PHILIPS

HearLink

Technical data

HearLink 9050 | 7050 | 5050 | 3050

IIC / CIC

Philips HearLink 50 IIC and CIC are suitable for slight to severe hearing loss. The hearing aids include SoundMap 3 featuring our most advanced audiological features specifically designed for these styles. IIC and CIC are discreet hearing aids with the IIC being invisible in most ears. Both styles use disposable batteries.

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

Technical Features

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

Operating 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.

Transportation
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

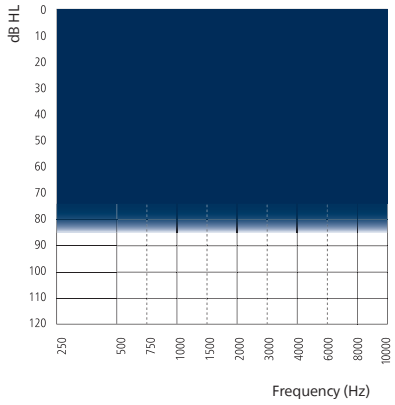
1) Optional for CIC only

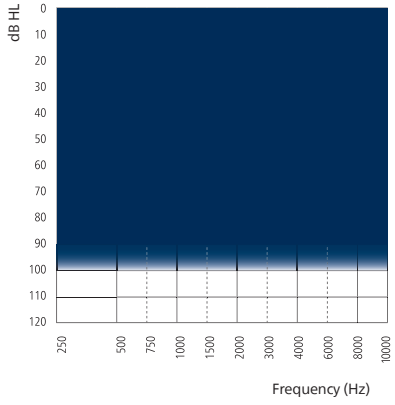
WARNING: No modification of this equipment is allowed.

IP68

Fitting ranges

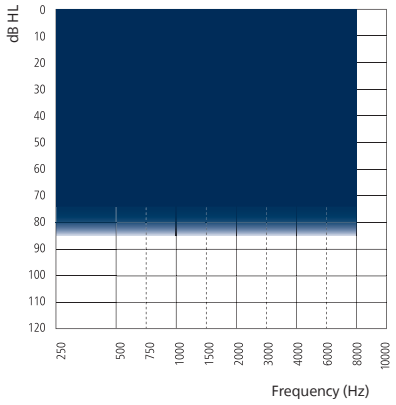
Philips HearLink 9050



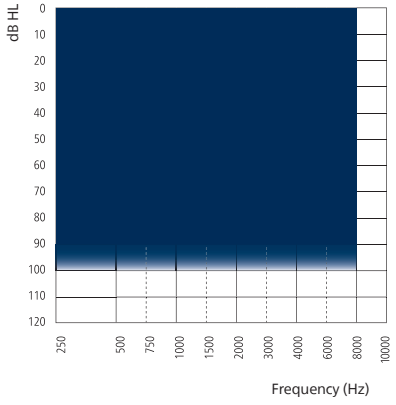


Philips HearLink 7050 | 5050 | 3050

75



90



Feature overview

	HearLink 9050	HearLink 7050	HearLink 5050	HearLink 3050
SoundMap 3 Amplification				
Frequency Bandwidth	10 kHz	8 kHz	8 kHz	8 kHz
Extended Dynamic Range	•	•	—	—
Frequency Lowering	•	•	•	•
Comfort Control	4 options	2 options	—	—
Noise reduction				
AI Noise Reduction	5 options	4 options	3 options	2 options
Speech Clarifier	3 options	2 options	—	—
Transition	4 options	3 options	2 options	1 option
SoundProtect Transient Noise Reduction	6 options	5 options	4 options	2 options
Soft Noise Management	•	•	•	•
Binaural Noise Management[1]	○	○	○	—
Feedback canceller				
Strength control	•	•	•	•
Binaural coordination (NFMI)				
Binaural Volume and Program Change[2]	○	○	○	○
Programming options				
Fitting Bands	24	20	18	14
Environments (optional for CIC)[3]	9	7	7	5
Manual Listening Programs (optional for CIC)[3]	4	4	4	4
HiFi Music Program[3]	○	○	○	○
Airplane Program[3]	○	—	—	—
Data Logging	•	•	•	•
Audible Indicators & Notify Me	•	•	•	•
Adaptation Manager	•	•	•	•
Tinnitus SoundSupport[2]	○	○	○	○

1) Requires NFMI
2) Requires NFMI and push-button
3) Requires push-button

• Default
○ Optional features only available for CIC
— Not included

HearLink 9050 IIC

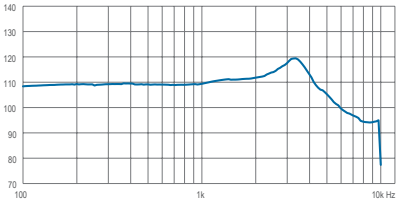
Ear Simulator

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

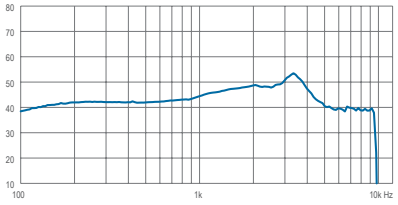
Technical information
Omnidirectional mode is used unless otherwise stated.

Speaker 75

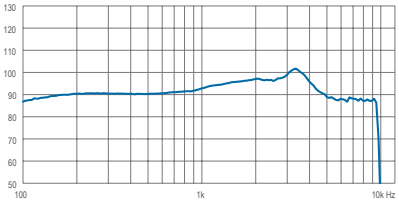
OSPL90 (dB SPL)



Full-on gain (dB)

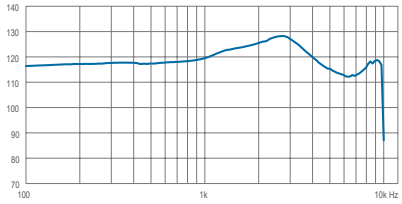


Frequency response (dB SPL)

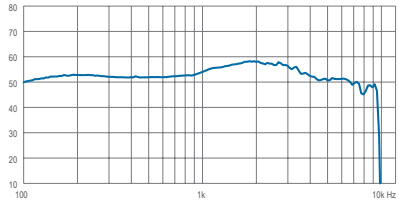


Speaker 90

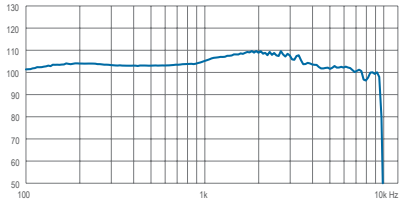
OSPL90 (dB SPL)



Full-on gain (dB)



Frequency response (dB SPL)



	Speaker 75	Speaker 90
OSPL90, Peak (dB SPL)	119	128
OSPL90, 1600 Hz (dB SPL)	111	124
OSPL90, HFA (dB SPL)	111	124
Full-on gain, Peak (dB)[1]	53	58
Full-on gain, 1600 Hz (dB)[1]	47	57
Full-on gain, HFA (dB)[1]	47	56
Reference test gain (dB)	36	49
Frequency range (Hz)	<100-9500	<100-9500
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<3	<3
Total harmonic distortion (Input 70 dB SPL), 1600 Hz (%)	<3	<2
Equivalent input noise level, Omni (dB SPL)	19	17
Battery consumption, Typical (mA)[2]	1.8	1.9
Battery consumption, Quiescent (mA)[2]	1.7	1.8
Battery life, artificial measurement, hours[3]	55	50
Expected battery life, hours (battery size 10 – IEC PR70)[4]	45-55	40-55

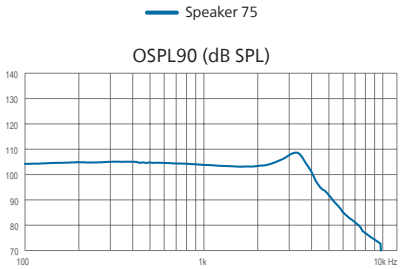
1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.
2) Battery current is measured according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

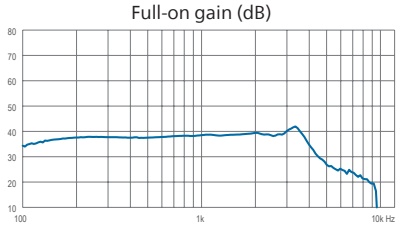
HearLink 9050 IIC

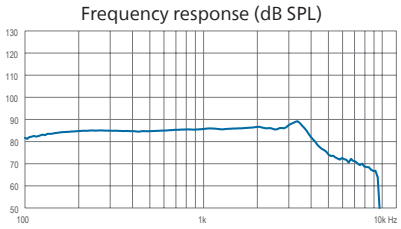
2CC Coupler

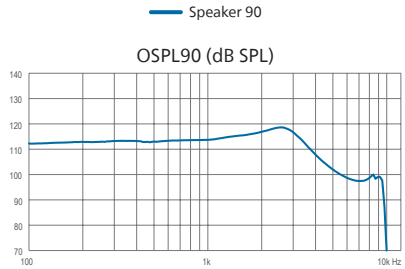
Measured according to ANSI S3.22-2014,
IEC 60118-0:2015 and IEC 60318-5:2006

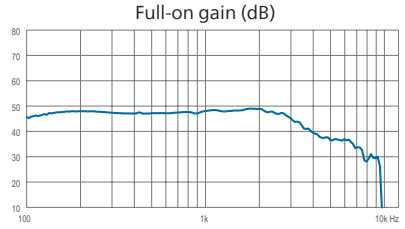
Technical information
Omnidirectional mode is used unless otherwise stated.

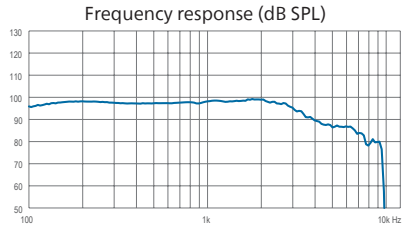












OSPL90, Peak (dB SPL)	109	119
OSPL90, 1600 Hz (dB SPL)	103	116
OSPL90, HFA (dB SPL)	104	116
Full-on gain, Peak (dB)[1]	42	49
Full-on gain, 1600 Hz (dB)[1]	39	48
Full-on gain, HFA (dB)[1]	38	48
Reference test gain (dB)	26	38
Frequency range (Hz)	<100-8300	<100-7700
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<2	<2
Total harmonic distortion (Input 65 dB SPL), 1600 Hz (%)	<2	<2
Equivalent input noise level, Omni (dB SPL)	20	20
Battery consumption, Typical (mA)[2]	1.8	2.4
Battery consumption, Quiescent (mA)[2]	1.7	1.8
Battery life, artificial measurement, hours[3]	55	40
Expected battery life, hours (battery size 10 – IEC PR70)[4]	45-55	40-55

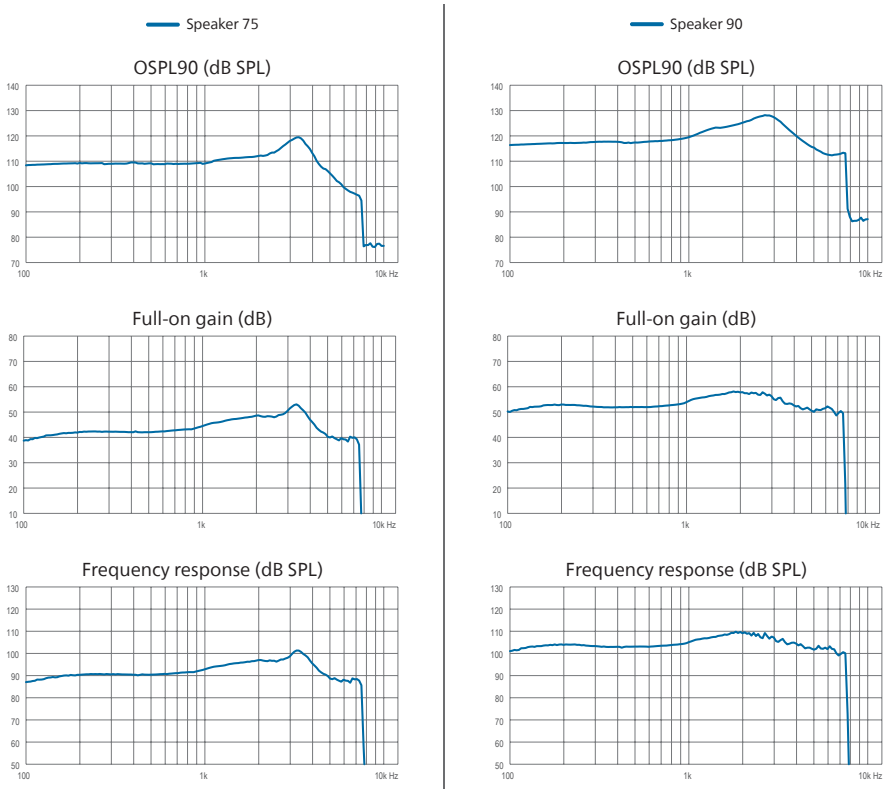
1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB.
This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.
2) Battery current is measured according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

HearLink 7050 | 5050 | 3050 IIC

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.



	Speaker 75	Speaker 90
OSPL90, Peak (dB SPL)	119	128
OSPL90, 1600 Hz (dB SPL)	111	123
OSPL90, HFA (dB SPL)	111	124
Full-on gain, Peak (dB)[1]	53	58
Full-on gain, 1600 Hz (dB)[1]	47	57
Full-on gain, HFA (dB)[1]	47	56
Reference test gain (dB)	36	49
Frequency range (Hz)	<100-7500	<100-7500
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<3	<3
Total harmonic distortion (Input 70 dB SPL), 1600 Hz (%)	<3	<2
Equivalent input noise level, Omni (dB SPL)	19	17
Battery consumption, Typical (mA)[2]	1.8	1.9
Battery consumption, Quiescent (mA)[2]	1.7	1.8
Battery life, artificial measurement, hours[3]	55	50
Expected battery life, hours (battery size 10 – IEC PR70)[4]	45-55	40-55

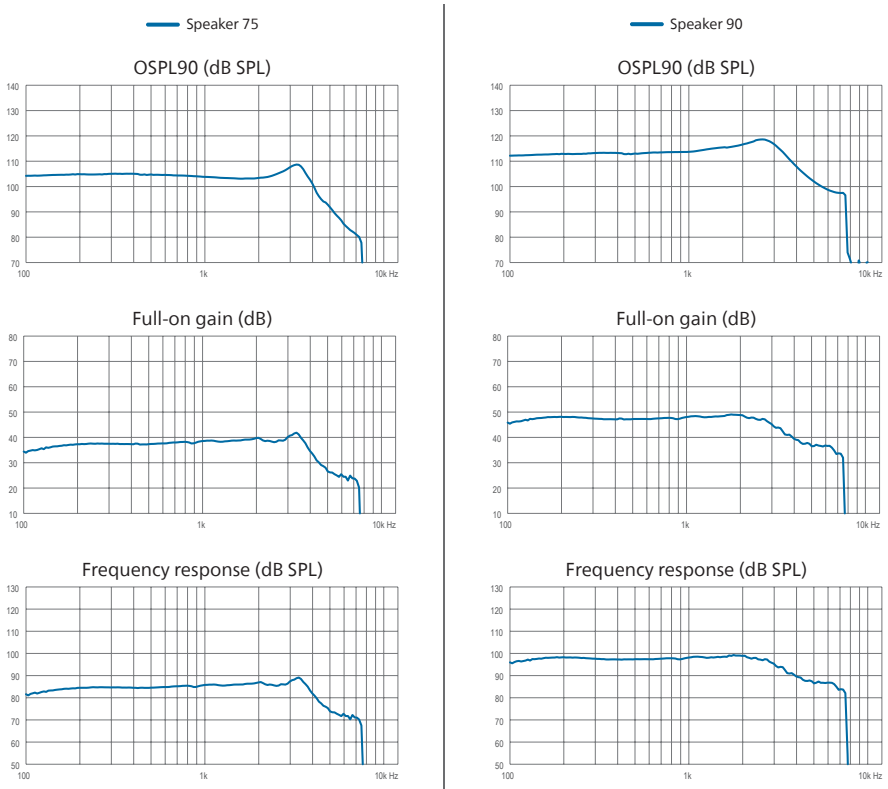
1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.
2) Battery current is measured according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

HearLink 7050 | 5050 | 3050 IIC

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.



	Speaker 75	Speaker 90
OSPL90, Peak (dB SPL)	109	119
OSPL90, 1600 Hz (dB SPL)	103	116
OSPL90, HFA (dB SPL)	104	116
Full-on gain, Peak (dB)[1]	42	49
Full-on gain, 1600 Hz (dB)[1]	39	48
Full-on gain, HFA (dB)[1]	38	48
Reference test gain (dB)	26	38
Frequency range (Hz)	<100-7500	<100-7500
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<2	<2
Total harmonic distortion (Input 65 dB SPL), 1600 Hz (%)	<2	<2
Equivalent input noise level, Omni (dB SPL)	20	20
Battery consumption, Typical (mA)[2]	1.8	2.4
Battery consumption, Quiescent (mA)[2]	1.7	1.8
Battery life, artificial measurement, hours[3]	55	40
Expected battery life, hours (battery size 10 – IEC PR70)[4]	45-55	40-55

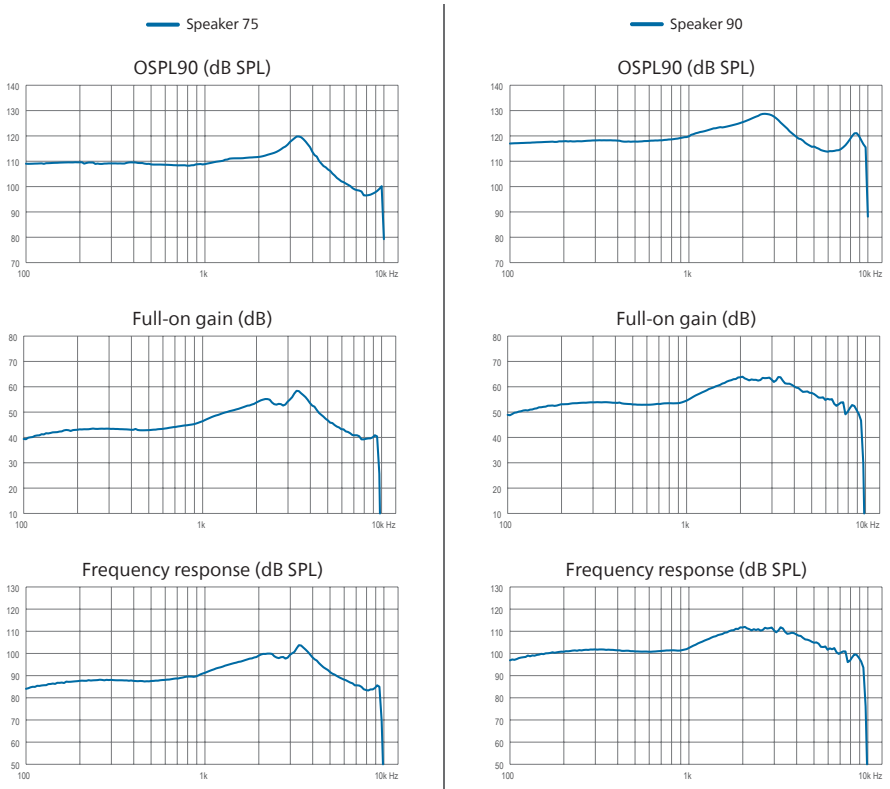
1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB.
This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.
2) Battery current is measured according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

HearLink 9050 CIC

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.



	Speaker 75	Speaker 90
OSPL90, Peak (dB SPL)	120	129
OSPL90, 1600 Hz (dB SPL)	111	124
OSPL90, HFA (dB SPL)	111	124
Full-on gain, Peak (dB)[1]	58	64
Full-on gain, 1600 Hz (dB)[1]	51	61
Full-on gain, HFA (dB)[1]	50	59
Reference test gain (dB)	36	49
Frequency range (Hz)	<100-9500	<100-9500
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<2	<2
Total harmonic distortion (Input 70 dB SPL), 1600 Hz (%)	<3	<2
Equivalent input noise level, Omni (dB SPL)	19	17
Battery consumption, Typical (mA)[2]	1.6	1.8
Battery consumption, Quiescent (mA)[2]	1.6	1.6
Battery life, artificial measurement, hours[3]	65	55
Expected battery life, hours (battery size 10 – IEC PR70)[4]	50-55	30-55

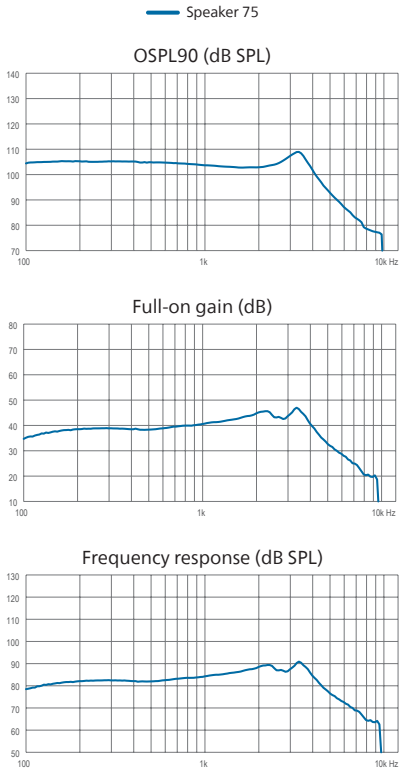
1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.
2) Battery current is measured according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

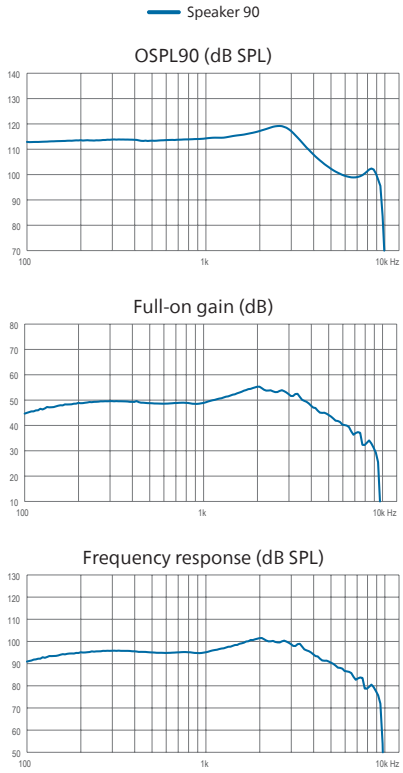
HearLink 9050 CIC

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.





	Speaker 75	Speaker 90
OSPL90, Peak (dB SPL)	109	119
OSPL90, 1600 Hz (dB SPL)	103	116
OSPL90, HFA (dB SPL)	104	116
Full-on gain, Peak (dB)[1]	47	55
Full-on gain, 1600 Hz (dB)[1]	43	53
Full-on gain, HFA (dB)[1]	42	52
Reference test gain (dB)	26	38
Frequency range (Hz)	<100-6900	<100-7500
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<2	<2
Total harmonic distortion (Input 65 dB SPL), 1600 Hz (%)	<2	<2
Equivalent input noise level, Omni (dB SPL)	19	19
Battery consumption, Typical (mA)[2]	1.7	1.9
Battery consumption, Quiescent (mA)[2]	1.6	1.6
Battery life, artificial measurement, hours[3]	60	50
Expected battery life, hours (battery size 10 – IEC PR70)[4]	50-55	30-55

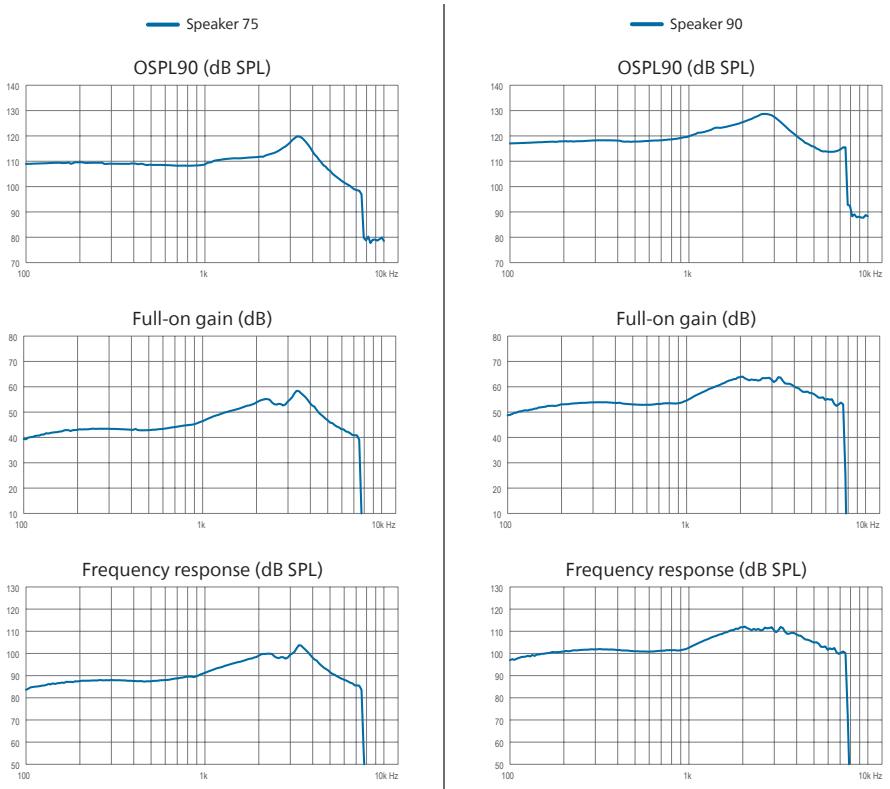
1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB.
This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.
2) Battery current is measured according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

HearLink 7050 | 5050 | 3050 CIC

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.



	Speaker 75	Speaker 90
OSPL90, Peak (dB SPL)	120	129
OSPL90, 1600 Hz (dB SPL)	111	123
OSPL90, HFA (dB SPL)	111	124
Full-on gain, Peak (dB)[1]	58	64
Full-on gain, 1600 Hz (dB)[1]	51	61
Full-on gain, HFA (dB)[1]	50	59
Reference test gain (dB)	36	49
Frequency range (Hz)	<100-7500	<100-7500
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<2	<2
Total harmonic distortion (Input 70 dB SPL), 1600 Hz (%)	<3	<2
Equivalent input noise level, Omni (dB SPL)	19	17
Battery consumption, Typical (mA)[2]	1.6	1.8
Battery consumption, Quiescent (mA)[2]	1.6	1.6
Battery life, artificial measurement, hours[3]	65	55
Expected battery life, hours (battery size 10 – IEC PR70)[4]	50-55	30-55

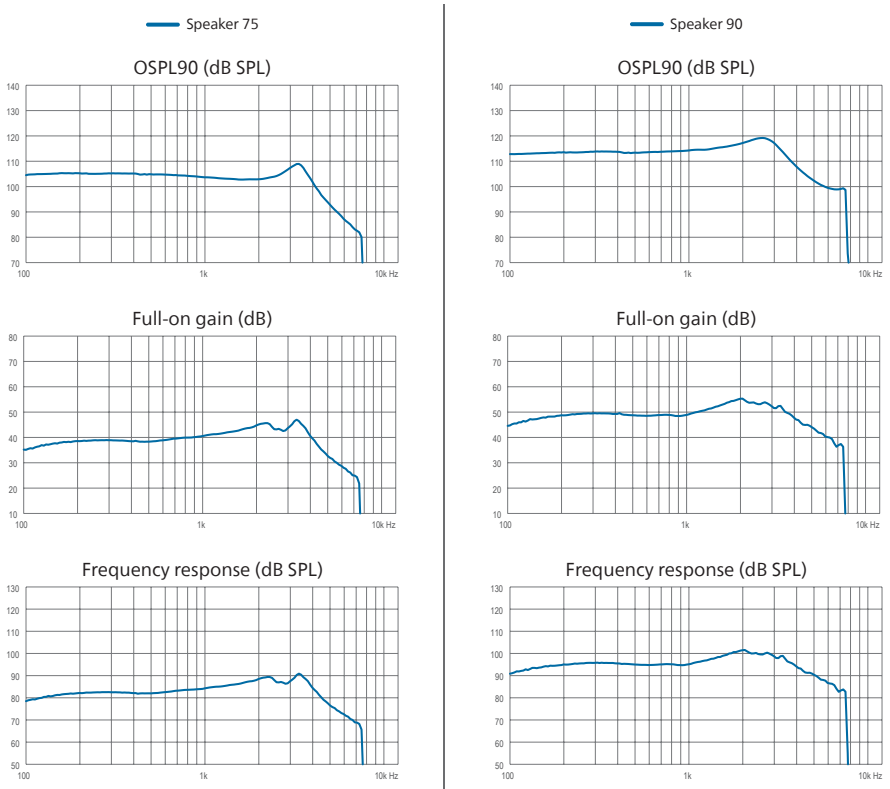
1) Measured with the gain control of the hearing aids set to their full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0:1983+A1:1994 but without influence of feedback.
2) Battery current is measured according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

HearLink 7050 | 5050 | 3050 CIC

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.



OSPL90, Peak (dB SPL)	109	119
OSPL90, 1600 Hz (dB SPL)	103	116
OSPL90, HFA (dB SPL)	104	116
Full-on gain, Peak (dB)[1]	47	55
Full-on gain, 1600 Hz (dB)[1]	43	53
Full-on gain, HFA (dB)[1]	42	52
Reference test gain (dB)	26	38
Frequency range (Hz)	<100-6900	<100-7500
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<2	<2
Total harmonic distortion (Input 65 dB SPL), 1600 Hz (%)	<2	<2
Equivalent input noise level, Omni (dB SPL)	19	19
Battery consumption, Typical (mA)[2]	1.7	1.9
Battery consumption, Quiescent (mA)[2]	1.6	1.6
Battery life, artificial measurement, hours[3]	60	50
Expected battery life, hours (battery size 10 – IEC PR70)[4]	50-55	30-55

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) 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.

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

275850UK / 2025.03.11 / v2

hearingsolutions.philips.com