

SilFlex™ EVO
(vc / plus / vc-plus)

EVO is a line of versatile hearing instruments with state-of-the-art 100% digital signal processing. EVO's 14-band filter with 3-channel WDRC design offers maximum fitting flexibility for typical to complex hearing losses. All models have features that optimize speech intelligibility and hearing comfort in a wide variety of acoustic environments. A unique acclimatization feature of the fitting software uses algorithms to account for the user's previous hearing instrument experience.

EVO custom ITE multi-memory models feature up to 3 memories accessible by push button or, for CIC models, a memory selector wand.

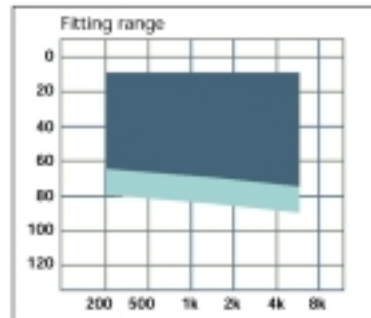


EVO

Special Features

Speech Management System (SMS)

The SMS is designed to suppress unwanted noise and can be easily activated through the software. SMS instantly analyzes the time structure of the signal and reduces gain in the non-speech channels, reacting in only 50 milliseconds. For all EVO models, each of the 3 AGC channels has adjustable SMS settings for maximum flexibility.



For mild to moderately severe hearing losses

Microphone Noise Reduction (MNR)

The MNR system suppresses microphone noise (especially disturbing in quiet environments) by suppressing all signals below a predefined level.

Feedback Manager

A sophisticated series of notch filters provides effective control of feedback when necessary.

Primary Features

- Programmable custom ITE instruments with 100% digital signal processing
- Up to 3 memories, selectable via push-button (dependent upon model)
- 14 Frequency bands (7 adjustable)
- WDRC in 3 channels
- Wide-range AGCo

	Full Shell	Half Shell	Canal	Max Level 120	VC
SilFlex™ Evo	✓	✓	✓	✓	✓
SilFlex™ Evo vc	✓	✓	✓	✓	✓
SilFlex™ Evo +	✓	✓	✓	✓	✓
SilFlex™ Evo vc +	✓	✓	✓		
SilFlex™ Evo Teles	✓	✓			
SilFlex™ Evo Teles vc	✓	✓			

Software

- NOAH® 2 and higher, or standalone (Windows® XP requires NOAH® 3.0 or higher)
- CompuFit3, featuring Dr. Fit (fitting assistant), RFP (read/fit/program) and acclimatization

Model Options

- Single or multiple memories
- Programmable t-coil (full shell, half shell and canal in multi-memory models only)
- User-adjustable, screwset or automatic volume control (CIC models: automatic option only)

Color Options

- Pink, beige, medium brown, caramel brown

Shell Options

- Full shell to CIC



INTERTON

EVO / EVO vc / EVO + / EVO VC+

ANSI Specifications

ANSI S3.22 1996

Peak

	Full Shell	Half Shell	Canal	Mini Canal	CIC
OSPL90 (dB SPL)	115	111	111	107	107
Gain (dB)	55	49	49	43	43

HFA

OSPL90 (dB SPL)	109	107	107	102	102
Gain (dB)	47	42	42	37	37

Frequency Range (Hz)	150-7000	180-7400	180-7400	200-6000	200-6000
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Sensitivity of T-coil

@ 1600 Hz and 1mA/m (dB)	71-86	71-86	71-82	n/a	n/a
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Distortion (THD)

@ 500 Hz (%)	2	2	2	2	2
@ 800 Hz (%)	1	1	1	1	1
@ 1600 Hz (%)	1	1	1	1	1

Equivalent Input Noise (dB)	28	25	25	24	24
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Battery Drain (mA)	0.6	0.6	0.6	0.6	0.6
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Battery Type	13/312	312/10A	312/10A	10A	10A
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Note: All curves show testing with 2 cc coupler

Technical Information

Signal Processor

DSP clock speed	2.80 MHz
Sampling rate	22 kHz
Signal transmission	Resolution 13 bit, with internal resolution up to 30 bit

Bands

14 Overlapping bands with 1/3 octave bandwidth

AGCi (independently programmable in low, middle and high frequency channels)

Compression ratio (CR)	1:1 to 4:1, in 13 steps
Attack time (AT)	Channel dependent, in 3 steps
Release time (RT)	Channel dependent, in 3 steps
Threshold kneepoint (TK)	42 to 66 dB, in 3 dB steps

AGCo (Canal)

106 to 85 dB SPL, in 3 dB steps (range varies by model)

Microphone Noise Reduction (MNR)

Reduction of microphone noise (off, on)	0, -18 dB
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Speech Management System (SMS)

Reduction of noise in five steps (off, low, medium, high, max)	0, -3, -6, -9, -12 dB
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Feedback Manager (adjustable notch filter)

Center frequency	1.2 to 6.5 kHz
Amplitude	1.5 dB steps, down to -12 dB

Volume Control Option (user-adjustable or screwset only)

Volume adjustment (gain reserve)	0, 6 dB
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