

Gold Series

Silver Series

Bronze Series

VISTA®

Custom

Product Guide - ANSI International



Custom Product Guide



CIC



Mini Canal



Canal



Half Shell



Full Shell

Cosmetics, Performance and Price - The Choice is Yours

Unitron has restructured our Vista Custom Product Series to provide you and your clients with a range of flexible custom choices. Vista's three new tiers - Gold, Silver and Bronze - simplify ordering and allow you to customize Vista to meet your clients' audiological, cosmetic and budgetary needs. The new Vista Product Series redefines custom hearing aids at Unitron. Choose from Vista's full range of circuits, faceplate styles and pricing which are all supported by Unitron's Unifit Fitting Software for Noah.

Vista Gold Series

- Completely-in-the-canal (CIC) shells provide acoustic and cosmetic excellence
- 3 Class D circuits - Linear D, AGCo D and K-amp - to accommodate most hearing losses
- Wide variety of matrix selections and trimmers for fitting flexibility
- Screw-set volume control saves space and supports successful fittings
- Size 10A or 5A battery options
- Cosmetically appealing, discreet, medium-brown faceplate blends with shadows of the ear

Vista Silver Series

- Variety of audiological flexible circuits including a new and improved K-amp and Output Compression in a Power offering
- Technologically advanced, predominantly Class D circuits for improved battery life
- Higher frequencies offered to fit sloping losses
- One standard trimmer for added value and fitting flexibility
- Majority of circuits available with battery options: 10A, 312, and 13
- Power circuits available in battery options: 312 and 13
- A variety of trimmer and switch options

Vista Bronze Series

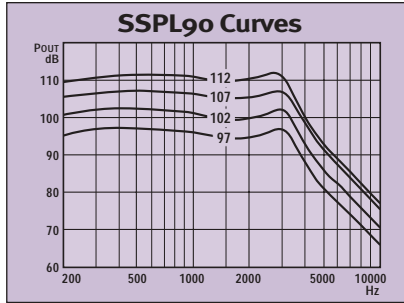
- Economical pricing makes the Bronze series affordable
- Six circuits to solve most fitting challenges
- Power circuits available for severe losses
- Battery options for most circuits: 10A, 312, and 13
- Trimmer and switch choices to support fittings

Circuit Linear D

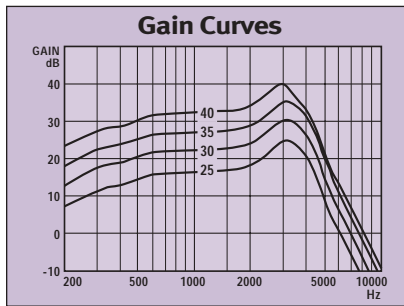
ANSI Technical Data

Frequency Response		
Slope		
10	200-5900 Hz	
20	350-6100 Hz	
Peak Gain		
25-40 dB		
HF-Average Gain		
17-34 dB		
HF-Average Gain at RTP		
16-33 dB		
Peak Output		
97-112 dB		
HF-Average SSPL90		
95-111 dB		
Zinc Air Premium Battery Life		
10A	90-220 h	
5A	60-140 h	
Current Drain		
0.25-0.6 mA		
Equivalent Input Noise		
<31 dB		
Total Harmonic Distortion:		
500 Hz	typical 2%	<8%
800 Hz	typical 2%	<8%
1600 Hz	typical 2%	<8%

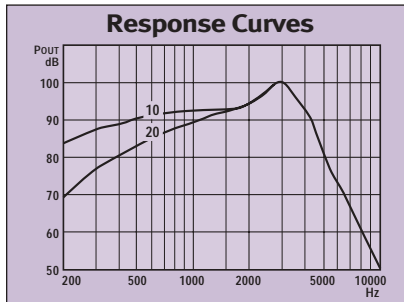
Note:
The Technical Data was generated with
a 2cc Coupler.



Input sound pressure level: 90 dB
Volume Control: full on

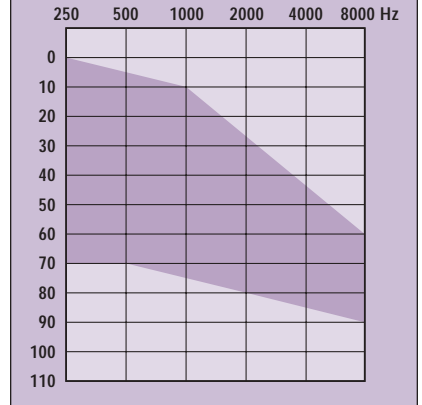


Input sound pressure level: 60 dB
Volume Control: full on



Input sound pressure level: 60 dB
Volume Control: full on
Matrix: 112/40/10, 20

Fitting Guide



The **Linear Class D** circuit provides flexible amplification for uncomplicated mild to moderately-severe hearing losses.

The **Linear D** circuit is suitable for flat to steeply sloping audiogram configurations.

Matrix Selections

Battery Size: 10A / 5A

97/25/10	97/25/20
102/30/10	102/30/20
107/35/10	107/35/20
112/40/10	112/40/20

Trimmers

Battery Size: 10A / 5A

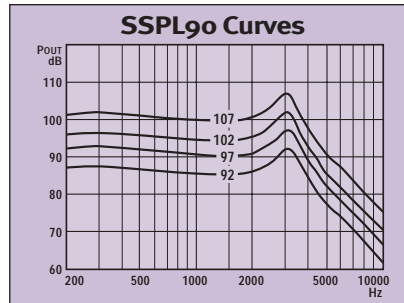
- Low-cut Tone
- High-cut Tone
- MPO Control

Circuit

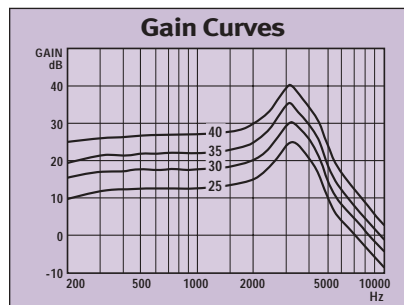
AGCo D (Output Compression)

ANSI Technical Data		
Frequency Response		
Slope		
10	200-7000 Hz	
20	300-8000 Hz	
Peak Gain	25-40 dB	
HF-Average Gain	15-30 dB	
HF-Average Gain at RTP	15-30 dB	
Peak Output	92-107 dB	
HF-Average SSPL90	86-101 dB	
Zinc Air Premium Battery Life		
10A	110-185 h	
5A	70-120 h	
Current Drain	0.3-0.5 mA	
Equivalent Input Noise	<32 dB	
Total Harmonic Distortion:		
500 Hz	typical 1%	<8%
800 Hz	typical 1%	<8%
1600 Hz	typical 1%	<8%
Attack Time	<70 ms	
Release Time	80 ms	
Compression Ratio	8:1	

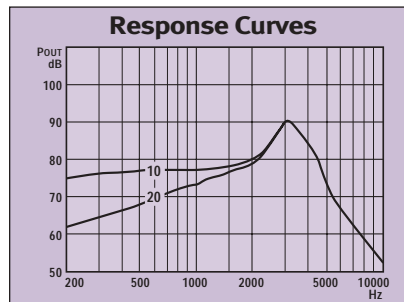
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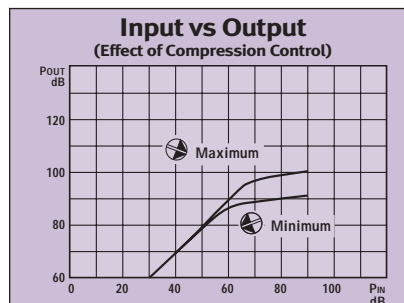
Input sound pressure level: 90 dB
Volume Control: full on



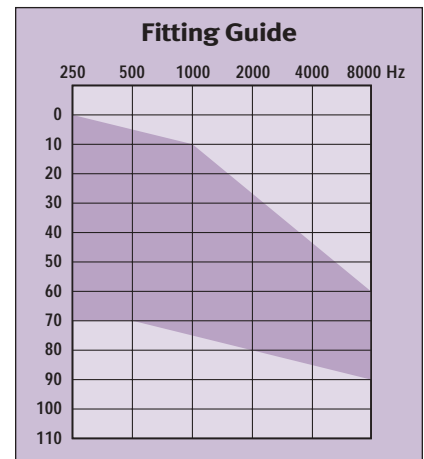
Input sound pressure level: 50 dB
Volume Control: full on



Input sound pressure level: 50 dB
Volume Control: full on
Matrix: 107/40/10, 20



Input signal: 2000 Hz
Volume Control: full on



The **AGCo Class D** output compression circuit uses advanced "Average Detection" circuitry to minimize "compression pumping." The result is clean output limiting and excellent sound quality.

The **AGCo D** circuit is suitable for flat to steeply sloping audiogram configurations.

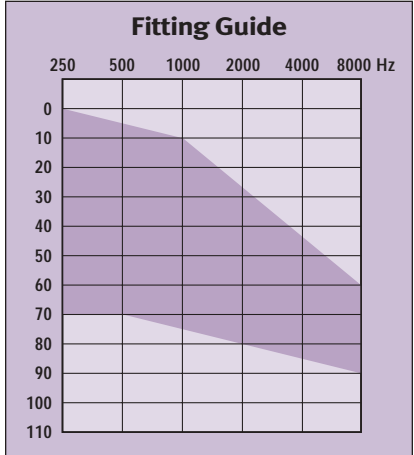
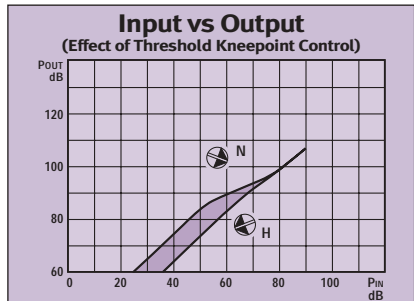
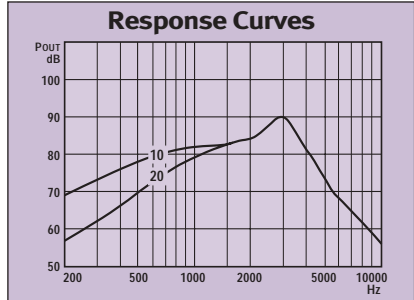
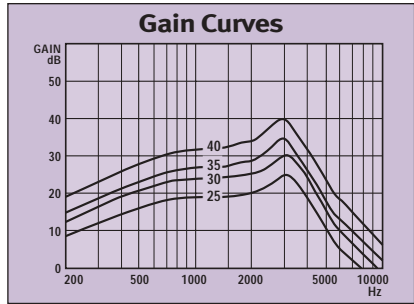
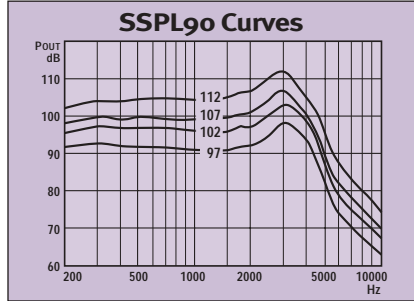
Matrix Selections	
Battery Size: 10A / 5A	
92/25/10	92/25/20
97/30/10	97/30/20
102/35/10	102/35/20
107/40/10	107/40/20

Trimmers
Battery Size: 10A / 5A
Low-cut Tone
High-cut Tone
Compression Control

Circuit K-Amp

ANSI Technical Data		
Frequency Response		
Slope		
10	200-7200 Hz	
20	350-7600 Hz	
Peak Gain		
	25-40 dB	
HF-Average Gain		
	18-35 dB	
HF-Average Gain at RTP		
	18-35 dB	
Peak Output		
	97-112 dB	
HF-Average SSPL90		
	91-107 dB	
Zinc Air Premium Battery Life		
10A	225-185 h	
5A	80-115 h	
Current Drain		
	0.3-0.45 mA	
Equivalent Input Noise		
	<31 dB	
Total Harmonic Distortion:		
500 Hz	typical 1%	<8%
800 Hz	typical 1%	<8%
1600 Hz	typical 1%	<8%
Attack Time		
	<30 ms	
Release Time		
	600 ms	
Compression Ratio		
	2:1	

Note:
The Technical Data was generated with a 2cc Coupler.



The **K-Amp** Class D input compression, WDRC, TILL circuit provides flexible amplification to help re-establish normal loudness growth for mild to moderately-severe sensorineural hearing losses.

The **K-Amp** circuit is suitable for flat to steeply sloping audiogram configurations.

Matrix Selections	
Battery Size: 10A / 5A	
97/25/10	97/25/20
102/30/10	102/30/20
107/35/10	107/35/20
112/40/10	112/40/20

Trimmers	
Battery Size: 10A / 5A	
Low-cut Tone	
High-cut Tone	
Threshold Kneepoint Control	

Features and Options

Circuits

Linear D
AGCo D
K-Amp

Controls

Low-cut Tone - White
High-cut Tone - Yellow
Maximum Power Output (MPO) - Red
Threshold Kneepoint Control - Black
Compression Control - Black

Faceplate Colors

Medium Brown (Standard)
Beige

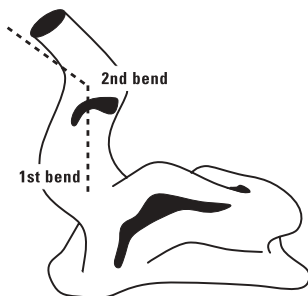
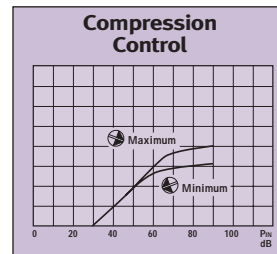
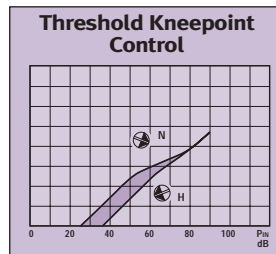
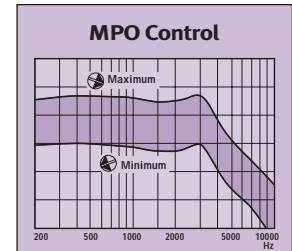
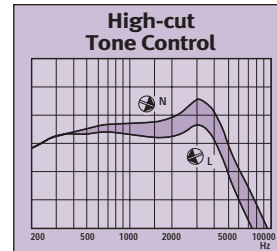
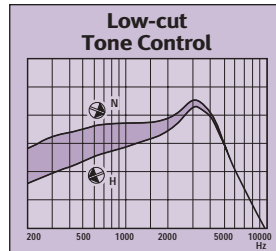
Volume Control

Screw Set Volume Control - Blue
(Standard)

Battery Sizes

10A (Standard)
5A

Trimmers and Switches

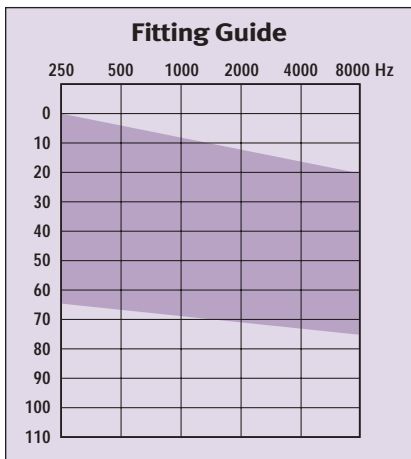
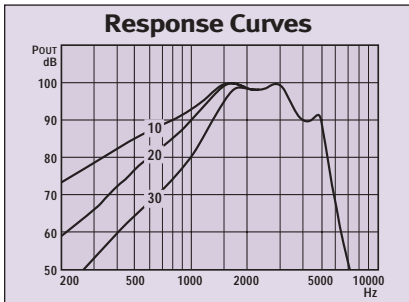
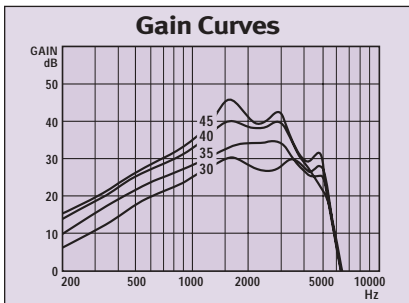
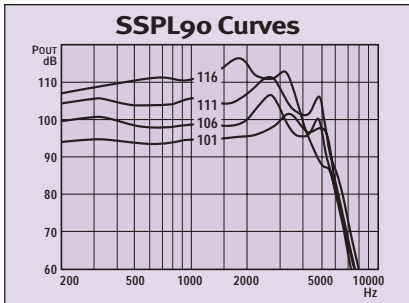


Precaution:

Proper fitting of these hearing aids requires the taking of a deep-canal impression. Hearing health professionals should not attempt this type of fitting unless they have developed the necessary skills to take this type of impression safely.

Circuit Linear A

ANSI Technical Data		
Frequency Response		
Slope		
10	300-5600 Hz	
20	500-5800 Hz	
30	700-5800 Hz	
Peak Gain	30-45 dB	
HF-Average Gain	20-40 dB	
HF-Average Gain at RTP	17-36 dB	
Peak Output	101-116 dB	
HF-Average SSPL90	96-113 dB	
Zinc Air Premium Battery Life		
13	230-330 h	
312	110-160 h	
10A	55-80 h	
Current Drain	0.7-1.0 mA	
Equivalent Input Noise	<31 dB	
Total Harmonic Distortion:		
500 Hz	typical 2%	<8%
800 Hz	typical 2%	<8%
1600 Hz	typical 2%	<8%



The **Linear Class A** circuit provides amplification for uncomplicated mild to moderately-severe hearing losses.

The **Linear Class A** circuit is suitable for flat to steeply sloping audiogram configurations.

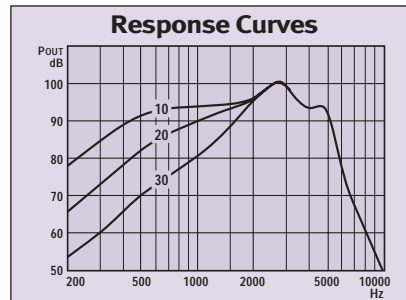
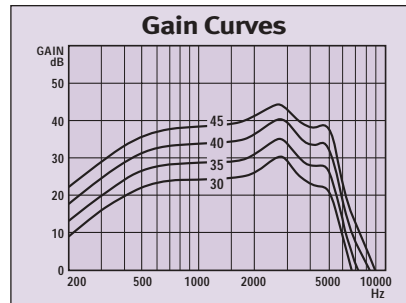
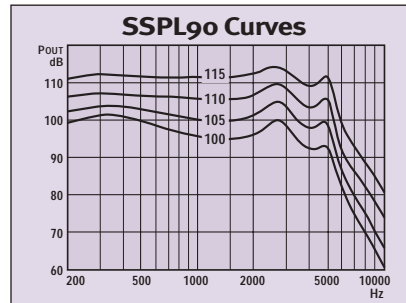
Matrix Selections		
Battery Size: 10A / 312	13	
101/30/10	101/30/20	101/30/30
106/35/10	106/35/20	106/35/30
111/40/10	111/40/20	111/40/30
116/45/10	116/45/20	116/45/30

Trimmers and Switches	
Battery Size: 10A	312 / 13
Active Low-cut Tone (STD)	
High-cut Tone	
MPO Control	
Gain Control	
Telecoil with Switch	
Noise Suppressor Switch	

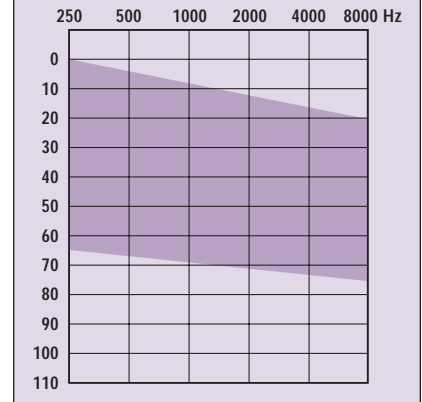
Circuit Linear D

ANSI Technical Data

Frequency Response		
Slope		
10	200-6100 Hz	
20	350-6300 Hz	
30	500-6800 Hz	
Peak Gain	30-45 dB	
HF-Average Gain	21-40 dB	
HF-Average Gain at RTP	19-34 dB	
Peak Output	100-115 dB	
HF-Average SSPL90	97-112 dB	
Zinc Air Premium Battery Life		
13	270-330 h	
312	130-160 h	
10A	65-80 h	
Current Drain	0.7-0.85 mA	
Equivalent Input Noise	<31 dB	
Total Harmonic Distortion:		
500 Hz	typical 2%	<8%
800 Hz	typical 2%	<8%
1600 Hz	typical 2%	<8%



Fitting Guide



The **Linear Class D** circuit provides flexible amplification for uncomplicated mild to moderately-severe hearing losses.

The **Linear Class D** circuit is suitable for flat to steeply sloping audiogram configurations.

Matrix Selections

Battery Size: 10A / 312		13
100/30/10	100/30/20	100/30/30
105/35/10	105/35/20	105/35/30
110/40/10	110/40/20	110/40/30
115/45/10	115/45/20	115/45/30

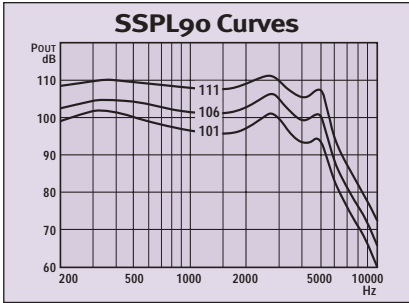
Trimmers and Switches

Battery Size: 10A	312 / 13
Active Low-cut Tone (STD)	
High-cut Tone	
MPO Control*	
Gain Control	
Telecoil with Switch	
Noise Suppressor Switch	

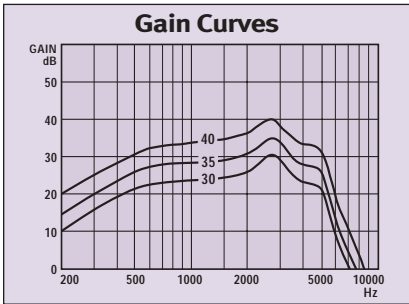
* not available with Matrix Selections: 100/30/10, 20,

Circuit AGCo D (Output Compression)

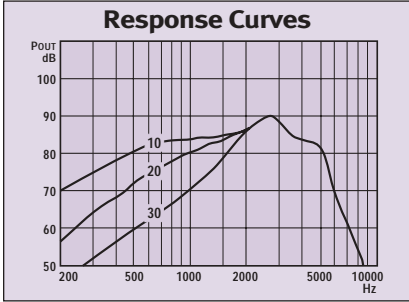
ANSI Technical Data	
Frequency Response	
Slope	
10	200-6300 Hz
20	350-6600 Hz
30	500-7200 Hz
Peak Gain	30-40 dB
HF-Average Gain	20-36 dB
HF-Average Gain at RTP	20-36 dB
Peak Output	101-111 dB
HF-Average SSPL90	97-109 dB
Zinc Air Premium Battery Life	
13	210-330 h
312	110-160 h
10A	55-80 h
Current Drain	0.7-1.0 mA
Equivalent Input Noise	<31 dB
Total Harmonic Distortion:	
500 Hz	typical 2% <8%
800 Hz	typical 2% <8%
1600 Hz	typical 2% <8%
Attack Time	<15 ms
Release Time	45 ms
Compression Ratio	10:1



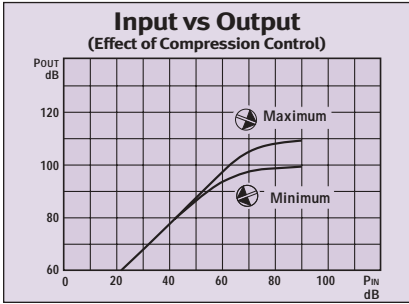
Input sound pressure level: 90 dB
Volume Control: full on



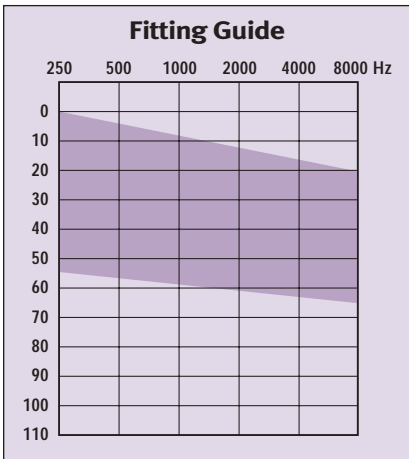
Input sound pressure level: 50 dB
Volume Control: full on



Input sound pressure level: 50 dB
Volume Control: full on
Matrix: 111/40/10, 20, 30



Input signal: 2000 Hz
Volume Control: full on



The **AGCo Class D** output compression circuit provides flexible amplification for mild to moderate hearing losses with restricted dynamic ranges. Suitable for previous Linear Class D users who are being introduced to the “cleaner” sound of compression. VC affects gain, not MPO.

The **AGCo D** circuit is suitable for flat to steeply sloping audiogram configurations.

Matrix Selections		
Battery Size: 10A / 312 / 13		
101/30/10	101/30/20	101/30/30
106/35/10	106/35/20	106/35/30
111/40/10	111/40/20	111/40/30

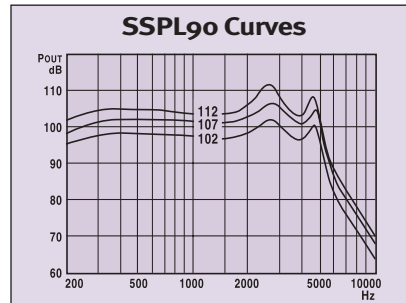
Trimppers and Switches	
Battery Size: 10A	312/ 13
Active Low-cut Tone (STD)	
High-cut Tone	
Compression Control*	
Gain Control	
Telecoil with Switch	
Noise Suppressor Switch	

* not available with Matrix Selections: 101/30/10, 20,

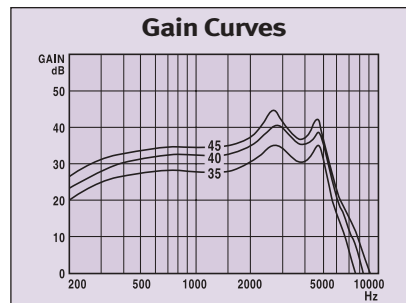
Circuit

WDRC D (Wide Dynamic Range Compression)

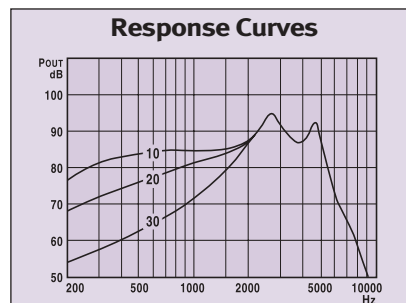
ANSI Technical Data	
Frequency Response	
Slope	
10	200-6700 Hz
20	350-6900 Hz
30	500-7000 Hz
Peak Gain	35-45 dB
HF-Average Gain	25-38 dB
HF-Average Gain at RTP	25-38 dB
Peak Output	102-112 dB
HF-Average SSPL90	96-106 dB
Zinc Air Premium Battery Life	
13	330-575 h
312	155-275 h
10A	80-135 h
Current Drain	0.4-0.7 mA
Equivalent Input Noise	<31 dB
Total Harmonic Distortion:	
500 Hz	typical 2% <8%
800 Hz	typical 2% <8%
1600 Hz	typical 2% <8%
Attack Time	<150 ms
Release Time	400 ms
Compression Ratio	2:1



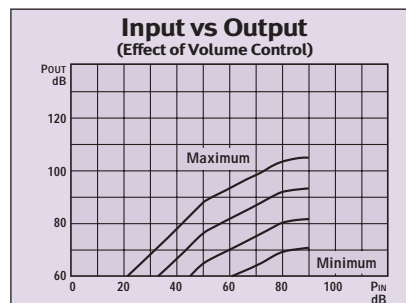
Input sound pressure level: 90 dB
Volume Control: full on



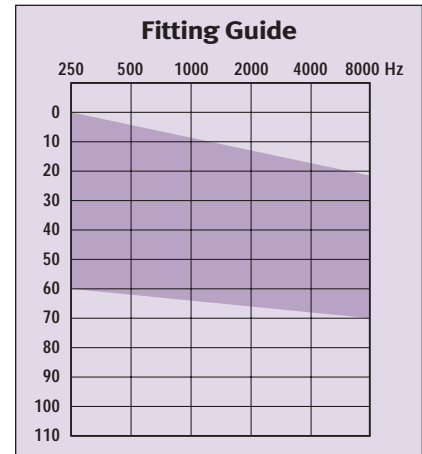
Input sound pressure level: 50 dB
Volume Control: full on



Input sound pressure level: 50 dB
Volume Control: full on
Matrix: 112/45/10, 20, 30



Input signal: 2000 Hz
Volume Control: as shown



The **WDRC Class D** input compression circuit provides flexible amplification to help re-establish normal loudness growth for mild to moderate, sensorineural hearing losses.

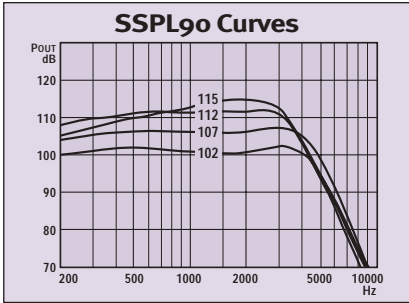
The **WDRC D** circuit is suitable for flat to steeply sloping audiogram configurations.

Matrix Selections		
Battery Size: 10A / 312 / 13		
102/35/10	102/35/20	102/35/30
107/40/10	107/40/20	107/40/30
112/45/10	112/45/20	112/45/30

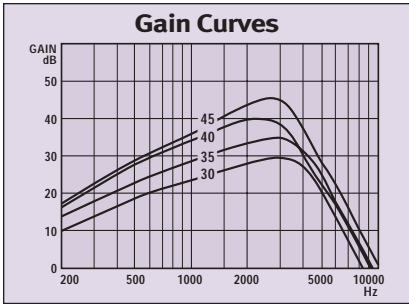
Trimmers and Switches	
Battery Size: 10A	312 / 13
Low-cut Tone (STD)	
MPO Control	
Threshold Kneepoint Control	
High-cut Tone	
Gain Control	
Telecoil with Switch	
Noise Suppressor Switch	

Circuit K-Amp

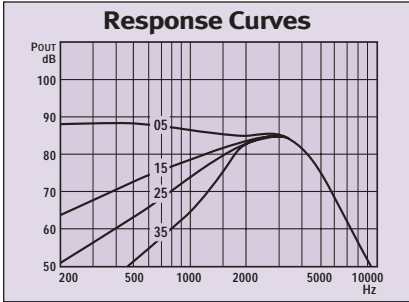
ANSI Technical Data		
Frequency Response		
Slope		
05		100-6400 Hz
15		200-7000 Hz
25		400-7300 Hz
35		600-8000 Hz
Peak Gain		30-45 dB
HF-Average Gain		21-44 dB
HF-Average Gain at RTP		21-44 dB
Peak Output		102-115 dB
HF-Average SSPL90		101-114 dB
Zinc Air Premium Battery Life		
13		290-750 h
312		140-365 h
10A		70-185 h
Current Drain		0.3-0.8 mA
Equivalent Input Noise		<32 dB
Total Harmonic Distortion:		
500 Hz	typical 1%	<8%
800 Hz	typical 1%	<8%
1600 Hz	typical 1%	<8%
Attack Time		<50 ms
Release Time		500 ms
Compression Ratio		2.5:1



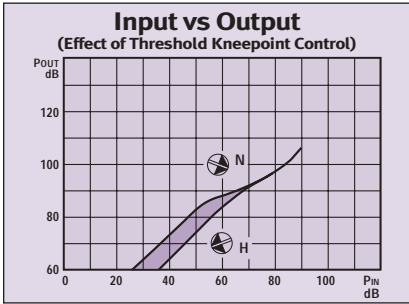
Input sound pressure level: 90 dB
Volume Control: full on



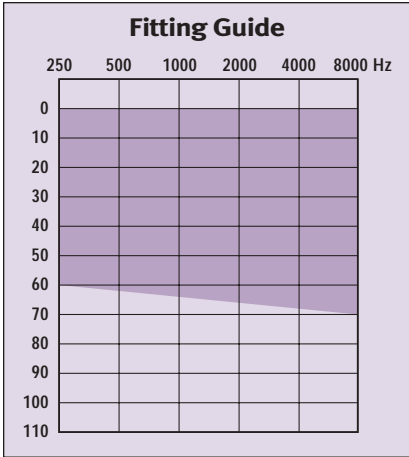
Input sound pressure level: 50 dB
Volume Control: full on



Input sound pressure level: 50 dB
Volume Control: full on
Matrix: 107/35/05, 15, 25, 35



Input signal: 2000 Hz
Volume Control: Full on



The **K-Amp** Class D input compression, WDRC, TILL circuit provides flexible amplification to help re-establish normal loudness growth for mild to moderate sensorineural hearing losses.

The **K-Amp** circuit is suitable for reverse to steeply sloping audiogram configurations.

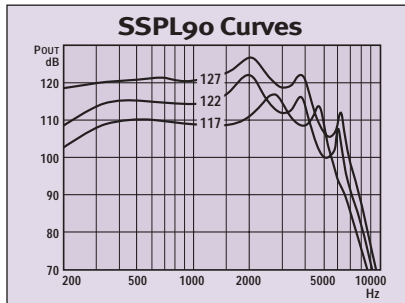
Matrix Selections			
Battery Size:			
10A	312	13	
102/30/05	102/30/15	102/30/25	102/30/35
107/35/05	107/35/15	107/35/25	107/35/35
112/40/05	112/40/15	112/40/25	112/40/35
115/45/05	115/45/15	115/45/25	115/45/35

Trimmers and Switches	
Battery Size: 10A	312 / 13
Threshold Kneepoint Control (STD)	
Low-cut Tone	
High-cut Tone	
Gain Control	
High Boost Control*	
Loudness Boost Control	
Compression Ratio Control	
Telecoil with Switch	
Noise Suppressor Switch	
Loudness Boost Switch	

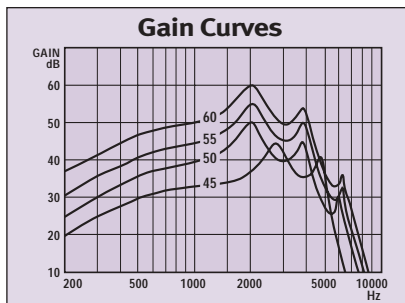
* High Boost Control N/A with 115/45/05, 15, 25, 35

Circuit Linear Power D

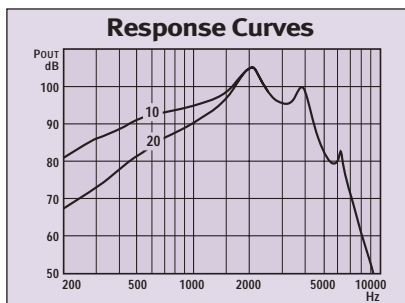
ANSI Technical Data		
Frequency Response		
Slope		
10	200-6500 Hz	
20	350-6700 Hz	
Peak Gain	45-60 dB	
HF-Average Gain	35-53 dB	
HF-Average Gain at RTP	34-45 dB	
Peak Output	117-127 dB	
HF-Average SSPL90	111-122 dB	
Zinc Air Premium Battery Life		
13	230-460 h	
312	110-220 h	
Current Drain	0.5-1.0 mA	
Equivalent Input Noise	<27 dB	
Total Harmonic Distortion:		
500 Hz	typical 2%	<8%
800 Hz	typical 2%	<8%
1600 Hz	typical 2%	<8%



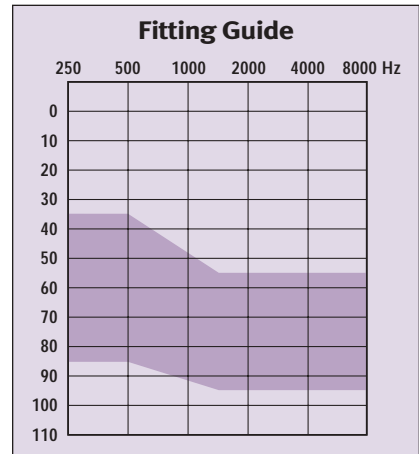
Input sound pressure level: 90 dB
Volume Control: full on



Input sound pressure level: 50 dB
Volume Control: full on



Input sound pressure level: 50 dB
Volume Control: full on
Matrix: 127/55/10, 20



The **Linear Power Class D** circuit provides flexible amplification for uncomplicated moderately-severe to severe hearing losses.

The **Linear Power D** circuit is suitable for flat to steeply sloping audiogram configurations.

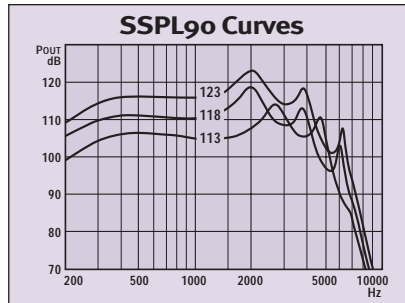
Matrix Selections	
Battery Size: 312	13
117/45/10	117/45/20
122/50/10	122/50/20
122/55/10	122/55/20
127/55/10	127/55/20
127/60/10	127/60/20

Trimmers and Switches
Battery Size: 312 / 13
Active Low-cut Tone (STD)
High-cut Tone
MPO Control
Telecoil with Switch
Noise Suppressor Switch

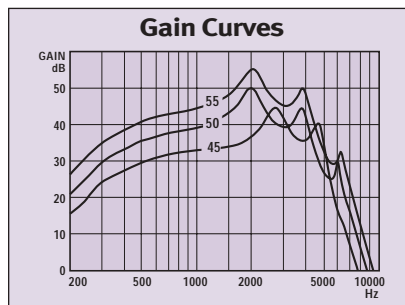
Circuit AGCo Power D (Output Compression)

ANSI Technical Data

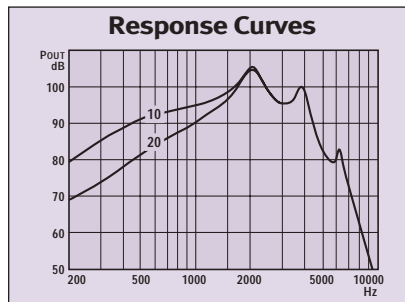
Frequency Response		
Slope		
10		200-6600 Hz
20		350-6800 Hz
Peak Gain		
		45-55 dB
HF-Average Gain		
		35-48 dB
HF-Average Gain at RTP		
		35-48 dB
Peak Output		
		113-123 dB
HF-Average SSPL90		
		108-118 dB
Zinc Air Premium Battery Life		
13		190-385 h
312		90-185 h
Current Drain		
		0.6-1.2 mA
Equivalent Input Noise		
		<27 dB
Total Harmonic Distortion:		
500 Hz	typical 2%	<8%
800 Hz	typical 2%	<8%
1600 Hz	typical 2%	<8%
Attack Time		
		<20 ms
Release Time		
		70 ms
Compression Ratio		
		10:1



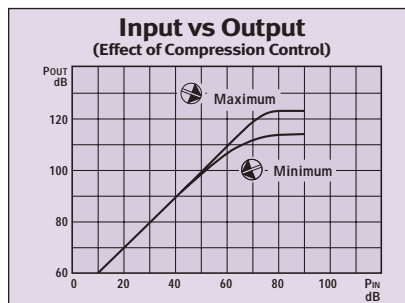
Input sound pressure level: 90 dB
Volume Control: full on



Input sound pressure level: 50 dB
Volume Control: full on

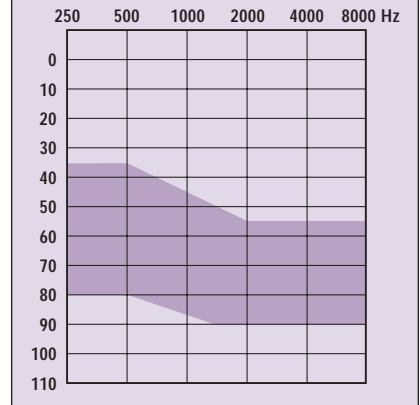


Input sound pressure level: 50 dB
Volume Control: full on
Matrix: 123/55/10, 20



Input signal: 2000 Hz
Volume Control: full on

Fitting Guide



The **AGCo Power Class D** output compression circuit provides flexible amplification for uncomplicated moderately-severe to severe hearing losses with restricted dynamic ranges. Suitable for previous Linear Class D users who are being introduced to the “cleaner” sound of compression. VC affects gain, not MPO.

The **AGCo Power D** circuit is suitable for flat to steeply sloping audiogram configurations.

Matrix Selections

Battery Size: 312	13
113/45/10	113/45/20
118/50/10	118/50/20
118/55/10	118/55/20
123/50/10	123/50/20
123/55/10	123/55/20

Trimmers and Switches

- Battery Size: 312 / 13**
- Active Low-cut Tone (STD)
 - High-cut Tone
 - Compression Control
 - Telecoil with Switch
 - Noise Suppressor Switch

Features and Options

Circuits

- | | |
|----------|----------------|
| Linear A | K-Amp |
| Linear D | Linear Power D |
| AGCo D | AGCo Power D |
| WDRC D | |

Controls

- Active Low-cut Tone - White
- Low-cut Tone - White
- High-cut Tone - Yellow
- Maximum Power Output (MPO) - Red
- Gain Control - Green
- Compression Control - Black
- Compression Ratio Control - Pink
- Threshold Kneepoint Control - Black
- High Boost Control - Purple
- Loudness Boost Control - Orange

Switches

- Telecoil Switch
- Noise Suppressor Switch
- Loudness Boost Switch

Volume Controls

- Screw Set Volume Control - Blue
- Raised Volume Control Cap

Battery Sizes

- 10A
- 312
- 13

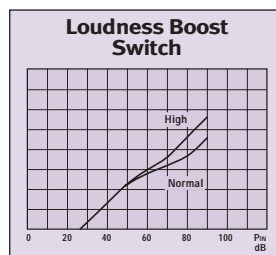
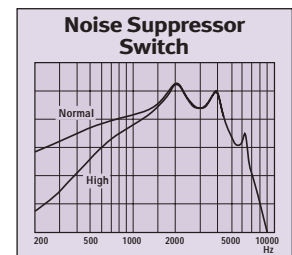
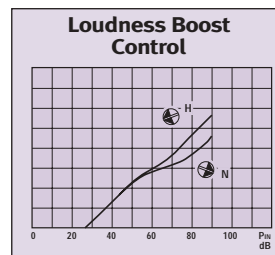
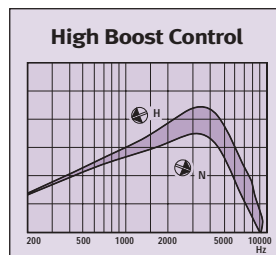
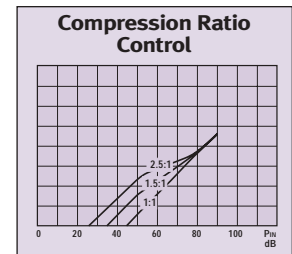
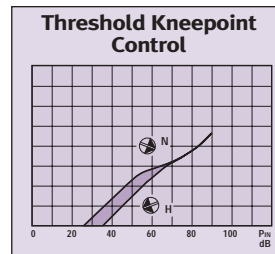
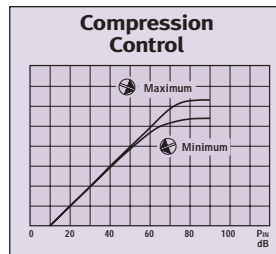
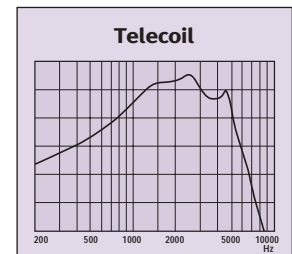
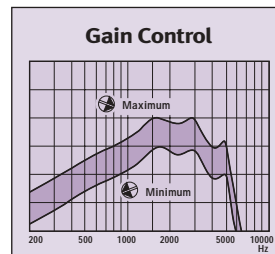
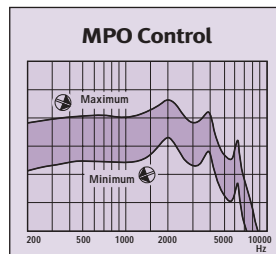
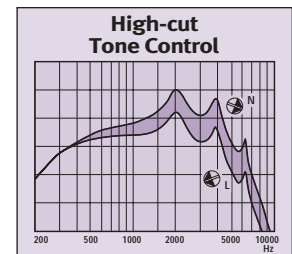
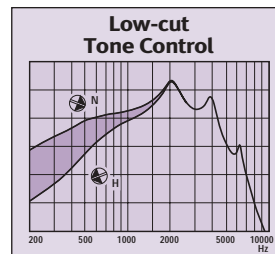
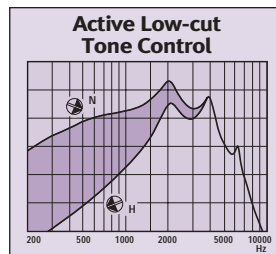
VC Sizes

- Screw-set Volume Control - CIC Faceplate
- 4 mm VC - Faceplate with 312 size battery
- 6 mm VC - Faceplate with 13 size battery

Faceplate Colours

- Beige (Standard)
- Pink
- Light Brown
- Dark Brown

Trimmers and Switches



Circuit Linear A

ANSI Technical Data

Frequency Response

Slope	
10	200-5800 Hz
20	400-5800 Hz
30	650-6300 Hz

Peak Gain	30-40 dB
HF-Average Gain	22-37 dB
HF-Average Gain at RTP	21-31 dB
Peak Output	101-111 dB
HF-Average SSPL90	98-108 dB

Zinc Air Premium Battery Life

13	230-380 h
312	110-185 h
10A	55-95 h

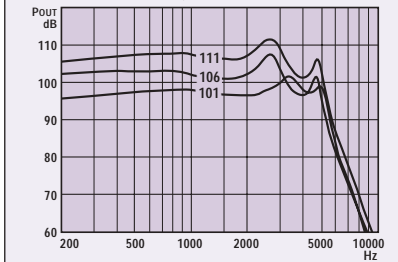
Current Drain	0.6-1.0 mA
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Equivalent Input Noise	<31 dB
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Total Harmonic Distortion:

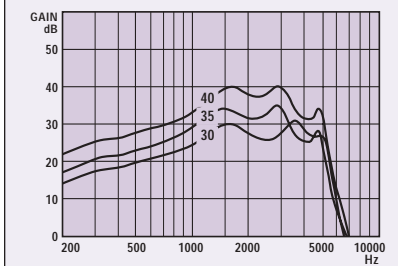
500 Hz	typical 2%	<8%
800 Hz	typical 2%	<8%
1600 Hz	typical 2%	<8%

SSPL90 Curves



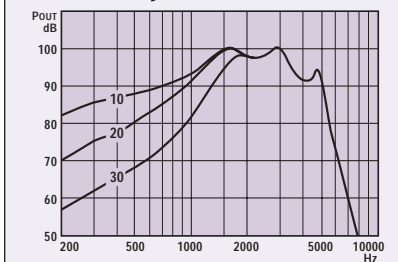
Input sound pressure level: 90 dB
Volume Control: full on

Gain Curves



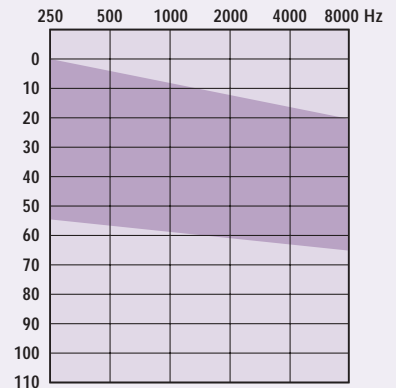
Input sound pressure level: 60 dB
Volume Control: full on

Response Curves



Input sound pressure level: 60 dB
Volume Control: full on
Matrix: 111/40/10, 20, 30

Fitting Guide



The **Linear Class A** circuit provides flexible amplification for uncomplicated mild to moderately-severe hearing losses.

The **Linear Class A** circuit is suitable for flat to steeply sloping audiogram configurations.

Matrix Selections

Battery Size: 10A / 312 / 13

101/30/10	101/30/20	101/30/30
106/35/10	106/35/20	106/35/30
111/40/10	111/40/20	111/40/30

Trimmers and Switches

Battery Size: 10A 312 / 13

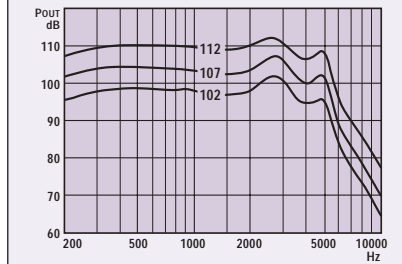
- Low-cut Tone
- High-cut Tone
- MPO Control
- Telecoil with Switch
- Noise Suppressor Switch

Circuit Linear D

ANSI Technical Data

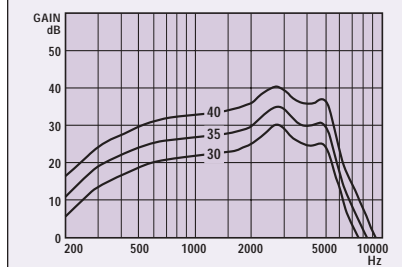
Frequency Response		
Slope		
10	200-6700 Hz	
20	300-7000 Hz	
30	550-7600 Hz	
Peak Gain	30-40 dB	
HF-Average Gain	22-35 dB	
HF-Average Gain at RTP	20-32 dB	
Peak Output	102-112 dB	
HF-Average SSPL90	99-110 dB	
Zinc Air Premium Battery Life		
13	460-765 h	
312	220-365 h	
10A	110-185 h	
Current Drain	0.3-0.5 mA	
Equivalent Input Noise	<31 dB	
Total Harmonic Distortion:		
500 Hz	typical 2%	<8%
800 Hz	typical 2%	<8%
1600 Hz	typical 2%	<8%

SSPL90 Curves



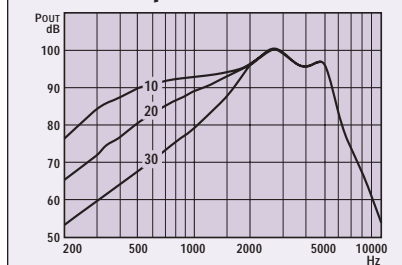
Input sound pressure level: 90 dB
Volume Control: full on

Gain Curves



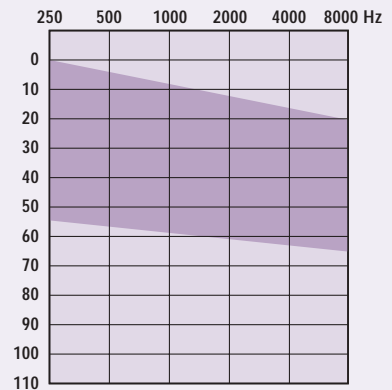
Input sound pressure level: 60 dB
Volume Control: full on

Response Curves



Input sound pressure level: 60 dB
Volume Control: full on
Matrix: 112/40/10, 20, 30

Fitting Guide



The **Linear Class D** circuit provides amplification for uncomplicated mild to moderately-severe hearing losses.

The **Linear Class D** circuit is suitable for flat to steeply sloping audiogram configurations.

Matrix Selections

Battery Size: 10A / 312 / 13

102/30/10	102/30/20	102/30/30
107/35/10	107/35/20	107/35/30
112/40/10	112/40/20	112/40/30

Trimmers and Switches

Battery Size: 10A **312 / 13**

- Low-cut Tone
- High-cut Tone
- MPO Control
- Telecoil with Switch
- Noise Suppressor Switch

Circuit

WDRC A (Wide Dynamic Range Compression)

ANSI Technical Data

Frequency Response

Slope	
10	200-6500 Hz
20	350-6600 Hz
30	500-6900 Hz

Peak Gain	35-45 dB
HF-Average Gain	23-36 dB
HF-Average Gain at RTP	23-36 dB
Peak Output	102-112 dB
HF-Average SSPL90	93-104 dB

Zinc Air Premium Battery Life

13	190-575 h
312	95-275 h

Current Drain	0.4-1.2 mA
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Equivalent Input Noise	<32 dB
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Total Harmonic Distortion:

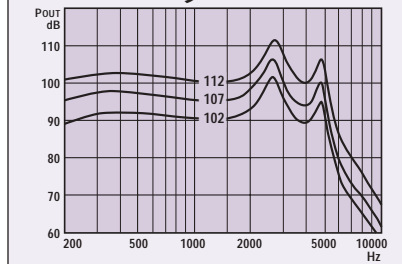
500 Hz	typical 2%	<8%
800 Hz	typical 2%	<8%
1600 Hz	typical 2%	<8%

Attack Time	<10 ms
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Release Time	50 ms
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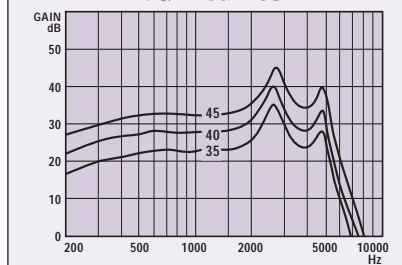
Compression Ratio	2:1
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SSPL90 Curves



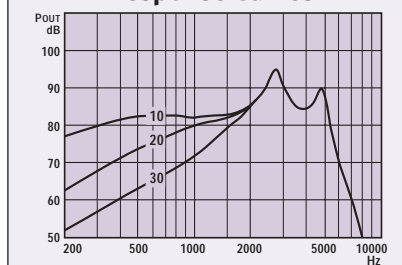
Input sound pressure level: 90 dB
Volume Control: full on

Gain Curves



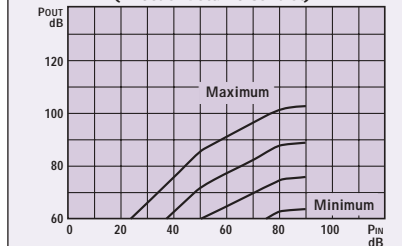
Input sound pressure level: 50 dB
Volume Control: full on

Response Curves



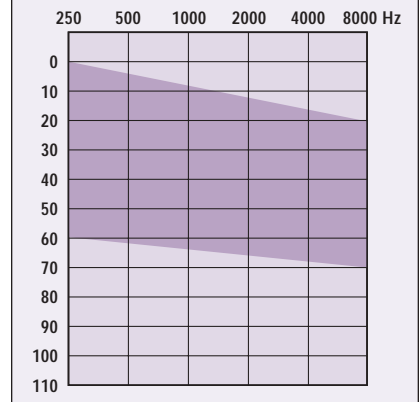
Input sound pressure level: 50 dB
Volume Control: full on
Matrix: 112/45/10, 20, 30

Input vs Output (Effect of Volume Control)



Input signal: 2000 Hz
Volume Control: as shown

Fitting Guide



The **WDRC Class A** input compression circuit provides flexible amplification to help re-establish normal loudness growth for mild to moderate sensorineural hearing losses.

The **WDRC A** circuit is suitable for flat to steeply sloping audiogram configurations.

Available Matrix Selections

Battery Size: 312 / 13

102/35/10	102/35/20	102/35/30
107/40/10	107/40/20	107/40/30
112/45/10	112/45/20	112/45/30

Trimmers and Switches

Battery Size: 312 / 13

- Low-cut Tone
- High-cut Tone
- MPO Control
- Gain Control
- Telecoil with Switch
- Noise Suppressor Switch

Circuit K-Amp

ANSI Technical Data

Frequency Response	
Slope	
05	100-6500 Hz
15	250-6800 Hz
25	450-7500 Hz
35	600-7500 Hz

Peak Gain	25-40 dB
HF-Average Gain	15-38 dB
HF-Average Gain at RTP	15-38 dB
Peak Output	100-115 dB
HF-Average SSPL90	92-112 dB

Zinc Air Premium Battery Life	
13	330-750 h
312	160-370 h

Current Drain	0.3-0.7 mA
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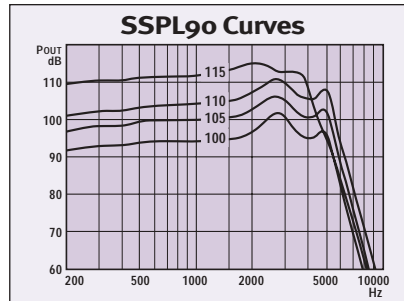
Equivalent Input Noise	<32 dB
------------------------	--------

Total Harmonic Distortion:		
500 Hz	typical 2%	<8%
800 Hz	typical 2%	<8%
1600 Hz	typical 2%	<8%

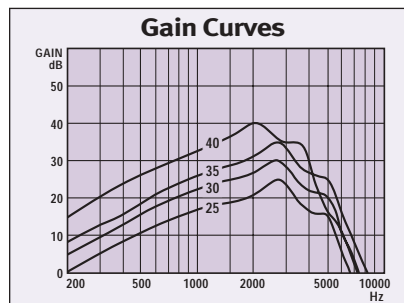
Attack Time	<20 ms
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Release Time	600 ms
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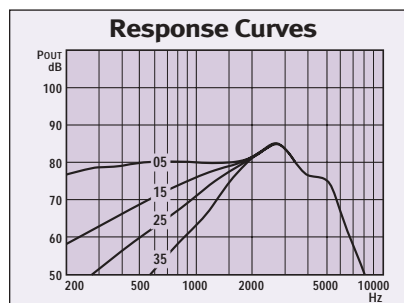
Compression Ratio	2:1
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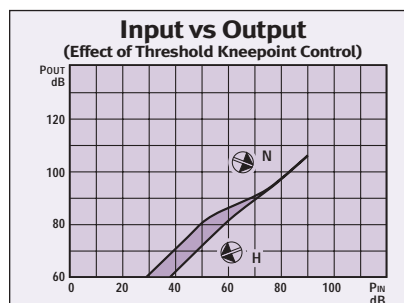
Input sound pressure level: 90 dB
Volume Control: full on



Input sound pressure level: 50 dB
Volume Control: full on

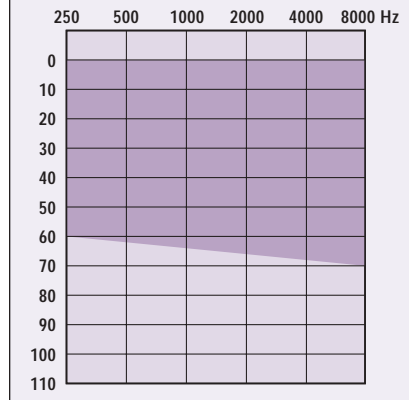


Input sound pressure level: 50 dB
Volume Control: full on
Matrix: 110/35/05, 15, 25, 30



Input signal: 2000 Hz
Volume Control: Full on

Fitting Guide



The **K-Amp** Class D input compression, WDRC, TILL circuit provides flexible amplification to help re-establish normal loudness growth for mild to moderate sensorineural hearing losses.

The **K-Amp** circuit is suitable for reverse to steeply sloping audiogram configurations.

Matrix Selections

Battery Size: 312	13		
100/25/05	100/25/15	100/25/25	100/25/35
105/30/05	105/30/15	105/30/25	105/30/35
110/35/05	110/35/15	110/35/25	110/35/35
115/40/05	115/40/15	115/40/25	115/40/35

Trimmers and Switches

Battery Size: 312 / 13

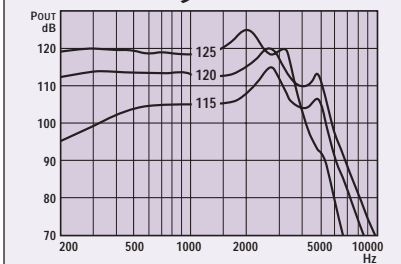
- Low-cut Tone
- High-cut Tone
- Gain Control
- Threshold Kneepoint Control
- Telecoil with Switch
- Noise Suppressor Switch

Circuit Linear Power B (Push Pull)

ANSI Technical Data

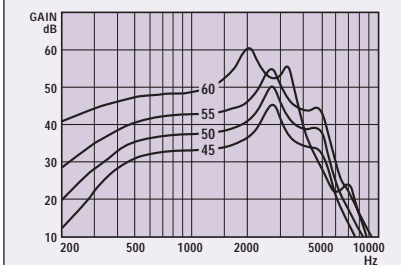
Frequency Response		
Slope		
10	200-4800 Hz	
20	300-5000 Hz	
Peak Gain	45-60 dB	
HF-Average Gain	36-52 dB	
HF-Average Gain at RTP	31-43 dB	
Peak Output	115-125 dB	
HF-Average SSPL90	107-120 dB	
Zinc Air Premium Battery Life		
13	175-330 h	
2	85-160 h	
Current Drain	0.7-1.3 mA	
Equivalent Input Noise	<27 dB	
Total Harmonic Distortion:		
500 Hz	typical 2%	<8%
800 Hz	typical 2%	<8%
1600 Hz	typical 2%	<8%

SSPL90 Curves



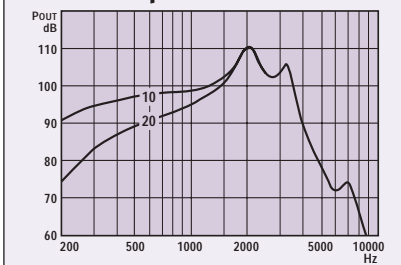
Input sound pressure level: 90 dB
Volume Control: full on

Gain Curves



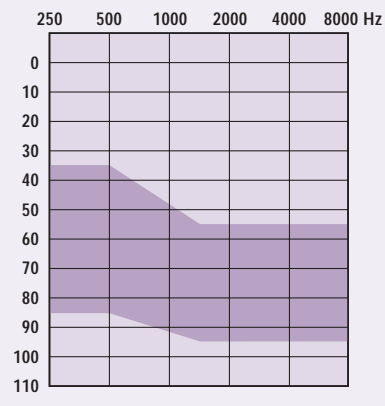
Input sound pressure level: 50 dB
Volume Control: full on

Response Curves



Input sound pressure level: 50 dB
Volume Control: full on
Matrix: 125/60/10, 20

Fitting Guide



The **Linear Power Class B (Push Pull)** circuit provides flexible amplification for uncomplicated moderately-severe to severe hearing losses. Suitable for previous users of traditional push-pull power amplification.

The **Linear Power B (Push Pull)** circuit is suitable for flat to sloping audiogram configurations.

Matrix Selections

Battery Size: 312	13
115/45/10	115/45/20
120/50/10	120/50/20
120/55/10	120/55/20
125/55/10	125/55/20
125/60/10	125/60/20

Trimmers and Switches

- Battery Size: 312 / 13**
- Low-cut Tone
 - High-cut Tone
 - MPO Control
 - Telecoil with Switch
 - Noise Suppressor Switch

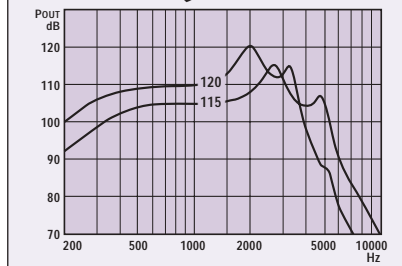
Circuit

AGCo Power B (Output Compression Push Pull)

ANSI Technical Data

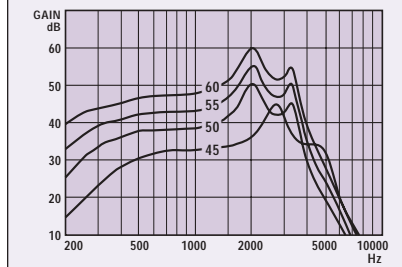
Frequency Response		
Slope		
10	200-4800 Hz	
20	240-5000 Hz	
Peak Gain	45-60 dB	
HF-Average Gain	36-51 dB	
HF-Average Gain at RTP	36-51 dB	
Peak Output	115-120 dB	
HF-Average SSPL90	108-113 dB	
Zinc Air Premium Battery Life		
13	160-270 h	
312	80-135 h	
Current Drain	0.85-1.45 mA	
Equivalent Input Noise	<27 dB	
Total Harmonic Distortion:		
500 Hz	typical 2%	<8%
800 Hz	typical 2%	<8%
1600 Hz	typical 2%	<8%
Attack Time	<20 ms	
Release Time	70 ms	
Compression Ratio	10:1	

SSPL90 Curves



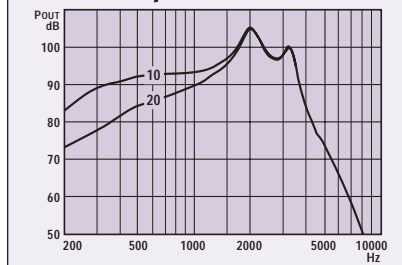
Input sound pressure level: 90 dB
Volume Control: full on

Gain Curves



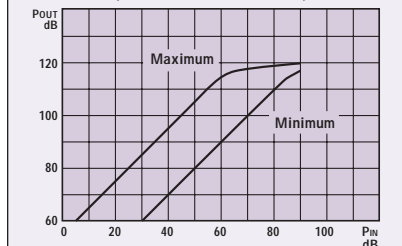
Input sound pressure level: 50 dB
Volume Control: full on

Response Curves



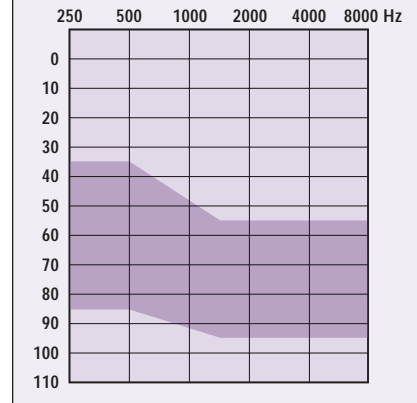
Input sound pressure level: 50 dB
Volume Control: full on
Matrix: 120/55/10, 20

Input vs Output (Effect of Volume Control)



Input signal: 2000 Hz
Volume Control: as shown

Fitting Guide



The **Power AGCo Class B** output compression circuit provides flexible amplification for moderately-severe to severe hearing losses with restricted dynamic ranges. Suitable for previous Linear Class A users who are being introduced to the "cleaner" sound of compression. VC affects gain, not MPO.

The **Power AGCo B** circuit is suitable for flat to sloping audiogram configurations.

Matrix Selections

Battery Size: 312	13
115/45/10	115/45/20
120/50/10	120/50/20
120/55/10	120/55/20
120/60/10	120/60/20

Trimmers and Switches

Battery Size: 312 / 13

- Low-cut Tone
- High-cut Tone
- MPO Control
- Telecoil with Switch
- Noise Suppressor Switch

Features and Options

Circuits

Linear A
 Linear D
 WDRC A
 K-Amp
 Linear Power B (Push Pull)
 AGCo Power B (Push Pull)

Controls

Low-cut Tone - White
 High-cut Tone - Yellow
 Maximum Power Output (MPO) - Red
 Gain Control - Green
 Threshold Kneepoint Control - Black

Switches

Telecoil Switch
 Noise Suppressor Switch

Volume Controls

Screw Set Volume Control - Blue
 Raised Volume Control Cap

Battery Sizes

10A
 312
 13

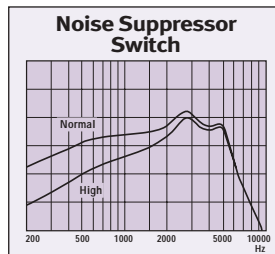
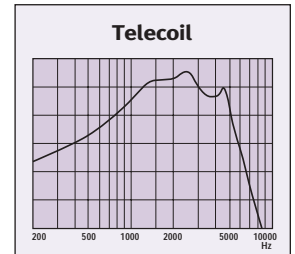
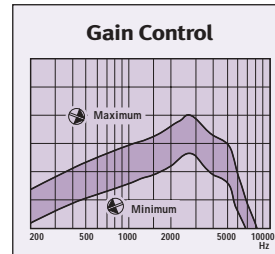
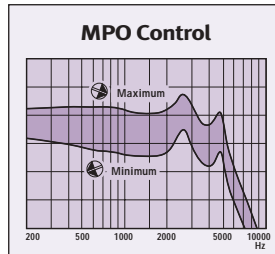
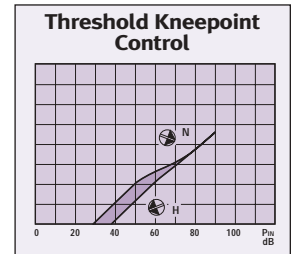
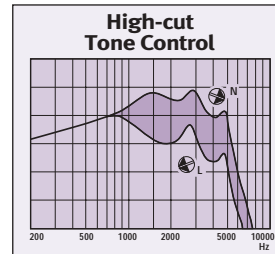
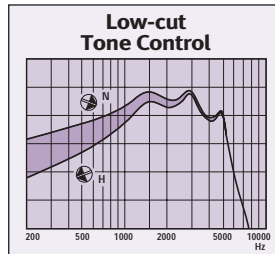
VC Sizes

- Screw-set Volume Control - CIC Faceplate
- 4 mm VC - Faceplate with 312 size battery
- 6 mm VC - Faceplate with 13 size battery

Faceplate Colours

Beige (Standard)
 Pink
 Light Brown
 Dark Brown

Trimmers and Switches





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We reserve the right to change specific data without notice as improvements are introduced.