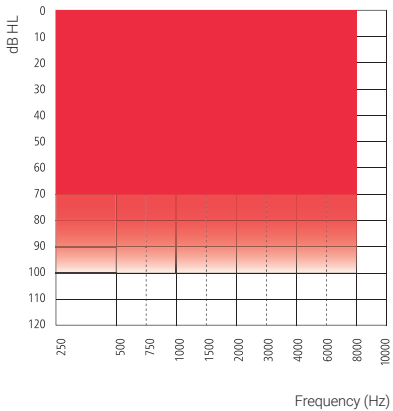
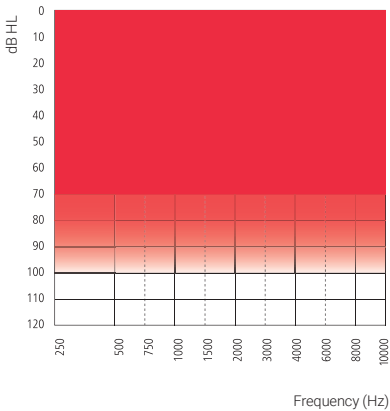
Bernaфон Encanta 400



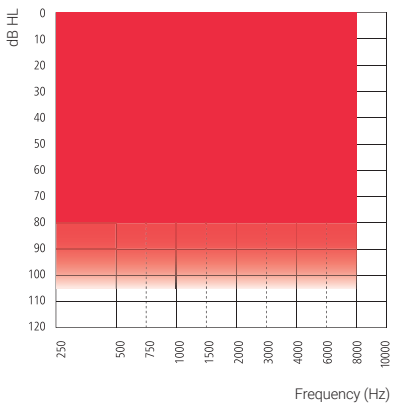
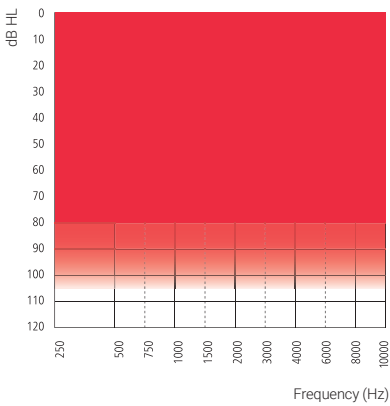
Bernaфон Encanta 300 | 200 | 100



85
Hook



85 105
Thin tube



105
Hook

Feature overview

	Encanta 400	Encanta 300	Encanta 200	Encanta 100
Smart sound processing				
Smart Amplification	•	•	•	•
Frequency bandwidth	10 kHz	8 kHz	8 kHz	8 kHz
Smart Noise Management	•	•	•	•
Smart Noise Reduction	5 options	4 options	3 options	2 options
Directionality Preference	4 options	4 options	4 options	3 options
Smart Directionality States	3 options	2 options	—	—
Omni Preference	2 options	2 options	—	—
Smart Sensor	•	•	—	—
Speech and Noise Balancer	•	•	—	—
Speech Balancer	3 options	2 options	•	•
Noise Balancer	4 options	2 options	—	—
Smart Feedback Canceller	•	•	•	•
Wind Contact Noise Protector	•	•	•	•
Audibility and comfort				
Low Frequency Enhancer	•	•	•	•
Frequency Composition	•	•	•	•
Binaural Noise Manager	•	•	•	—
Transient Noise Reduction	6 options	5 options	4 options	2 options
Dynamic Range Extender	•	•	—	—
Soft Noise Manager	•	•	•	•
Directionality options				
Smart Directionality	•	•	•	—
Adaptive Full Directionality	•	•	•	•
Fixed Directionality	•	•	•	•
Fixed Omni	•	•	•	•
Omni Directional	•	•	—	—
Pinna Effect	•	•	—	—
Individualisation				
Personalisation	•	•	•	•
Fitting bands	24	20	18	14
Program options/memories	13/4	11/4	11/4	9/4
Music Experience	•	•	•	•
Binaural coordination: VC, program changes	•	•	•	•
Automatic Adaptation Manager	•	•	•	•
Transition	4 options	3 options	2 options	1 option
Data Logging	•	•	•	•
Conversation Data	•	•	•	•
Spoken indicators	•	•	•	•
Tap control	•	•	•	•
Tinnitus SoundSupport	•	•	•	•
CROS compatibility	•	•	•	•

Encanta 400 miniBTE R

Ear Simulator

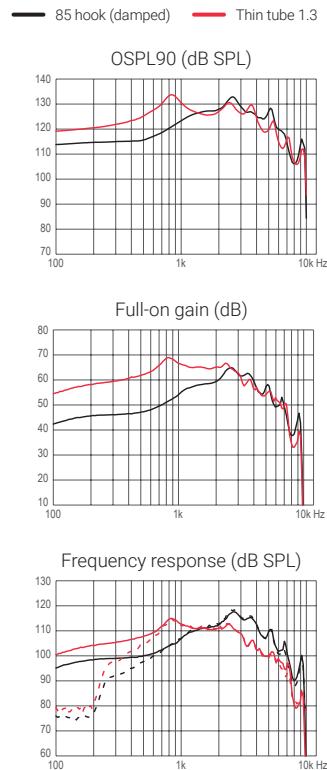
Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2022, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010



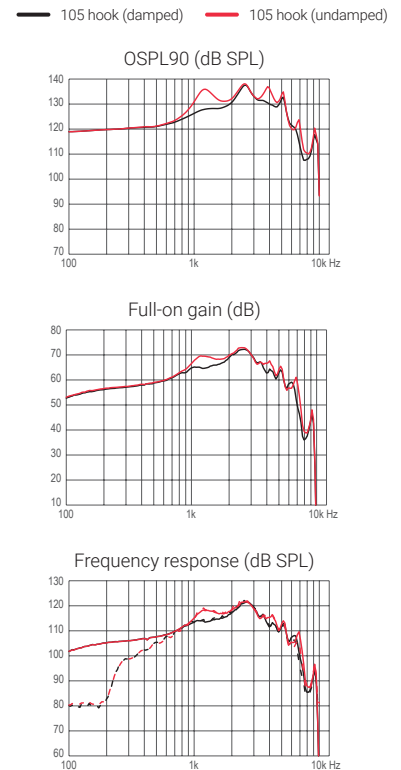
Technical information
Omnidirectional mode is used unless otherwise stated.

85 hook (damped) / 105 hook (damped)
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

Thin tube 1.3 / 105 hook (undamped)
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m



85 hook (damped) Thin tube 1.3



105 hook (damped) 105 hook (undamped)

OSPL90, Peak (dB SPL)	133	134	138	138
OSPL90, 1600 Hz (dB SPL)	127	126	128	132
OSPL90, HFA (dB SPL)	128	129	131	134
Full-on gain, Peak (dB) ¹	65	69	72	73
Full-on gain, 1600 Hz (dB) ¹	58	65	66	68
Full-on gain, HFA (dB) ¹	59	66	68	69
Reference test gain (dB)	51	51	55	57
Frequency range (Hz)	<100-9400	<100-7300	<100-7000	<100-7300
Telecoil output, 1 mA/m field (1600 Hz) (dB SPL)	89	95	97	99
Telecoil output, 10 mA/m field (1600 Hz) (dB SPL)	109	115	117	119
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2	<4	<4
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<3	<2	<4	<3
Total harmonic distortion (Input 70 dB SPL), 1600 Hz (%)	<2	<2	<2	<2
Equivalent input noise level (dB SPL)	17	16	17	16
Battery	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
Expected operating time, hours ²	24	24	24	24

1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.

2) Measurement is done in quiescent mode. Expected use time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

Encanta 400 miniBTE R

2CC Coupler

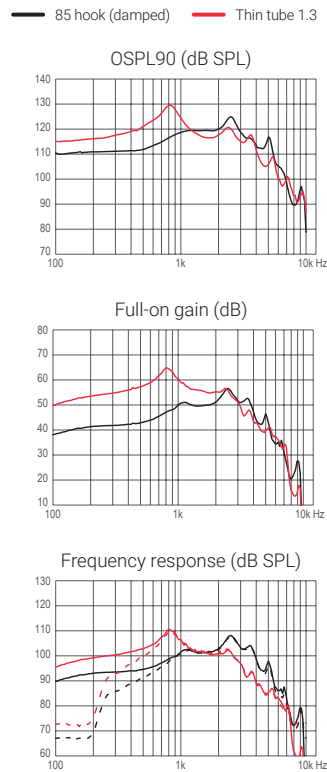
Measured according to ANSI S3.22-2024,
IEC 60118-0:2022 and IEC 60318-5:2006



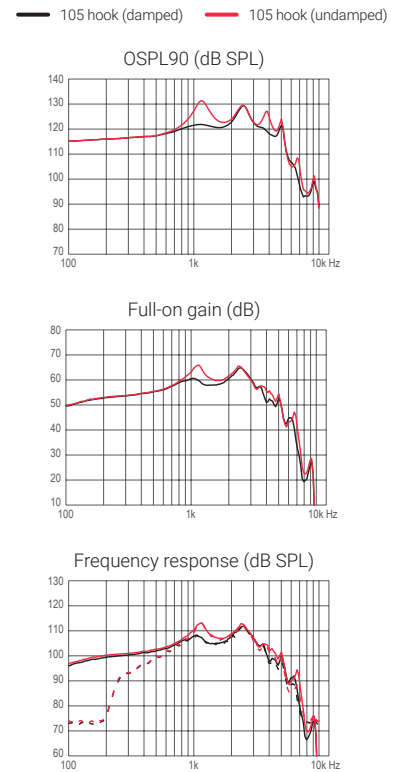
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Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m



85 hook (damped) Thin tube 1.3



105 hook (damped) 105 hook (undamped)

	85 hook (damped)	Thin tube 1.3	105 hook (damped)	105 hook (undamped)
OSPL90, Peak (dB SPL)	125	130	129	131
OSPL90, HFA (dB SPL)	121	120	124	127
Full-on gain, Peak (dB) ¹	57	65	65	66
Full-on gain, HFA (dB) ¹	52	57	61	63
Reference test gain (dB)	44	43	48	50
Frequency range (Hz)	<100-6800	<100-5700	<100-6500	<100-6800
Telecoil output, HFA SPLITS L/R (dB SPL)	103	102	107	109
Full-on HFA-SPLIV (dB SPL)	102	107	111	112
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2	<2	<3
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<2	<2	<3	<2
Total harmonic distortion (Input 65 dB SPL), 1600 Hz (%)	<2	<2	<2	<2
Total harmonic distortion (Input 60 dB SPL), 3200 Hz (%)	<2	<2	<2	<2
Equivalent input noise level (dB SPL)	15	17	15	15
Battery	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
Latency, (ms)	8.3	8.3	8.3	8.3
Expected operating time, hours ²	24	24	24	24

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Ear Simulator

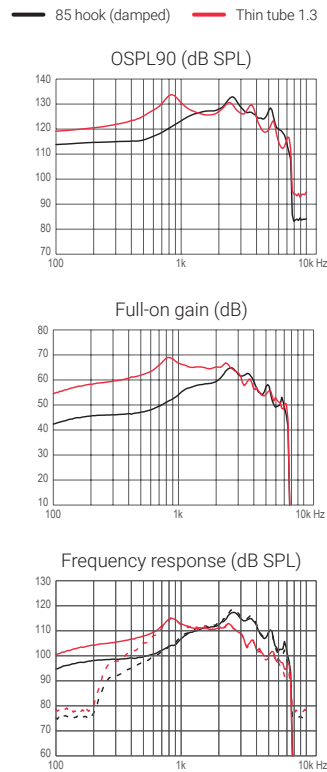
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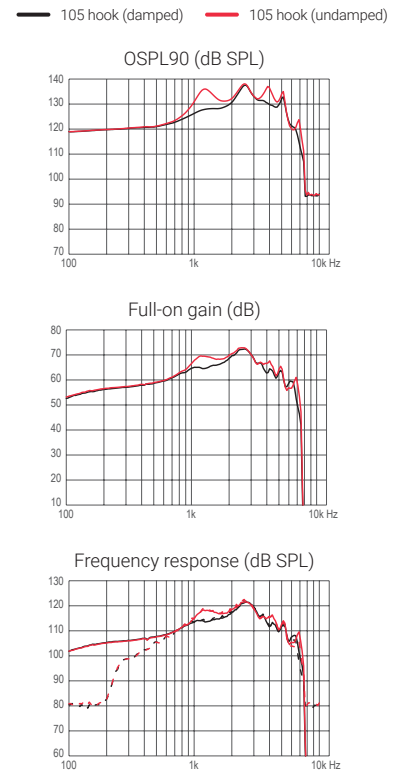
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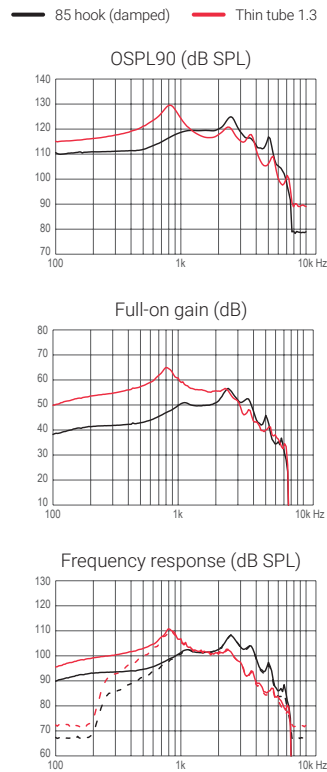
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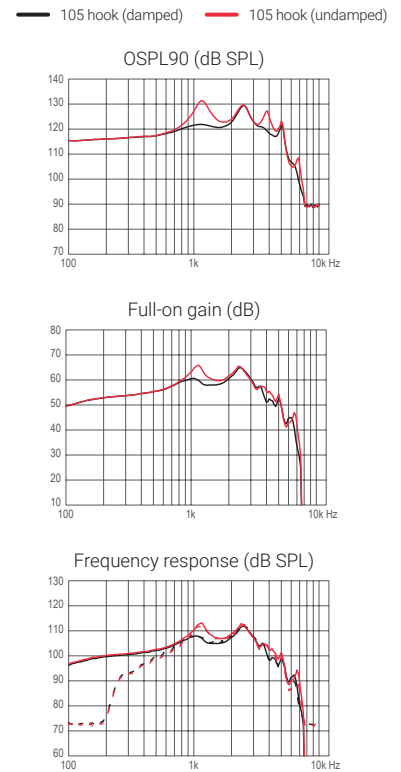
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