TECHNICAL DATA

Entra B 20 | 10
miniBTE T R

Bernafon Entra B is a hearing instrument with Hybrid Technology™. The miniBTE T R is an easy-to-use, rechargeable hearing instrument with a lithium-ion battery to provide power for a full day of use, including direct audio streaming. It is a behind-the-ear hearing instrument designed for users with slight to severe hearing losses. It includes Bluetooth® Low Energy and NFMI technology, a telecoil, and single push-button for volume and program changes. The miniBTE T R is available with the miniFit thin tube system, which includes a variety of domes and custom moulds.

Hook	Thin tube 1.3 mm	Thin tube 0.9 mm
		
MNB T R	MNB T R	MNB T R

Technical features

- Direct audio streaming[1]
- Hands-free communication[2]
- Bluetooth Low Energy technology
- NFMI (Near-Field Magnetic Induction)
- Single push-button
- Telecoil
- Thin tube thin tube
- Hydrophobic coating
- LED visual indicator

Accessories

- Bernafon App
- RC-A (remote control)
- TV-A (TV adapter)
- SoundClip-A
- Charger miniBTE T R
- Charger Plus miniBTE T R

For information on compatibility, please visit www.bernafon.com/compatibility

---

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 for extended periods 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

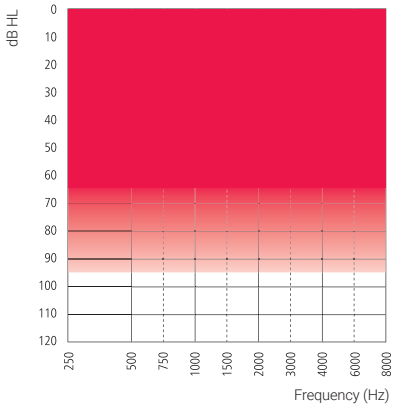
1) From iPhone, iPad, Mac and select Android devices
2) Hands-free communication is available on select devices

Made for iPhone | iPad · Mac · Works with android · IP68

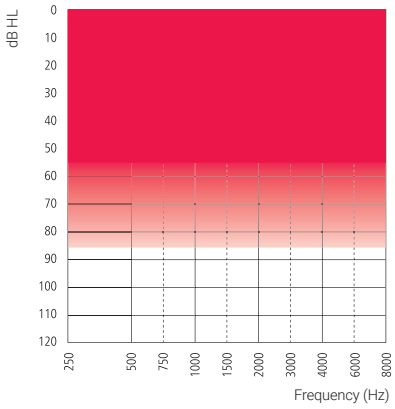
Bernafon

Fitting ranges

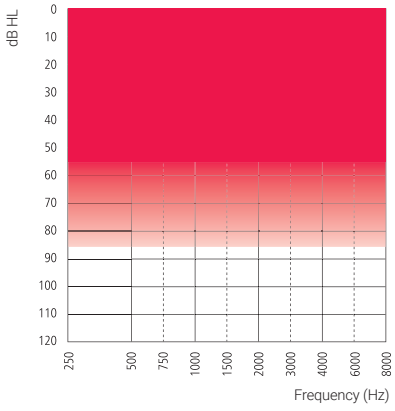
Bernafon Entra B 20 | 10



Hook



Thin tube 1.3 mm



Thin tube 0.9 mm

Feature overview

	Entra B 20	Entra B 10
Hybrid Technology™		
Hybrid Sound Processing™	•	•
Frequency bandwidth	8 kHz	8 kHz
Speech Balancer	•	•
Hybrid Noise Management™	•	•
Smart Noise Reduction	3 options	2 options
Smart Directionality	4 options	3 options
Hybrid Feedback Canceller™	•	•
Speech		
Low Frequency Enhancer	•	•
Frequency Composition^{nxt}	•	•
Comfort		
Transient Noise Reduction	2 options	–
Wind Noise Manager	•	•
Soft Noise Manager	•	•
Directionality controls		
Dynamic	•	–
Adaptive Full Directionality	•	•
Fixed Directionality	•	•
Fixed Omni	•	•
Individualisation		
Personalisation	•	•
Fitting bands	14	12
Program options/memories	10/4	8/4
Music Experience	•	–
Binaural coordination: VC, program change	•	•
Automatic Adaptation Manager	•	•
Transition	•	•
Data Logging	•	•
Tinnitus SoundSupport	•	•
CROS compatibility	•	•

Entra B 20 | 10 miniBTE T R

Ear Simulator

Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010

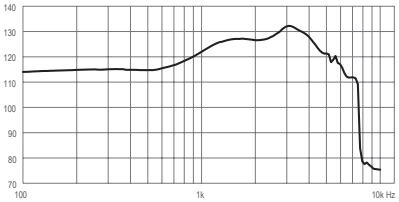
Technical information
Omnidirectional mode is used unless otherwise stated.

Hook / Thin tube 1.3
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

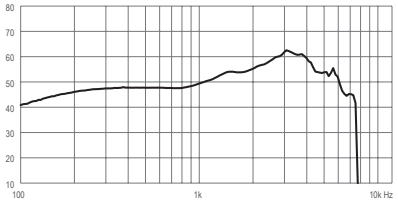
Thin tube 0.9
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

Hook

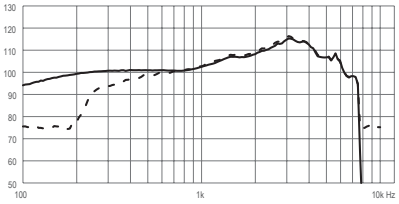
OSPL90 (dB SPL)



Full-on gain (dB)

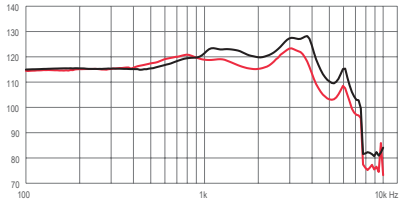


Frequency response (dB SPL)

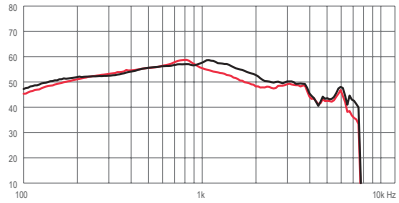


Thin tube 1.3 Thin tube 0.9

OSPL90 (dB SPL)



Full-on gain (dB)



	Hook	Thin tube 1.3	Thin tube 0.9
OSPL90, Peak (dB SPL)	132	128	123
OSPL90, 1600 Hz (dB SPL)	127	122	116
OSPL90, HFA (dB SPL)	126	122	118
Full-on gain, Peak (dB)[1]	63	59	59
Full-on gain, 1600 Hz (dB)[1]	54	55	51
Full-on gain, HFA (dB)[1]	54	54	51
Reference test gain (dB)[1]	47	46	40
Frequency range (Hz)	100-7500	100-7500	100-7500
Telecoil output, 1 mA/m field (1600 Hz) (dB SPL)	85	87	87
Telecoil output, 10 mA/m field (1600 Hz) (dB SPL)	105	*	*
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<4	<5	<3
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<4	<2	<2
Total harmonic distortion (Input 70 dB SPL), 1600 Hz (%)	<2	<2	<3
Equivalent input noise level, Omni (dB SPL)	19	16	19
Equivalent input noise level, Dir (dB SPL)	30	*	*
Battery	Lithium -ion	Lithium -ion	Lithium -ion
Expected operating time, hours[2]	24	24	24

* No measurement performed.

1) Full-on gain is measured with the gain control of the hearing instruments set to its 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+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.

Entra B 20 | 10 miniBTE T R

2CC Coupler

Measured according to ANSI S3.22: 2014,
IEC 60118-0:2015 and IEC 60318-5:2006.

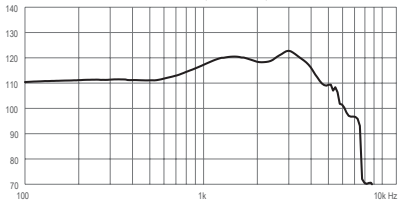
Technical information
Omnidirectional mode is used unless otherwise stated.

Hook / Thin tube 1.3
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

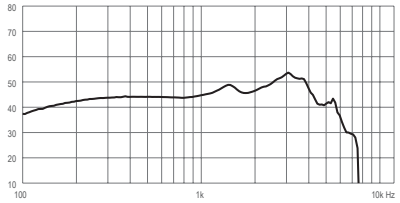
Thin tube 0.9
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

Hook

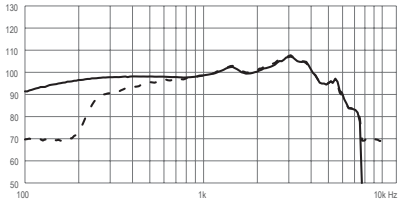
OSPL90 (dB SPL)



Full-on gain (dB)

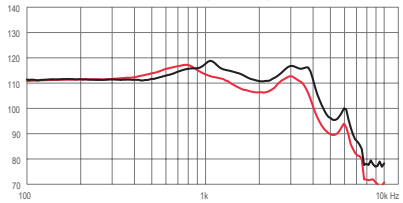


Frequency response (dB SPL)

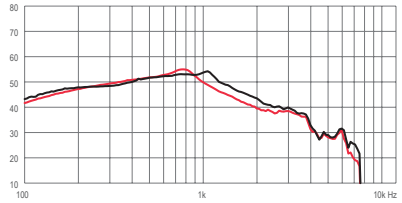


Thin tube 1.3 Thin tube 0.9

OSPL90 (dB SPL)



Full-on gain (dB)



	Hook	Thin tube 1.3	Thin tube 0.9
OSPL90, Peak (dB SPL)	123	119	117
OSPL90, 1600 Hz (dB SPL)	120	114	108
OSPL90, HFA (dB SPL)	119	115	110
Full-on gain, Peak (dB)[1]	54	54	55
Full-on gain, 1600 Hz (dB)[1]	47	46	43
Full-on gain, HFA (dB)[1]	47	47	43
Reference test gain (dB)	41	36	33
Frequency range (Hz)	100-7300	100-6300	100-6800
Telecoil output, 1 mA/m field (1000 Hz) (dB SPL)	74	84	84
Telecoil output, HFA SPLITS L/R (dB SPL)	99	97	91
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<4	<4	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<3	<2	<2
Total harmonic distortion (Input 65 dB SPL), 1600 Hz (%)	<2	<2	<2
Equivalent input noise level, Omni (dB SPL)	17	19	21
Equivalent input noise level, Dir (dB SPL)	32	*	*
Battery	Lithium -ion	Lithium -ion	Lithium -ion
Expected operating time, hours[2]	24	24	24

* No measurement performed.

1) Full-on gain is measured with the gain control of the hearing instruments set to its 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+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.

Notes

Notes

276003UK / 2024.05.23 / v1

SBO Hearing A/S
Kongebakken 9
DK-2765 Smørum
Denmark

www.bernafon.com

Bernafon is part of the Demant Group.

Bernafon