

# ReSound Sparx™

## Product information



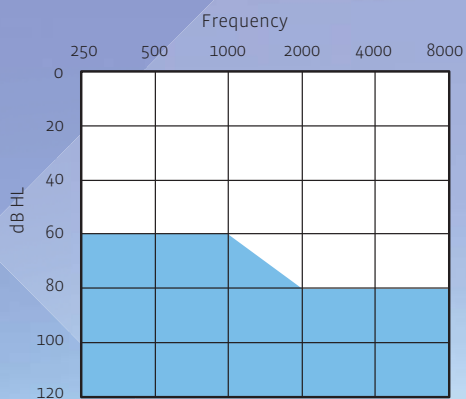
SP90-VI  
Super Power  
BTE

### Product Description

ReSound Sparx™ is a fully digital, super-power BTE hearing instrument that is built on ReSound's legendary hearing instrument technology. It provides the ultimate power as well as superior sound quality.

With ReSound's 6th generation of Digital Feedback Suppression (DFS), ReSound Sparx provides up to 20 dB of additional headroom in order to deliver the most usable gain in the super-power category of hearing instruments.

### Fitting Range



**ReSound North America**  
8001 Bloomington Freeway  
Bloomington, MN 55420-1036  
1-800-248-4327

**ReSound Canada**  
303 Supertest Road  
Downsview, Ontario M3J 2M4  
1-888-737-6863

www.gnresound.com  
customerexperience@gnresound.com

### Key Features

- 9-band Warp™ sound processing
- 6 gain handles in Aventa software
- 6th generation DFS feedback manager
- Choice of Linear or WDRC amplification strategy
- Multi-channel MPO
- Improved receiver for low frequency optimization
- NoiseTracker™ II noise reduction
- Low battery consumption chip technology
- Analog volume control (software configurable)
- Up to 3 customizable programs
- Direct Audio Input
- Telecoil options

### Standard Configuration

- Size 675 battery
- Battery door with integrated On/Off switch
- Push button Program Selector
- Acoustic indicator for program selection
- Low battery warning
- Programmable telecoil
- Standard and pediatric earhooks (filtered and unfiltered)
- 5 Color options

### Fitting Requirements

- Aventa fitting software (v.2.5 or higher)
- CS44 socket cable (4-pin)
- Speedlink, NOAHlink™ or HI-PRO™ interface (Speedlink recommended)

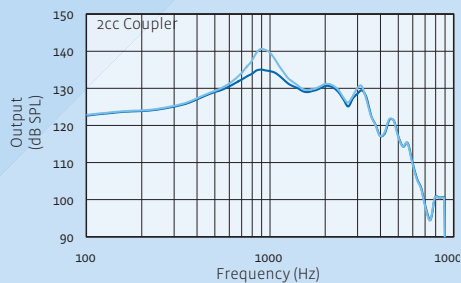
# SP90-VI

## Technical Specifications

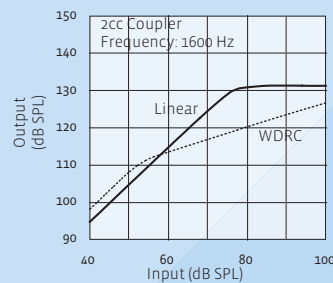
Data in accordance with ANSI S3.22-2003; Supply Voltage 1.3 V.

		Unfiltered earhook 2cc Coupler	Filtered earhook 2cc Coupler
Reference Test Gain (60 dB SPL Input)	HFA	56 dB	55 dB
Full-On Gain (50 dB SPL Input)	Max	81 dB	78 dB
	HFA	73 dB	71 dB
Maximum Output (90 dB SPL Input)	Max	141 dB SPL	135 dB SPL
	HFA	133 dB SPL	131 dB SPL
Total Harmonic Distortion	500 Hz	2.0 %	
	800 Hz	0.6 %	
	1600 Hz	1.0 %	
Telecoil Sensitivity (31.6 mA/m input, RTG)	HFA	116 dB SPL	114 dB SPL
Equivalent Input Noise (without noise reduction)		27 dB SPL	
Frequency Range (DIN 45605)		120–4810 Hz	
Attack Time (ANSI RTG-7 dB)		12 ms	
Release Time (ANSI RTG-7 dB)		70 ms	
Current Drain		2.5 mA	
Typical Battery Life	Battery size 675	252 hrs	

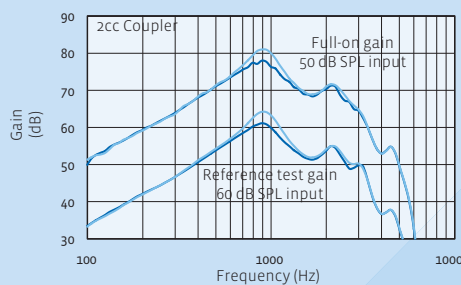
Maximum Output (OSPL 90)



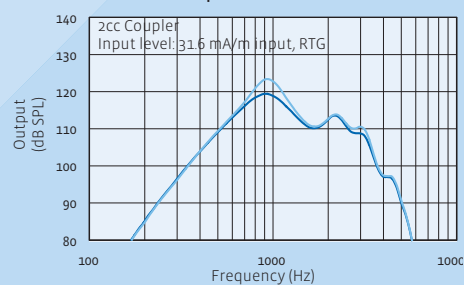
Input/Output Response



Full-On and Reference Test Gain



Telecoil Response



— Unfiltered earhook  
— Filtered earhook

Full-On Gain Parameter Settings—Linear\*

	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	6 kHz
Gain	64	73	77	69	61	60

Full-On Gain Parameter Settings—WDRC\*

	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	6 kHz
G[50]	64	73	77	69	61	60
G[80]	49	54	59	52	47	46

\*Settings in accordance with Aventa fitting software