

# PHILIPS

# HearLink

## Specification Guide

# HearLink 7020 | 3020 BTE SP & BTE UP

HearLink BTE SP and BTE UP are the most powerful hearing instruments of the Philips HearLink family, suitable for severe to profound hearing losses. They include a telecoil, a single and double Program Button, and come with an undamped earhook. Philips HearLink is a Made for iPhone® hearing instrument and supports Bluetooth® Low Energy (BLE) at 2.4 GHz. Powered by SoundMap technology, the HearLink BTE SP and BTE UP have our most advanced features.

### Super Power



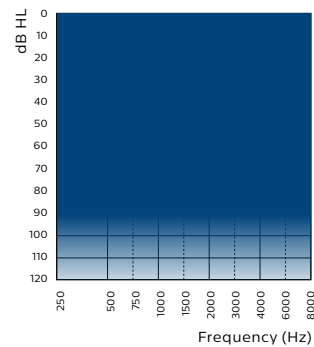
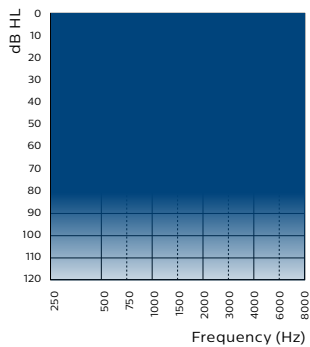
HL 7020 | 3020 BTE SP  
(HEB7021, HEB3021)

### Ultra Power



HL 7020 | 3020 BTE UP  
(HEB7022, HEB3022)

Made for  
iPhone | iPad | iPod



### Technical features

- 2.4 GHz Bluetooth® Low Energy
- NFMI (near-field magnetic induction)
- 13 size battery for BTE SP
- 675 size battery for BTE UP
- Double and single Program Button
- Multicolor LED indicator
- Telecoil
- Hydrophobic coating
- IP68 rated

### Accessories & options

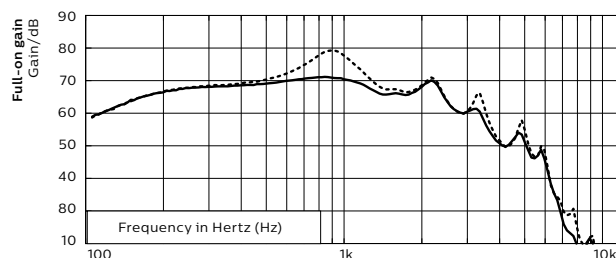
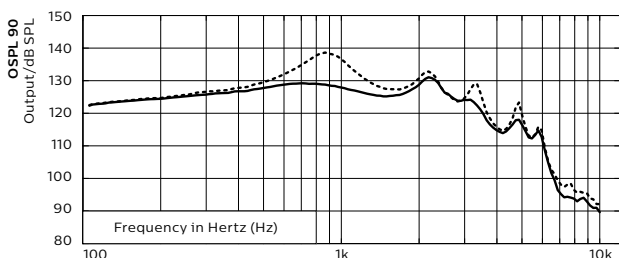
- Philips HearLink app (for iOS and Android™)
- Remote Control
- TV Adapter
- FittingLINK 3.0 (wireless programming interface)
- AudioClip
- Direct Audio Input (DAI) adapter 1000
- FM adapter 10
- Tamper-resistant battery drawer
- Damping element

# HearLink 7020 | 3020

HEB7021, HEB3021, BTE SP

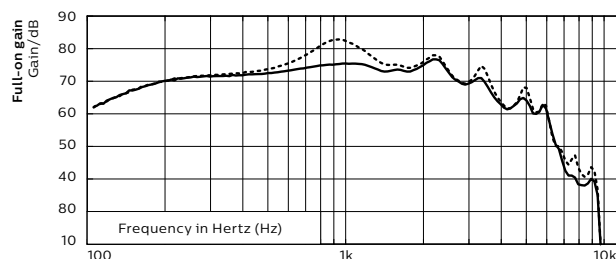
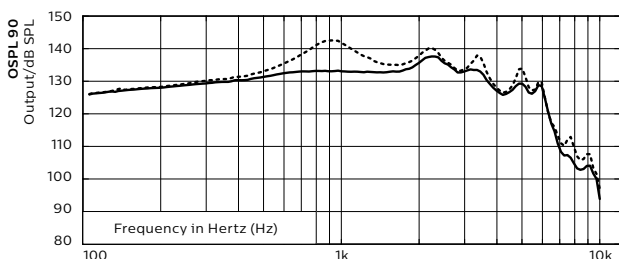
— Earhook damped    ... Earhook undamped

## 2cc coupler



	Earhook damped	Earhook undamped
OSPL90, peak (dB SPL)	131	139*
OSPL90, 1600 Hz (dB SPL)	125	127
OSPL90, HFA (dB SPL)	127	130
Full-on gain, peak (dB)	71	79
Full-on gain, 1600 Hz (dB)	66	67
Full-on gain, HFA (dB)	67	70
Reference test gain (dB)	50	53
Quiescent current (mA)	1.4	1.4
Operating current (mA)	2.2	2.5
Distortion 500/800/1600 Hz (%)	<2/3/<2	4/<2/<2
Frequency range (Hz)	100-6300	100-6100
Equivalent input noise <sup>1)</sup> (dB SPL)	18	19
Telecoil 1 mA/m 1000 Hz, IEC (dB SPL)	105	110
Telecoil HFA SPLITS (dB SPL)	111	115

## Ear simulator



	Earhook damped	Earhook undamped
OSPL90, peak (dB SPL)	138*	143*
OSPL90, 1600 Hz (dB SPL)	133*	135*
OSPL90, HFA (dB SPL)	134*	138*
Full-on gain, peak (dB)	77	83
Full-on gain, 1600 Hz (dB)	74	75
Full-on gain, HFA (dB)	74	77
Reference test gain (dB)	58	61
Quiescent current (mA)	1.4	1.4
Operating current (mA)	1.6	1.6
Battery size	13	13
Distortion 500/800/1600 Hz (%)	<2/4/3	4/<2/<2
Frequency range (Hz)	100-6700	100-6500
Equivalent input noise <sup>1)</sup> (dB SPL)	17	18
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	107	109

<sup>1)</sup> Technical data measured with expansion, corresponding to the test box measurement settings.

"2cc" refers to a coupler according to IEC 60318-5:2006. "Ear simulator" refers to a coupler according to IEC 60318-4:2010. Applied versions: IEC 60118-0 /A1:1994, IEC 60118-1 /A1:1998, IEC 60118-7: 2005, ANSI S3.22: 2014, IEC 60118-0:2015

Full-on gain is measured with the gain control of the hearing aid 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.

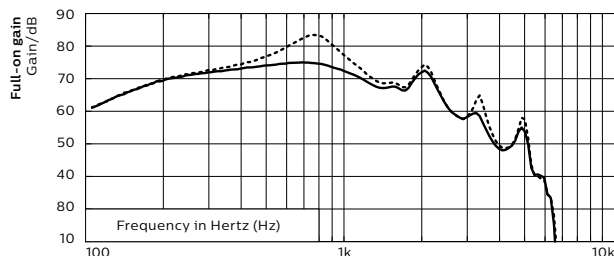
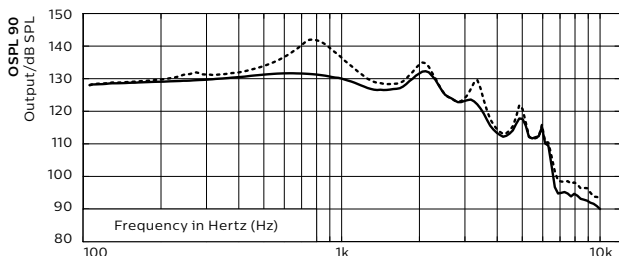
\* Special care should be taken when fitting and using a hearing instrument with maximum sound pressure capability in excess of 132 dB SPL (IEC 60318-4) since there may be a risk of impairing the remaining hearing of the hearing instrument user.

# HearLink 7020 | 3020

HEB7022, HEB3022, BTE UP

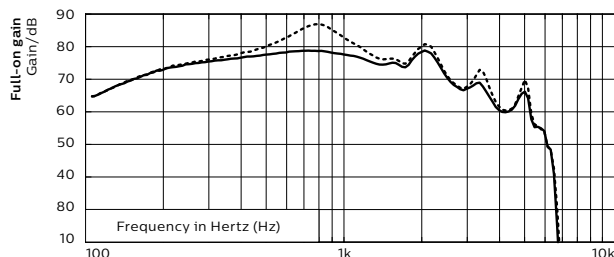
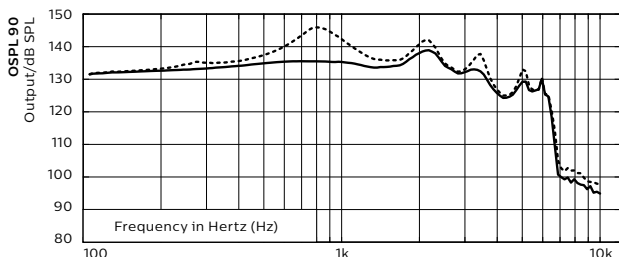
— Earhook damped    ... Earhook undamped

## 2cc coupler



	Earhook damped	Earhook undamped
OSPL90, peak (dB SPL)	132	142*
OSPL90, 1600 Hz (dB SPL)	127	128
OSPL90, HFA (dB SPL)	127	130
Full-on gain, peak (dB)	75	83
Full-on gain, 1600 Hz (dB)	68	69
Full-on gain, HFA (dB)	67	69
Reference test gain (dB)	51	53
Quiescent current (mA)	1.5	1.5
Operating current (mA)	3.6	4.1
Distortion 500/800/1600 Hz (%)	4/4/<2	9/<2/3
Frequency range (Hz)	100-5300	100-5300
Equivalent input noise <sup>1)</sup> (dB SPL)	21	23
Telecoil 1 mA/m 1000 Hz, IEC (dB SPL)	106	110
Telecoil HFA SPLITS (dB SPL)	112	112

## Ear simulator



	Earhook damped	Earhook undamped
OSPL90, peak (dB SPL)	139*	146*
OSPL90, 1600 Hz (dB SPL)	134*	136*
OSPL90, HFA (dB SPL)	134*	138*
Full-on gain, peak (dB)	79	87
Full-on gain, 1600 Hz (dB)	75	76
Full-on gain, HFA (dB)	74	77
Reference test gain (dB)	59	61
Quiescent current (mA)	1.5	1.5
Operating current (mA)	1.8	1.8
Battery size	675	675
Distortion 500/800/1600 Hz (%)	4/6/4	11/<2/3
Frequency range (Hz)	100-6000	100-6000
Equivalent input noise <sup>1)</sup> (dB SPL)	17	19
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	108	110

<sup>1)</sup> Technical data measured with expansion, corresponding to the test box measurement settings.

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# Feature overview

	HearLink 7020	HearLink 3020
<b>SoundMap Amplification</b>		
Adaptive Compress	6 options	–
Phoneme Focus	●	●
Envelope Focus	●	●
Extended Dynamic Range	●	–
Low Frequency Enhancement	●	●
Frequency Lowering	●	●
SoundMap Feedback Canceller	●	●
<b>SoundMap Noise Control</b>		
Directionality		
Multichannel Directionality	Medium	Low
Fixed Directionality	●	●
Omni Directionality	●	●
Noise management		
Noise Reduction	4 options	●
Transition	3 options	–
Wind Noise Reduction	●	●
Soft Noise Reduction	●	●
Transient Noise Reduction	3 options	●
VC step size	2 options	2 options
<b>SoundTie Connectivity and binaural coordination</b>		
2.4 GHz Bluetooth® Low Energy	●	●
NFMI	●	●
Binaural Volume and Program Change	●	●
Binaural Noise Management	●	–
Non-Telephone Ear Control	●	●
<b>Programming options</b>		
General	●	●
Fitting bands	14	10
Environments	13	10
Manual Listening Programs	4	4
Concert	●	–
Data Logging	●	●
Adaptation Manager	●	●

**HearLink 7020|3020 BTE SP and BTE UP instruments can be programmed with HearSuite 2019.2 or higher**

#### Operating conditions

- Temperature: +1 °C to +40 °C (+34 °F to +104 °F)
- Humidity: 5 % to 93 %, non-condensing

#### Storage and transportation conditions

- Temperature and humidity shall not exceed the below limits for extended periods during transportation and storage:
- Temperature: –25 °C to +60 °C (–13 °F to +140 °F)
  - Humidity: 5 % to 93 %, non-condensing



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