



## Power BTE Behind-The-Ear

S series **iQ11** **iQ9** **iQ7**



### Features

#### Sound Imaging

##### *S Series iQ 11*

Optimal high-resolution sound imaging with frequency shaping in all 16 channels and 16 bands

##### *S Series iQ 9*

High-resolution sound imaging with frequency shaping in 12 channels and 12 bands

##### *S Series iQ 7*

Frequency shaping in 8 channels and 8 bands

#### Voice iQ

- So fast and smart it reduces noise between syllables of speech
- Two-part algorithm uses dynamic voice identification, coupled with a spectral noise control that calculates appropriate gain on a per channel basis
- Reduces listening effort and mental fatigue
- Active at positive signal-to-noise ratios
- Provides unprecedented sound quality, ease of listening, and intelligibility of speech in noise

#### Acoustic Scene Analyzer

##### *S Series iQ 11*

- Premium 16-channel environmental adaptation with 5 levels of personalization
- AudioScapes include: Machine Noise, Speech in Noise, Wind and Quiet

##### *S Series iQ 9*

- Advanced 12-channel environmental adaptation with 3 levels of personalization
- AudioScapes include: Machine Noise, Speech in Noise, Wind and Quiet

##### *S Series iQ 7*

- Select 8-channel environmental adaptation with 2 levels of personalization
- AudioScapes include: Machine Noise, Wind and Quiet

#### PureWave Feedback Eliminator

- Provides best-in-class feedback cancellation
- When fit open, S Series iQ has the widest fitting range and usable high-frequency bandwidth of any open fit instrument in its class

#### InVision Directionality

- Automatically adapts to ensure optimal performance in all listening situations
- S Series iQ boasts the highest mean DI scores and the lowest operational noise floor, helping patients significantly increase their understanding in noise

#### Sweep™ Technology

An industry first that replaces difficult-to-adjust buttons and dials with an innovative control surface — so patients can make volume and memory adjustments with the sweep or touch of a finger

#### Advanced HydraShield®

Starkey's proprietary moisture protection system that integrates nano-coating, unibody construction and smart component placement making S Series standard hearing instruments 100% resistant to water, humidity, perspiration and corrosion—both inside and out

#### Starkey On Demand

Starkey's leading On Demand options bring the benefits of telehealth to your practice. Designed to elevate your interaction with patients, each one provides an entirely new way for you to provide and deliver care.

##### *T<sup>2</sup> On Demand*

Allows you to make common, standard adjustments to patients' hearing aids over the phone

##### *Audiology On Demand™*

Provides on-call access to an audiologist who can remotely operate your fitting computer, offer suggestions and guidance, and ensure a successful fitting

##### *T<sup>2</sup> Remote*

Adjustment for volume and memory via any cell or touch-tone telephone

#### Live Real Ear Measurement

Provides accurate measures of real-ear output in your patient's ear, in real-ear SPL, while the system evaluates the hearing aid response and matches to your selected target—providing you with the most precise fitting information available

#### Live 3D Speech Mapping

##### *Available on S Series iQ 11*

- Allows hearing professional to verify how the hearing aid processes speech, or any live acoustic input, in real time
- 3D display engages patient and family in fitting process

#### Live Speech Mapping

Verifies hearing aid's processing of speech, or any live acoustic input, in real time

#### Self Check

##### *Available on S Series iQ 11*

Allows hearing professional and patient to perform a diagnostic check of the microphone, circuit and receiver

#### Reminder

##### *Available on S Series iQ 11*

Offers hearing professionals the option of programming audible voice or tone reminders for follow-up appointments and maintenance checks

#### Leisure Listening Memories

TV memory program designed for optimal performance while watching television

##### *Available on S Series iQ 11*

Multiple music genre settings designed to maximize sound quality and listening enjoyment

#### Automatic Telephone Solutions

Automatically detects telephone use and adjusts to the optimal acoustic frequency response for telephone listening

#### Voice Indicators

##### *Available on S Series iQ 11*

Alerts patients to the status of their hearing aid, low battery, memory and telephone modes in their choice of male or female voices in a wide variety of languages

#### Tonal Indicators

Unique tones for memory, low battery, etc.

#### Auto Path

- Automatic fitting routine
- Provides an accurate and efficient first fit

#### Verify Comfort

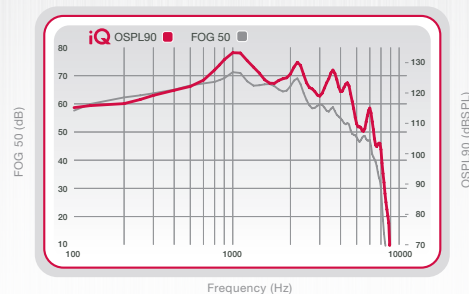
#### In-Situ Audiometry

#### Data Logging

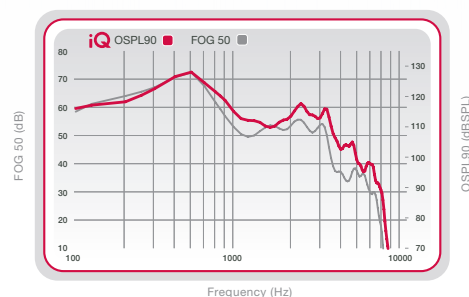
# S Series iQ Power BTE

## ANSI/IEC Data

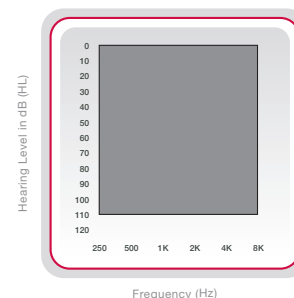
Measurement	Earhook		Thin Tube (Size 3+, Occluded)	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	133	138	129	132
HFA OSPL90 (dB SPL)	127	NA	113	NA
RTF OSPL90 (dB SPL)	NA	131	NA	118
Peak Gain (dB)	70	77	72	75
HFA Full-On Gain (dB)	66	NA	52	NA
RTF Full-On Gain (dB)	NA	74	NA	61
<b>Frequency Range (Hz)</b>	100 - 6000	100 - 6000	100 - 5800	100 - 5800
Reference Test Frequency (kHz)	NA	1.6	NA	1.6
HFA Frequencies (kHz)	1.0, 1.6, 2.5	NA	1.0, 1.6, 2.5	NA
Reference Test Gain (dB)	50	56	36	43
<b>Harmonic Distortion</b>				
500 Hz (%)	<4	<4	<1	<1
800 Hz (%)	<1	<1	<1	<1
1600 Hz (%)	<1	<1	<1	<1
<b>Attack and Release Time (ANSI/IEC) – Test Mode</b>				
Attack Time (ms)	22	5	22	5
Release Time 0.1s (ms)	5-150	5-250	5-150	5-250
Release Time 2.0s (ms)	5-150	5-250	5-150	5-250
<b>Induction Coil Sensitivity</b>				
HFA SPLITS (ANSI) (dB SPL)	112	NA	96	NA
MASL (IEC) (dB SPL)	NA	102	NA	91
ANSI/IEC Battery Current (mA)	1.8	1.8	1.8	1.8
Idle Current (mA)	1.5	1.5	1.5	1.5
<b>Estimated Battery Life for 16-Hour Day</b>				
13 Zinc Air (days)	9-12	9-12	9-12	9-12



OSPL90 (red) and Full-On Gain (gray) curves for the S Series iQ Power BTE with Earhook.



OSPL90 (red) and Full-On Gain (gray) curves for the S Series iQ Power BTE with Thin Tube.



S Series iQ Power BTE fitting range.

### Measurement Conditions and Recommendations

The data for S Series iQ are obtained and performance is expressed according to ANSI S3.22 (2003), ANSI S3.7 (1995), ANSI C63.19 (2007), IEC 60118-7 (2005), IEC 60711 (1981), DIN 45605 (1989), and IEC 60118-0 (1983) with Amendment 1 (1994-01). The Starkey proprietary Real Time Analyzer and the Starkey Automated Design Verification Test System (SADVTS) comprise the basic test equipment. Data may be subject to change with product refinement.

Because of the adaptive signal processing capabilities of S Series iQ hearing instruments, the hearing instrument must be set to test mode to compare the actual performance of the hearing instrument with these specifications. S Series iQ hearing instruments may be set to test mode with Inspire® by reading the hearing aid and selecting the "Hearing Aid Test" screen from the menu on the left side of the Inspire window, then selecting the "Full on Gain" button.