TECHNICAL DATA

Entra B 20 | 10
IIC, CIC

Bernafon Entra B IIC and CIC are the smallest in-the-ear hearing instruments of the Entra B family, suitable for slight to severe hearing losses. These instruments offer the revolutionary Hybrid Technology™ included in other Bernafon instrument styles. Sophisticated features work together for seamless and boundless adaptation to listening environments. Placed deeply in the canal, these instruments allow the user to benefit from the natural pinna effect and improve their sound localisation abilities. Each style supports two power levels to better accommodate users' needs.

Speaker 75	Speaker 90	Speaker 75	Speaker 90
			
IIC	IIC	CIC	CIC

Technical features

- Battery size: 10
- Hydrophobic coating
- Push-button[1]
- NFMI (Near-Field Magnetic Induction)[1]

Operating and charging conditions
Temperature: +1°C to +40°C (34°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: -25°C to +60°C (-13°F to 140°F)
Humidity: 5% to 93% relative humidity, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

Storage
Temperature: -25°C to +60°C (-13°F to 140°F)
Humidity: 5% to 93% relative humidity, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

1) Optional features only available for CIC

WARNING: No modification of this equipment is allowed.

IP68

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Fitting ranges

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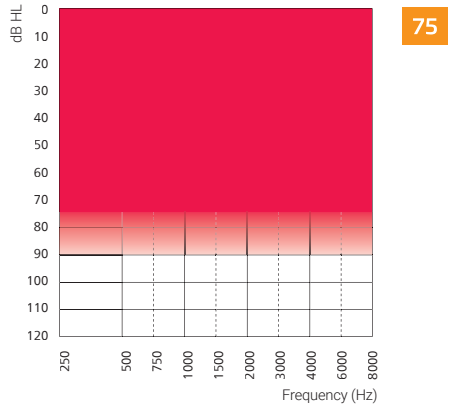

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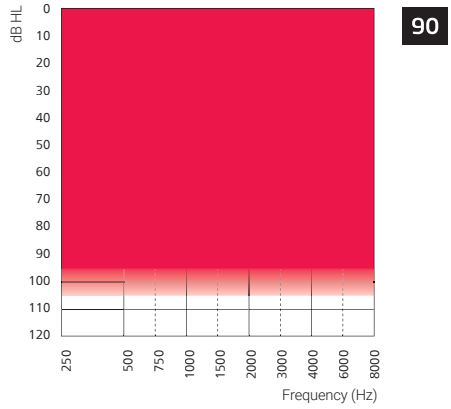

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Feature overview

	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
Hybrid Feedback Canceller™	•	•
Speech		
Frequency Composition[nxt]	•	•
Comfort		
Transient Noise Reduction	2 options	–
Soft Noise Manager	•	•
Individualisation		
Personalisation	•	•
Fitting bands	14	12
Program options / memories[2]	6/4	4/4
Music Experience[2]	•	–
Binaural coordination: VC, program change[1]	•	•
Automatic Adaptation Manager	•	•
Transition	•	•
Data Logging	•	•
Tinnitus SoundSupport[1,2]	•	•

1) Requires NFMI (only available for CIC)
2) Requires push-button (only available for CIC)

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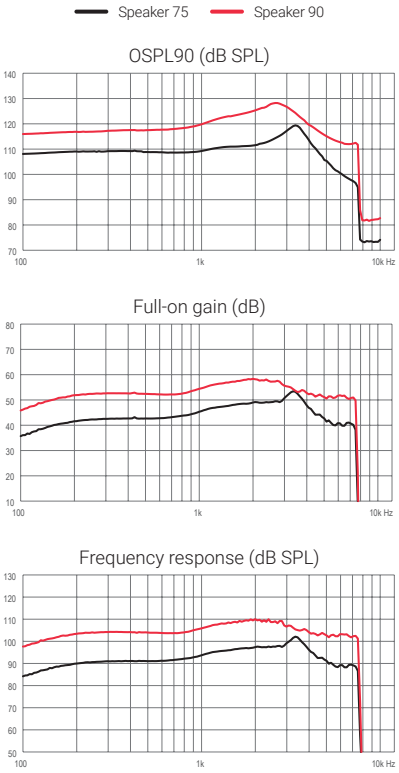
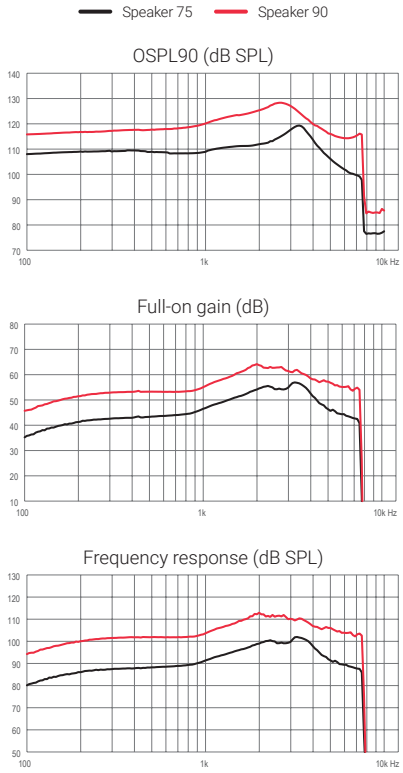
Ear Simulator

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.





	IIC		CIC	
	Speaker 75	Speaker 90	Speaker 75	Speaker 90
OSPL90, Peak (dB SPL)	119	128	119	128
OSPL90, 1600 Hz (dB SPL)	111	124	111	124
OSPL90, HFA (dB SPL)	111	124	111	124
Full-on gain, Peak (dB)[1]	53	58	57	64
Full-on gain, 1600 Hz (dB)[1]	48	57	51	61
Full-on gain, HFA (dB)[1]	48	56	51	60
Reference test gain (dB)	37	49	36	49
Frequency range (Hz)	100-7500	100-7500	100-7500	100-7500
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<3	<4	<3	<3
Total harmonic distortion (Input 70 dB SPL), 1600 Hz (%)	<4	<2	<3	<2
Equivalent input noise level, Omni (dB SPL)	19	17	19	18
Battery consumption, Typical (mA)[2]	1.6	1.8	1.6	1.8
Battery consumption, Quiescent (mA)[2]	1.6	1.6	1.5	1.6
Battery life, artificial measurement, hours[3]	60	55	65	55
Expected battery life, hours (battery size 10 – IEC PR70)[4]	55-60	50-55	50-60	40-55

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) Battery current is measured according to IEC 60118-0:1983/AMD1:1994 §7.11, IEC 60118-0:2015 §7.7 and ANSI S3.22:2014 §6.13 after a settling time of minimum 3 minutes.
3) Based on the standardised battery consumption measurement (e.g. IEC 60118-0:1983/AMD1:1994). The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.
4) Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels.

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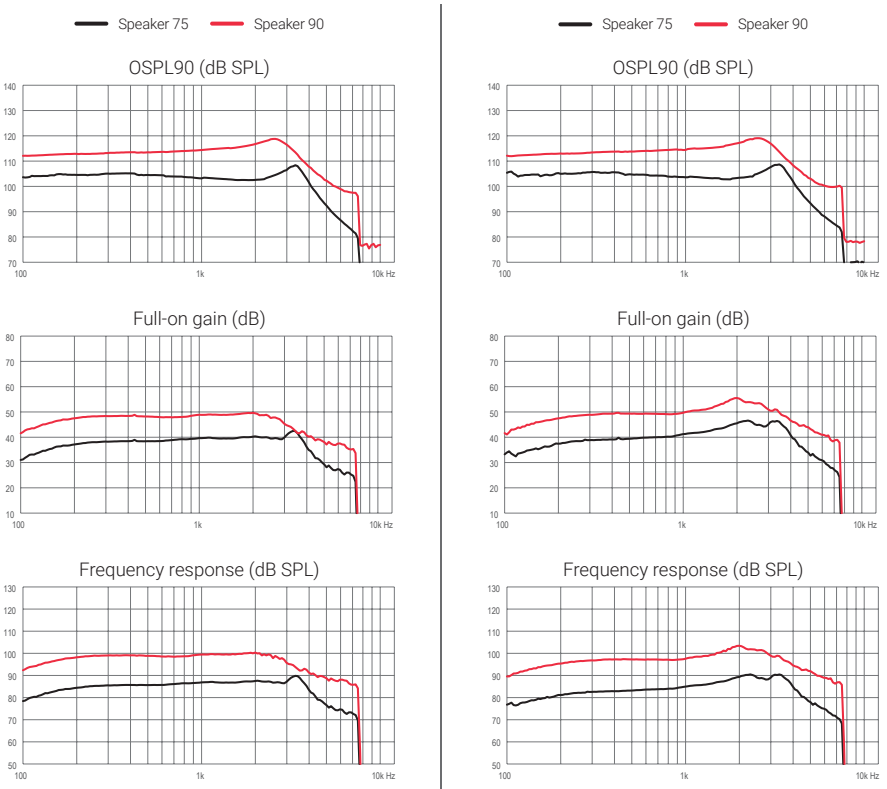
2CC Coupler

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.



	IIC		CIC	
	Speaker 75	Speaker 90	Speaker 75	Speaker 90
OSPL90, Peak (dB SPL)	108	119	109	119
OSPL90, 1600 Hz (dB SPL)	103	115	103	116
OSPL90, HFA (dB SPL)	103	116	104	116
Full-on gain, Peak (dB)[1]	43	50	47	56
Full-on gain, 1600 Hz (dB)[1]	40	49	43	53
Full-on gain, HFA (dB)[1]	40	49	43	52
Reference test gain (dB)	27	39	27	40
Frequency range (Hz)	100-7500	100-7500	100-7500	100-7500
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<2	<2	<2	<2
Total harmonic distortion (Input 65 dB SPL), 1600 Hz (%)	<2	<2	<2	<2
Equivalent input noise level, Omni (dB SPL)	19	19	19	19
Battery consumption, Typical (mA)[2]	1.6	2.3	1.6	2.0
Battery consumption, Quiescent (mA)[2]	1.6	1.6	1.5	1.6
Battery life, artificial measurement, hours[3]	60	45	65	50
Expected battery life, hours (battery size 10 – IEC PR70)[4]	55-60	50-55	50-60	40-55

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) Battery current is measured according to IEC 60118-0:1983/AMD1:1994 §7.11, IEC 60118-0:2015 §7.7 and ANSI S3.22:2014 §6.13 after a settling time of minimum 3 minutes.
3) Based on the standardised battery consumption measurement (e.g. IEC 60118-0:1983/AMD1:1994). The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.
4) Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels.

Notes

Notes

276018UK / 2025.05.26 / v2

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Bernafon is part of the Demant Group.

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