

# BTE

## Behind-The-Ear

### E Series 3



#### Features

##### **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.

##### **Feedback Canceller**

Virtually eliminates annoying feedback

##### **Environmental Adaptation**

Continuously scans the environment and adapts appropriately for Quiet and Noise

##### **Dynamic Directionality**

Automatically adapts to ensure optimal performance in all listening situations

##### **Tonal Indicators**

Unique tones for memory, low battery, etc.

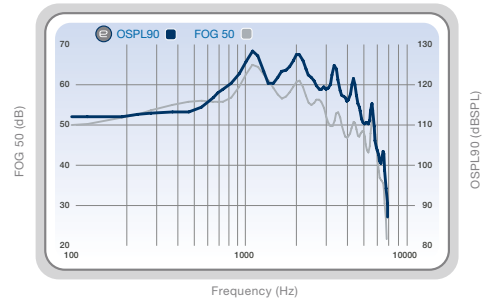
##### **4 Memories Standard**

##### **Induction Coil**

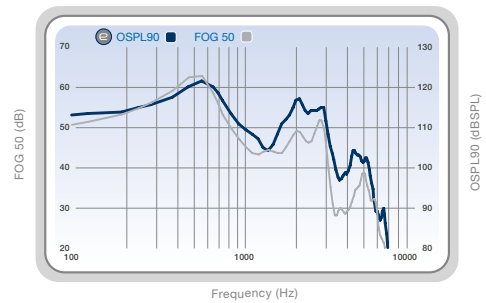
##### **Automatic Coil**

# E Series BTE ANSI/IEC Data

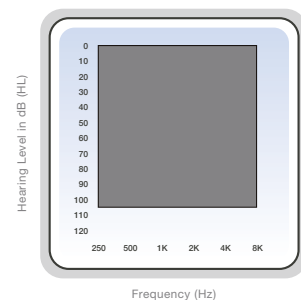
Measurement	Earhook		Thin Tube (Size 3+, Occluded)	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	128	135	122	125
HFA OSPL90 (dB SPL)	123	NA	110	NA
RTF OSPL90 (dB SPL)	NA	130	NA	113
Peak Gain (dB)	65	70	63	66
HFA Full-On Gain (dB)	58	NA	45	NA
RTF Full-On Gain (dB)	NA	66	NA	51
Frequency Range (Hz)	100 - 6600	100 - 7400	100 - 6700	100 - 7600
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)	46	53	33	38
Harmonic Distortion				
500 Hz (%)	<4	<4	<1	<2
800 Hz (%)	<1	<1	<1	<1
1600 Hz (%)	<1	<1	<1	<2
Equivalent Input Noise (dB SPL)	<25	<25	<19	<19
Attack and Release Time (ANSI/IEC) – Test Mode				
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
Induction Coil Sensitivity				
HFA SPLITS (ANSI) (dB SPL)	109	NA	83	NA
MASL (IEC) (dB SPL)	NA	97	NA	87
ANSI/IEC Battery Current (mA)	1.6	1.6	1.6	1.6
Idle Current (mA)	1.5	1.5	1.5	1.5
Estimated Battery Life for 16-Hour Day				
13 Zinc Air (days)	9-12	9-12	9-12	9-12



OSPL90 (blue) and Full-On Gain (gray) curves for the E Series 3 BTE with Earhook.



OSPL90 (blue) and Full-On Gain (gray) curves for the E Series 3 BTE with Thin Tube.



E Series 3 BTE fitting range.

## Measurement Conditions and Recommendations

The data for E Series 3 are obtained and performance is expressed according to ANSI S3.22 (2003), ANSI C63.19 (2007), IEC 60118-7 (2005) 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 E Series 3 hearing instruments, the hearing instrument must be set to test mode to compare the actual performance of the hearing instrument with these specifications. E Series 3 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.