

Gold Series

Silver Series

Bronze Series

# VISTA<sup>®</sup>

Custom

Product Guide - IEC



unitron<sup>®</sup>  
hearing 

## Product Guide



*CIC*



*Mini-Canal*



*Canal*



*Half-Shell*



*Full-Shell*

### Cosmetics, Performance and Price - The Choice is Yours

Unitron's Vista Custom Product Series provides you and your clients with a range of flexible custom choices. Vista's three tiers - Gold, Silver and Bronze - simplify ordering and allow you to customize Vista to meet your clients' audiological, cosmetic and budgetary needs. The Vista Product Series redefines custom hearing aids at Unitron. Choose from Vista's full range of circuits, faceplate styles and pricing, all of which are 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

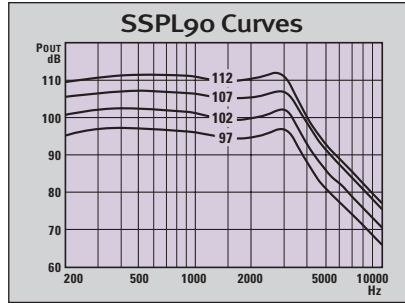
- Variety of audiological flexible circuits including Output Compression in a power offering and a K-amp
- Technologically advanced, predominantly Class D circuits for improved battery life
- Higher frequencies offered to fit sloping losses
- One standard trimmer for added value and fitting flexibility
- 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

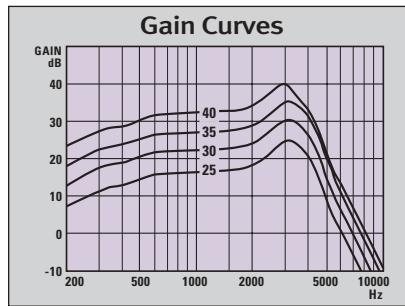
- Economical pricing makes the Bronze series affordable
- Six circuits to solve most fitting challenges
- Power circuits available for severe losses
- Battery options for most circuits: 10A, 312, and 13
- Trimmer and switch choices to support fittings

## Circuit Linear D

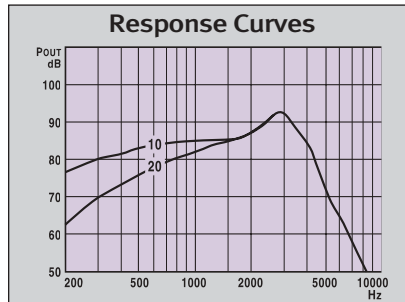
IEC 118-7 2cc Coupler Technical Data		
Frequency Response		
Slope		
10	200 - 5400 Hz	
20	250 - 6000 Hz	
Reference Test Frequency		
Slope 10	1.6 kHz	
Slope 20	2.5 kHz	
Peak Gain	25 - 40 dB	
Full on Gain at RTF	17 - 38 dB	
Peak Output	97 - 112 dB	
Output at RTF	95 - 112 dB	
Zinc Air Premium Battery Life		
10A	110 - 185 h	
5A	70 - 115 h	
Current Drain	0.3 - 0.5 mA	
Equivalent Input Noise at RTF	< 31 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

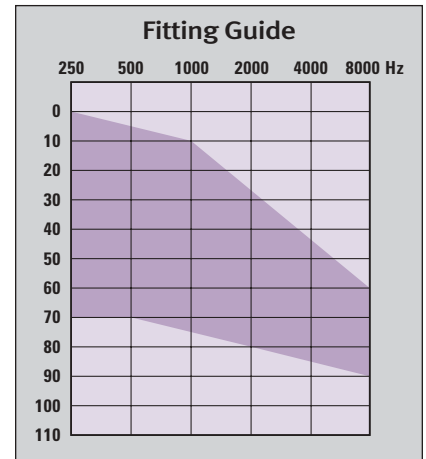


Input sound pressure level: 60 dB  
Volume Control: full on



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

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



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

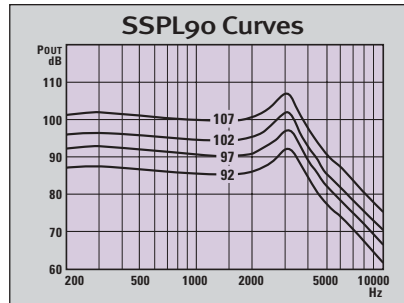
Matrix Selections	
Battery Size: 10A / 5A	
97/25/10	97/25/20
102/30/10	102/30/20
107/35/10	107/35/20
112/40/10	112/40/20

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

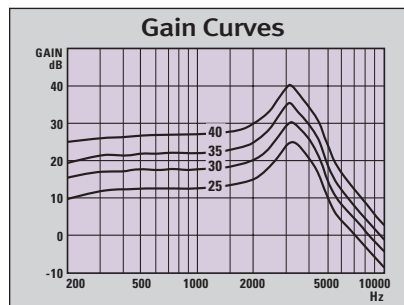
## Circuit

### AGCo D (Output Compression)

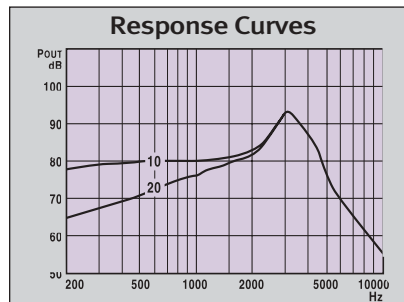
IEC 188-7 2cc Coupler Technical Data	
Frequency Response	
Slope	
10	200 - 6700 Hz
20	200 - 7700 Hz
Reference Test Frequency	
Slope 10	1.6 kHz
Slope 20	2.5 kHz
Peak Gain	25 - 40 dB
Full on Gain at RTF	14 - 34 dB
Peak Output	92 - 107 dB
Output at RTF	85 - 104 dB
Zinc Air Premium Battery Life	
10A	100 - 140 h
5A	65 - 90 h
Current Drain	0.4 - 0.55 mA
Equivalent Input Noise at RTF	< 33 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



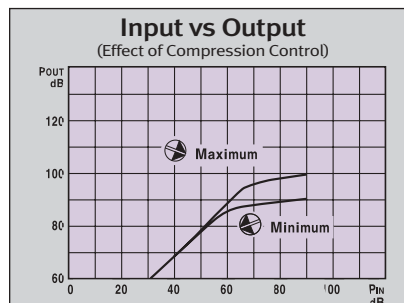
Input sound pressure level: 90 dB  
Volume Control: full on



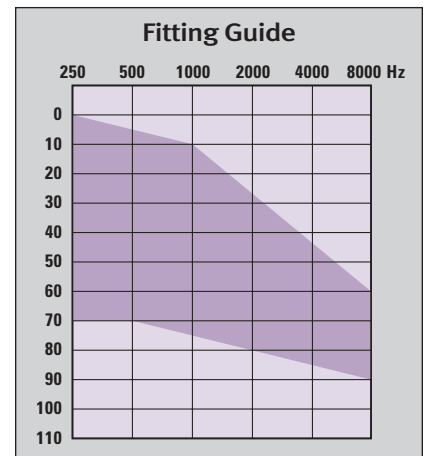
Input sound pressure level: 50 dB  
Volume Control: full on



Input sound pressure level: 60 dB  
Volume Control: RTG  
Matrix: 107/40/10, 20



Input signal: 1600 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.

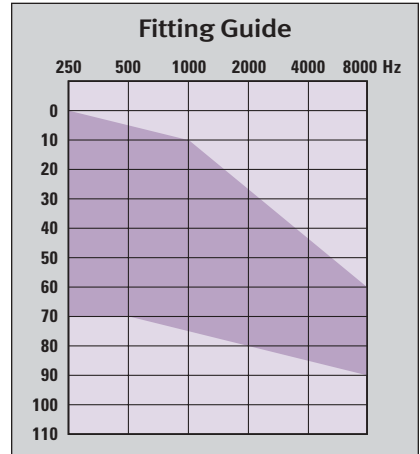
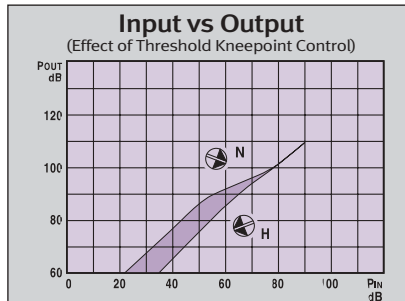
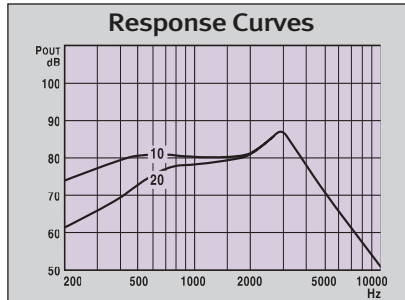
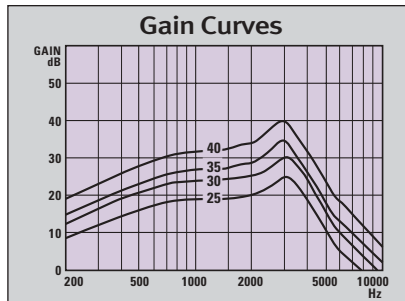
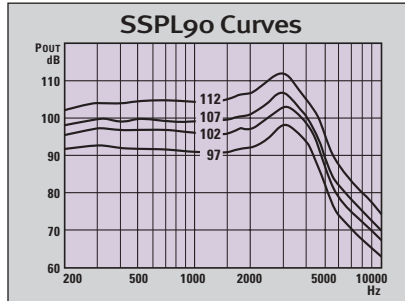
The AGCo D circuit is suitable for flat to steeply sloping audiogram configurations.

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

IEC 118-7 2cc Coupler Technical Data		
Frequency Response		
Slope		
10	200 - 6700 Hz	
20	250 - 7100 Hz	
Reference Test Frequency		
Slope 10, 20	2.5 kHz	
Peak Gain	25 - 40 dB	
Full on Gain at RTF	23 - 38 dB	
Peak Output	97 - 112 dB	
Output at RTF	95 - 110 dB	
Zinc Air Premium Battery Life		
10A	110 - 185 h	
5A	70 - 115 h	
Current Drain	0.3 - 0.5 mA	
Equivalent Input Noise at RTF	< 28 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	



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

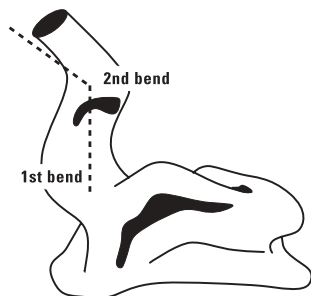
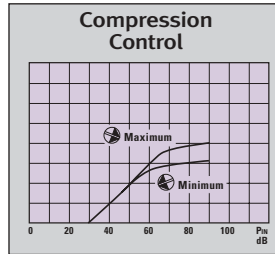
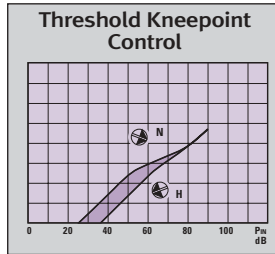
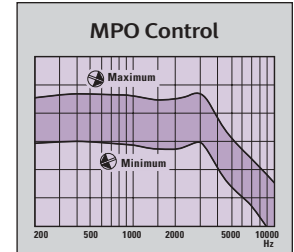
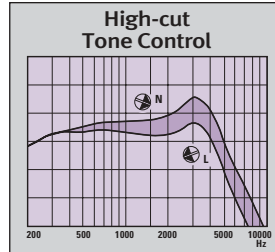
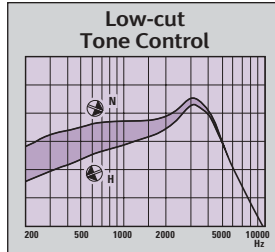
**Volume Control**

- Screw Set Volume Control - Blue (Standard)

**Battery Sizes**

- 10A (Standard)
- 5A

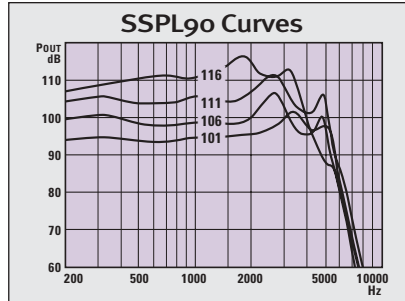
## Trimmers and Switches



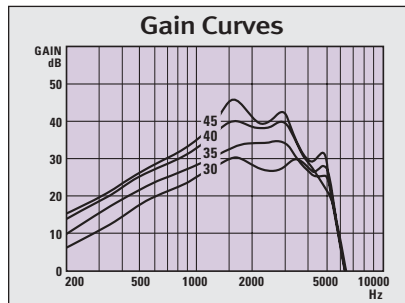
**Precaution:**  
 Proper fitting of these hearing aids requires the taking of a deep-canal impression. Hearing healthcare professionals should not attempt this type of fitting unless they have developed the necessary skills to take this type of impression safely.

## Circuit Linear A

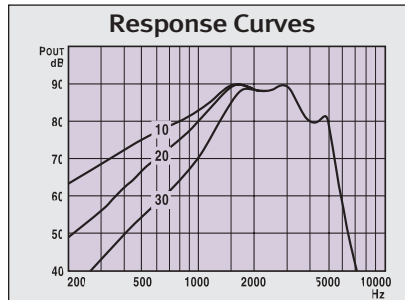
IEC 118-7 2cc Coupler Technical Data		
Frequency Response		
Slope		
10		270 - 5500 Hz
20		400 - 5700 Hz
30		550 - 6200 Hz
Reference Test Frequency		
Slope 10		1.6 kHz
Slope 20, 30		2.5 kHz
Peak Gain		30 - 40 dB
Full on Gain at RTF		26 - 45 dB
Peak Output		101 - 116 dB
Output at RTF		95 - 115 dB
Zinc Air Premium Battery Life		
13		210 - 330 h
312		100 - 160 h
10A		50 - 80 h
Current Drain		0.7 - 1.1 mA
Equivalent Input Noise at RTF		< 30 dB
Total Harmonic Distortion:		
500 Hz	typical 2%	< 8%
800 Hz	typical 2%	< 8%
1600 Hz	typical 2%	< 8%



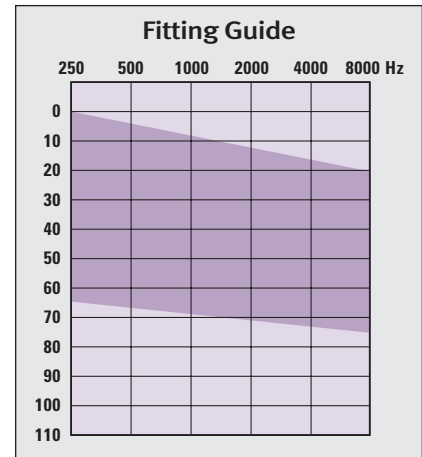
Input sound pressure level: 90 dB  
Volume Control: full on



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



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



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

### IEC 118-7 2cc Coupler Technical Data

#### Frequency Response

##### Slope

10	200 - 6100 Hz
20	350 - 6300 Hz
30	500 - 6800 Hz

#### Reference Test Frequency

Slope 10	1.6 kHz
Slope 20, 30	2.5 kHz

Peak Gain 30 - 45 dB

Full on Gain at RTF 21 - 44 dB

Peak Output 100 - 115 dB

Output at RTF 98 - 114 dB

#### Zinc Air Premium Battery Life

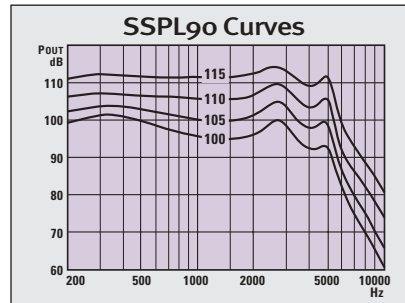
13	255 - 330 h
312	120 - 160 h
10A	60 - 80 h

Current Drain 0.7 - 0.9 mA

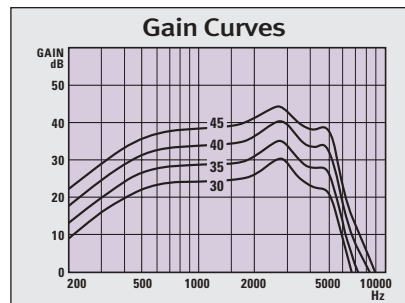
Equivalent Input Noise at RTF < 28 dB

#### Total Harmonic Distortion:

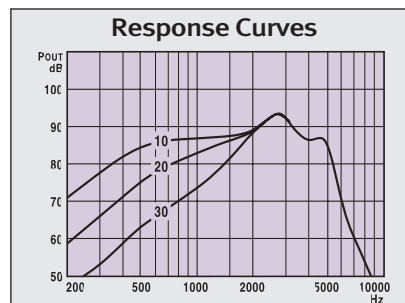
500 Hz	typical 2%	< 8%
800 Hz	typical 2%	< 8%
1600 Hz	typical 2%	< 8%



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

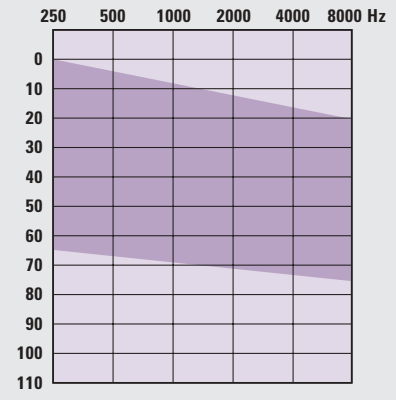


Input sound pressure level: 60 dB  
Volume Control: full on



Input sound pressure level: 60 dB  
Volume Control: RTG  
Matrix: 110/40/10, 20, 30

### 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

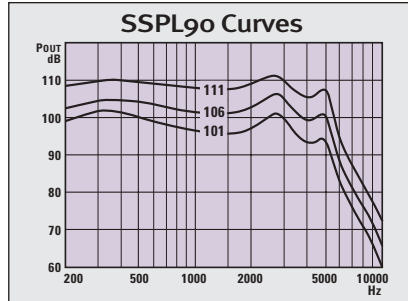
### Trimmers and Switches

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

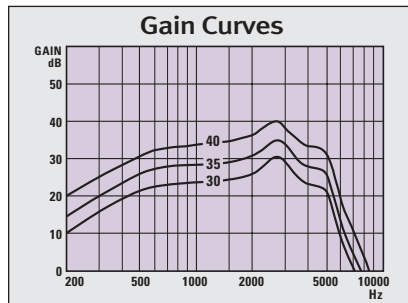
\* not available with Matrix Selections: 100/30/10, 20, 30

## Circuit AGCo D (Output Compression)

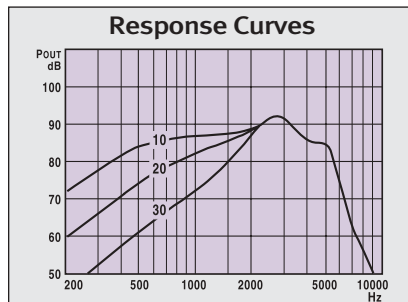
IEC 118-7 2cc Coupler Technical Data		
Frequency Response		
Slope		
10	200 - 6300 Hz	
20	350 - 6600 Hz	
30	500 - 7200 Hz	
Reference Test Frequency		
Slope 10	1.6 kHz	
Slope 20, 30	2.5 kHz	
Peak Gain	30 - 40 dB	
Full on Gain at RTF	20 - 39 dB	
Peak Output	101 - 111 dB	
Output at RTF	96 - 111 dB	
Zinc Air Premium Battery Life		
13	255 - 330 h	
312	120 - 160 h	
10A	60 - 80 h	
Current Drain	0.7 - 0.9 mA	
Equivalent Input Noise at RTF	< 29 dB	
Total Harmonic Distortion:		
500 Hz	typical 2%	< 8%
800 Hz	typical 2%	< 8%
1600 Hz	typical 2%	< 8%



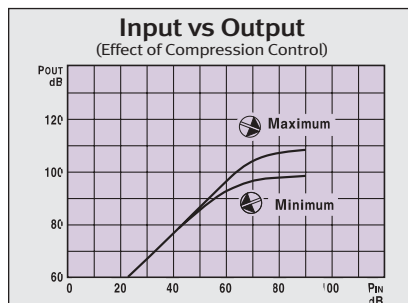
Input sound pressure level: 90 dB  
Volume Control: full on



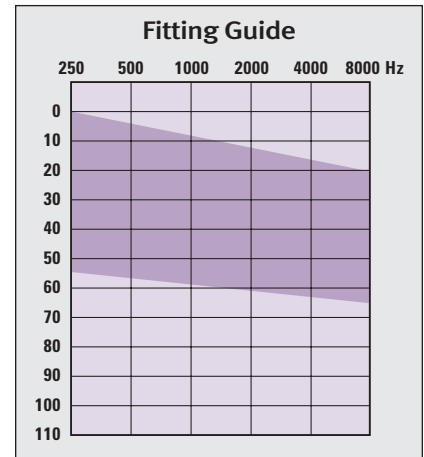
Input sound pressure level: 50 dB  
Volume Control: full on



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



Input signal: 1600 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

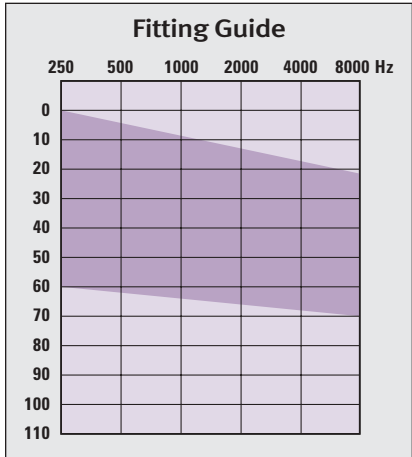
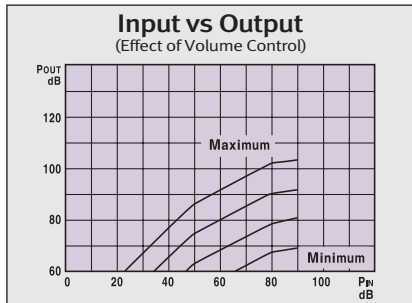
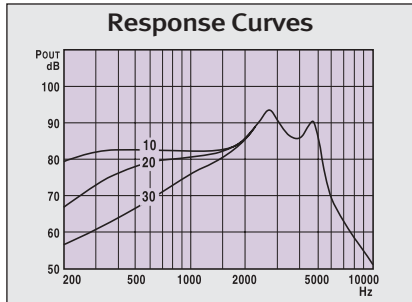
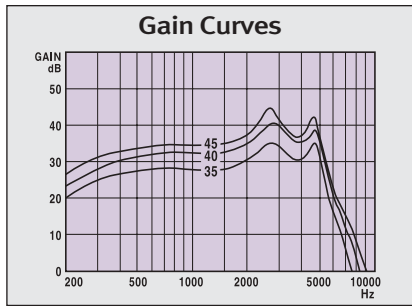
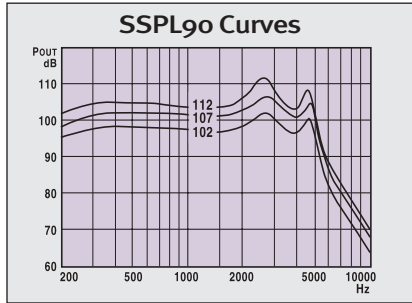
Trimmers and Switches	
Battery Size: 10A	312/ 13
Active Low-cut Tone (STD)	
High-cut Tone	
Compression Control*	
Gain Control	
Telecoil with Switch	
Noise Suppressor Switch	

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

## Circuit

# WDRC D (Wide Dynamic Range Compression)

IEC 118-7 2cc Coupler Technical Data	
Frequency Response	
Slope	
10	200 - 6300 Hz
20	200 - 6600 Hz
30	300 - 7600 Hz
Reference Test Frequency	
Slope 10	1.6 kHz
Slope 20, 30	2.5 kHz
Peak Gain	35 - 45 dB
Full on Gain at RTF	26 - 44 dB
Peak Output	102 - 112 dB
Output at RTF	96 - 111 dB
Zinc Air Premium Battery Life	
13	385 - 575 h
312	185 - 275 h
10A	90 - 140 h
Current Drain	0.4 - 0.6 mA
Equivalent Input	
Noise	30 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



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

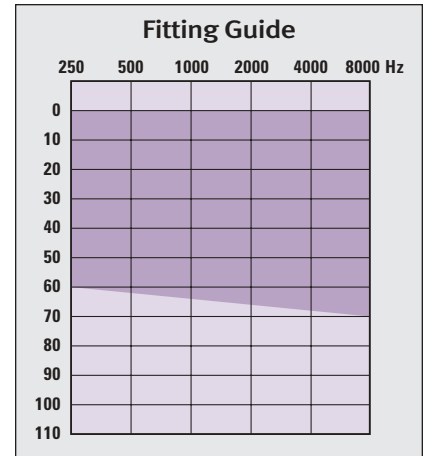
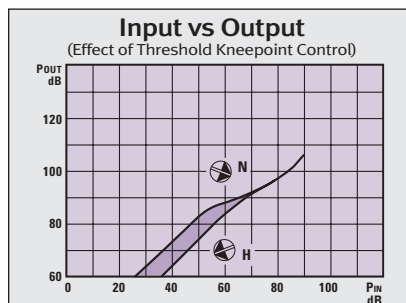
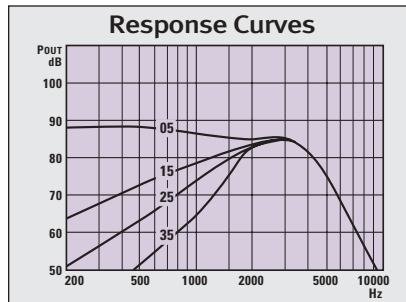
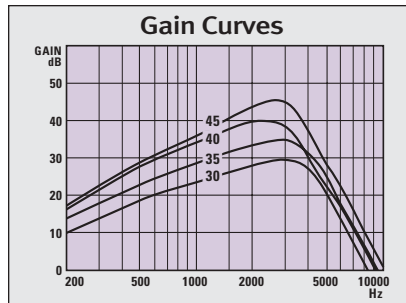
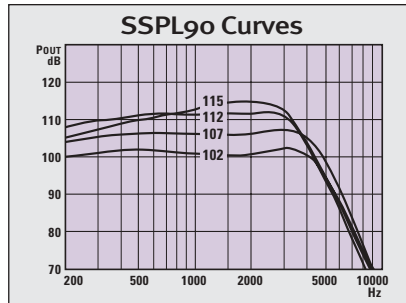
The **WDRC D** circuit is suitable for flat to steeply sloping audiogram configurations.

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

IEC 118-7 2cc Coupler Technical Data		
Frequency Response		
Slope		
05	100 - 8000 Hz	
15	200 - 6500 Hz	
25	300 - 7100 Hz	
35	450 - 8000 Hz	
Reference Test Frequency		
Slope 05, 15	1.6 kHz	
Slope 25, 35	2.5 kHz	
Peak Gain		
	30 - 45 dB	
Full on Gain at RTF		
	23 - 45 dB	
Peak Output		
	102 - 115 dB	
Output at RTF		
	101 - 114 dB	
Zinc Air Premium Battery Life		
13	290 - 575 h	
312	140 - 275 h	
10A	70 - 140 h	
Current Drain		
	0.4 - 0.8 mA	
Equivalent Input Noise at RTF < 31 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		



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.

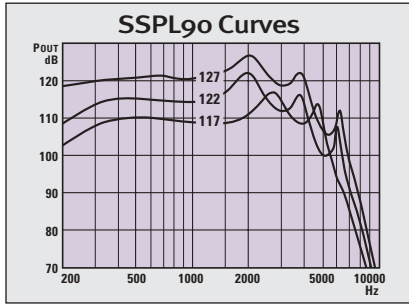
Matrix Selections			
Battery Size:			
10A	312	13	
102/30/05	102/30/15	102/30/25	102/30/35
107/35/05	107/35/15	107/35/25	107/35/35
112/40/05	112/40/15	112/40/25	112/40/35
115/45/05	115/45/15	115/45/25	115/45/35

Trimmmers 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	

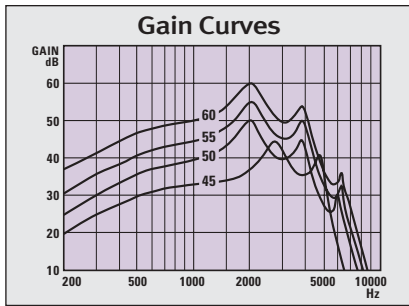
\* High Boost Control N/A with 115/45/05, 15, 25, 35

## Circuit Linear Power D

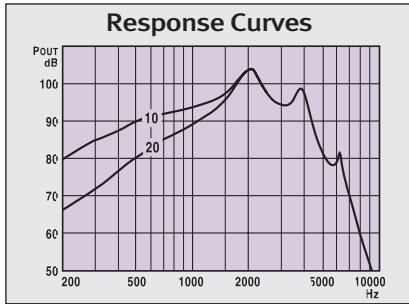
IEC 118-7 2cc Coupler Technical Data		
Frequency Response		
Slope		
10	200 - 6300 Hz	
20	350 - 6600 Hz	
Reference Test Frequency		
Slope 10	1.6 kHz	
Slope 20	2.5 kHz	
Peak Gain		
	45 - 60 dB	
Full on Gain at RTF		
	33 - 55 dB	
Peak Output		
	117 - 127 dB	
Output at RTF		
	109 - 124 dB	
Zinc Air Premium Battery Life		
13	210 - 385 h	
312	100 - 185 h	
Current Drain		
	0.6 - 1.1 mA	
Equivalent Input Noise at RTF < 27 dB		
Total Harmonic Distortion:		
500 Hz	typical 2%	< 8%
800 Hz	typical 2%	< 8%
1600 Hz	typical 2%	< 8%



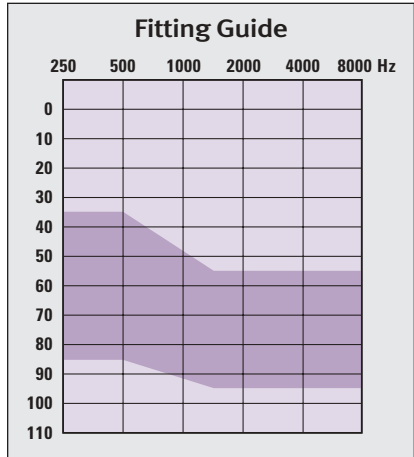
Input sound pressure level: 90 dB  
Volume Control: full on



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



Input sound pressure level: 60 dB  
Volume Control: RTG  
Matrix: 127/55/10, 20



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

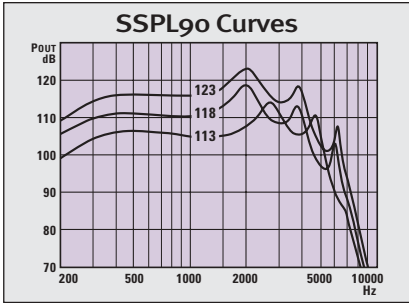
The **Linear Power D** circuit is suitable for flat to steeply sloping audiogram configurations.

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

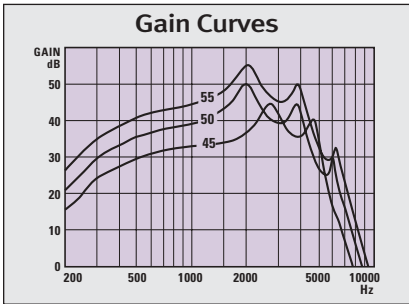
Trimmers and Switches
Battery Size: 312 / 13
Active Low-cut Tone (STD)
High-cut Tone
MPO Control
Telecoil with Switch
Noise Suppressor Switch

## Circuit AGCo Power D (Output Compression)

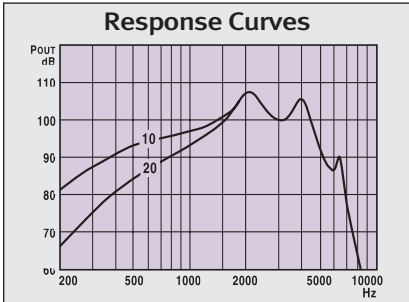
IEC 118-7 2cc Coupler Technical Data		
Frequency Response		
Slope		
10	200 - 6600 Hz	
20	350 - 6800 Hz	
Reference Test Frequency		
Slope 10	1.6 kHz	
Slope 20, 30	2.5 kHz	
Peak Gain		
45 - 55 dB		
Full on Gain at RTF		
34 - 50 dB		
Peak Output		
113 - 123 dB		
Output at RTF		
105 - 119 dB		
Zinc Air Premium Battery Life		
13	230 - 330 h	
312	110 - 160 h	
Current Drain		
0.7 - 1.0 mA		
Equivalent Input Noise at RTF < 27 dB		
Total Harmonic Distortion:		
500 Hz	typical 2%	< 8%
800 Hz	typical 2%	< 8%
1600 Hz	typical 2%	< 8%
Attack Time < 40 ms		
Release Time 70 ms		
Compression Ratio 10:1		



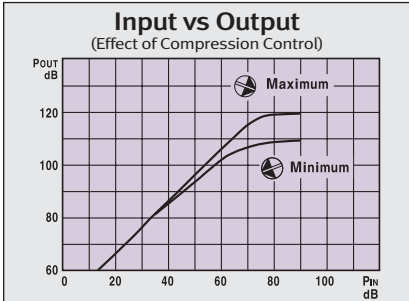
Input sound pressure level: 90 dB  
Volume Control: full on



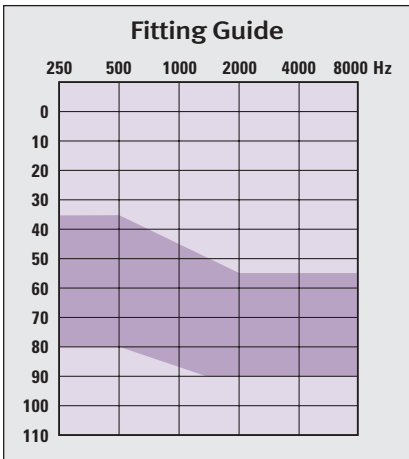
Input sound pressure level: 50 dB  
Volume Control: full on



Input sound pressure level: 60 dB  
Volume Control: RTG  
Matrix: 123/55/10, 20



Input signal: 1600 Hz  
Volume Control: full on



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

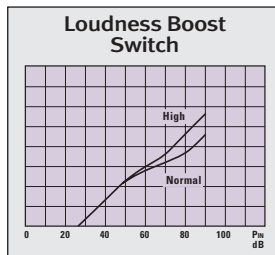
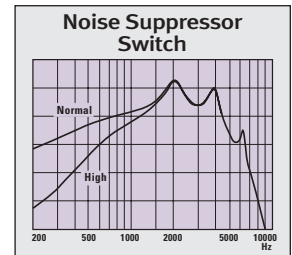
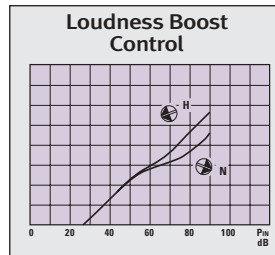
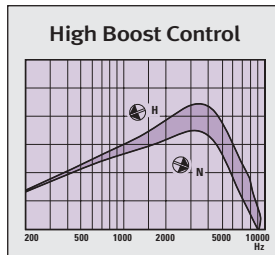
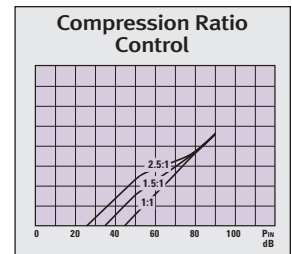
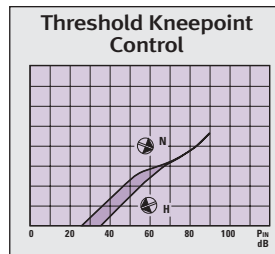
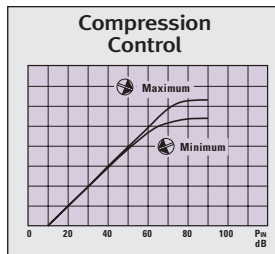
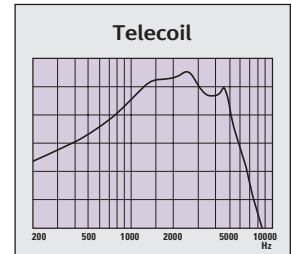
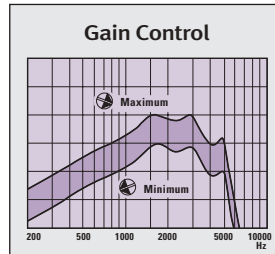
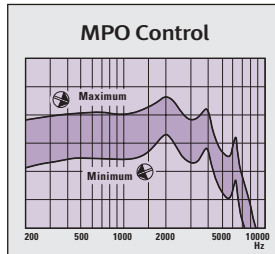
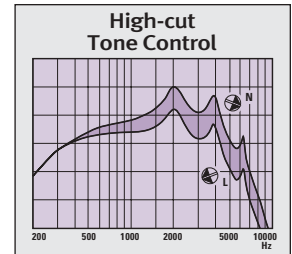
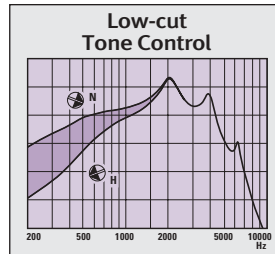
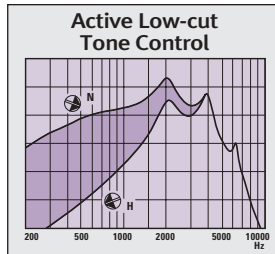
**VC Sizes**

- 4 mm VC - Faceplate with 312 size battery
- 6 mm VC - Faceplate with 13 size battery

**Faceplate Colours**

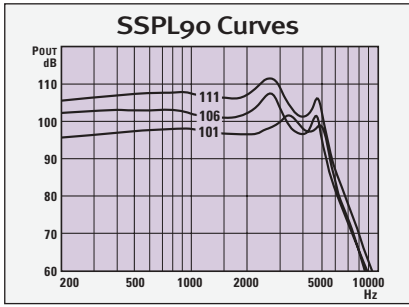
- Beige (Standard)
- Pink
- Light Brown
- Dark Brown

## Trimmers and Switches

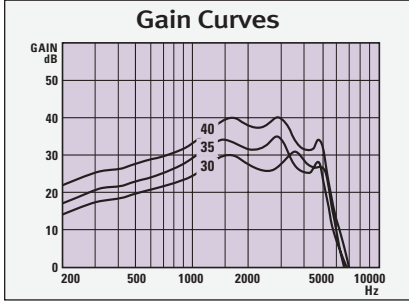


## Circuit Linear A

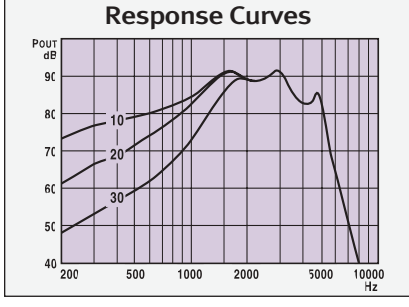
IEC 118-7 2cc Coupler Technical Data		
Frequency Response		
Slope		
10	200 - 5800 Hz	
20	400 - 5800 Hz	
30	650 - 6300 Hz	
Reference Test Frequency		
Slope 10	1.6 kHz	
Slope 20, 30	2.5 kHz	
Peak Gain	30 - 40 dB	
Full on Gain at RTF	26 - 40 dB	
Peak Output	101 - 111 dB	
Output at RTF	97 - 111 dB	
Zinc Air Premium Battery Life		
13	240 - 460 h	
312	115 - 220 h	
10A	60 - 110 h	
Current Drain	0.5 - 0.95 mA	
Equivalent Input		
Noise at RTF	< 31 dB	
Total Harmonic Distortion:		
500 Hz	typical 2%	< 8%
800 Hz	typical 2%	< 8%
1600 Hz	typical 2%	< 8%



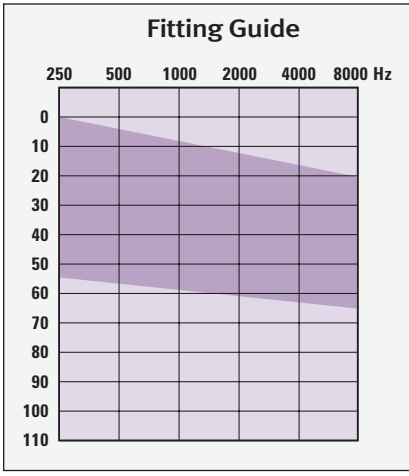
Input sound pressure level: 90 dB  
Volume Control: full on



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



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



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

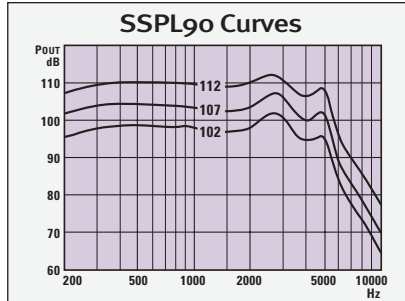
The **Linear Class A** circuit is suitable for flat to steeply sloping audiogram configurations.

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

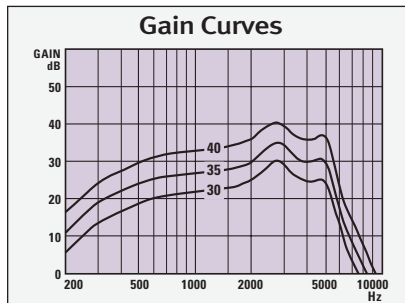
Trimmers and Switches	
Battery Size: 10A	312 / 13
Low-cut Tone	
High-cut Tone	
MPO Control	
Telecoil with Switch	
Noise Suppressor Switch	

## Circuit Linear D

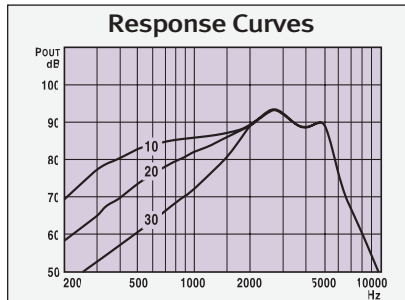
IEC 118-7 2cc Coupler Technical Data		
Frequency Response		
Slope		
10	200 - 6500 Hz	
20	350 - 7100 Hz	
30	450 - 8000 Hz	
Reference Test Frequency		
Slope 10	1.6 kHz	
Slope 20, 30	2.5 kHz	
Peak Gain		
	30 - 40 dB	
Full on Gain at RTF		
	18 - 39 dB	
Peak Output		
	102 - 112 dB	
Output at RTF		
	97 - 112 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 at RTF	< 29 dB	
Total Harmonic Distortion:		
500 Hz	typical 2%	< 8%
800 Hz	typical 2%	< 8%
1600 Hz	typical 2%	< 8%



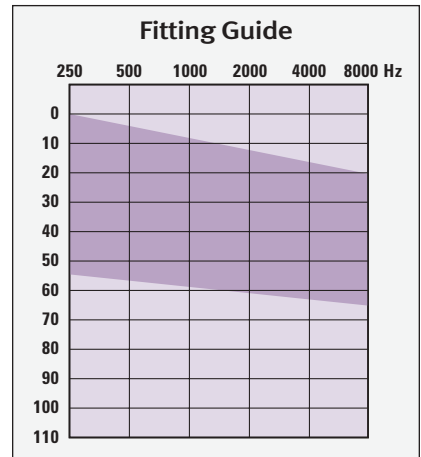
Input sound pressure level: 90 dB  
Volume Control: full on



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



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



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.

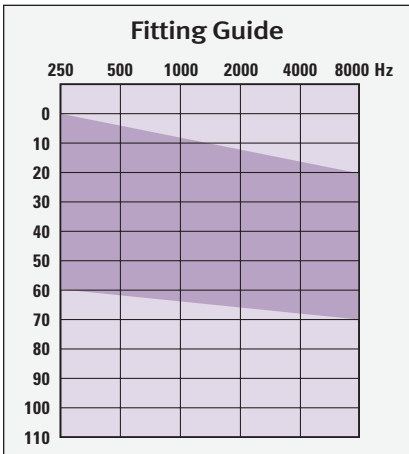
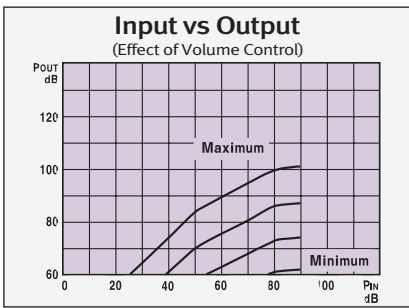
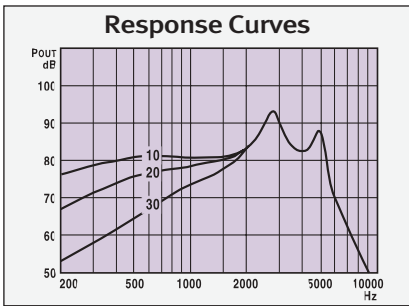
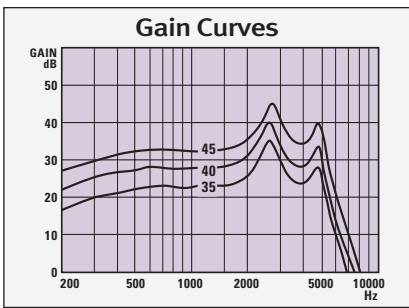
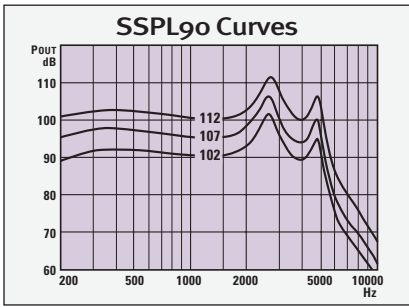
Matrix Selections		
Battery Size: 10A / 312 / 13		
102/30/10	102/30/20	102/30/30
107/35/10	107/35/20	107/35/30
112/40/10	112/40/20	112/40/30

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)

IEC 118-7 2cc Coupler Technical Data		
Frequency Response		
Slope		
10	200 - 6500 Hz	
20	350 - 6600 Hz	
30	500 - 6900 Hz	
Reference Test Frequency		
Slope 10	1.6 kHz	
Slope 20	2.5 kHz	
Peak Gain		
	35 - 45 dB	
Full on Gain at RTF		
	21 - 43 dB	
Peak Output		
	102 - 112 dB	
Output at RTF		
	91 - 110 dB	
Zinc Air Premium Battery Life		
13	160 - 575 h	
312	80 - 275 h	
Current Drain		
	0.4 - 1.4 mA	
Equivalent Input Noise at RTF < 30 dB		
Total Harmonic Distortion:		
500 Hz	typical 2%	< 8%
800 Hz	typical 2%	< 8%
1600 Hz	typical 2%	< 8%
Attack Time < 10 ms		
Release Time 50 ms		
Compression Ratio 2:1		



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

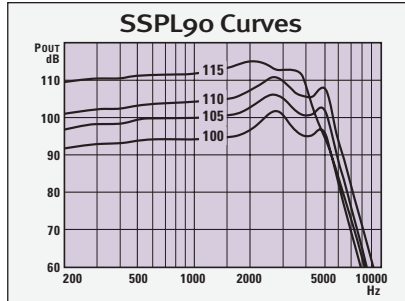
The **WDRC A** circuit is suitable for flat to steeply sloping audiogram configurations.

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

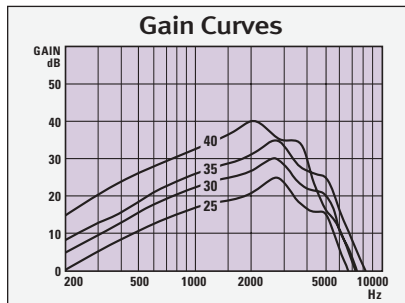
- Trimmers and Switches**
- Battery Size: 312 / 13
- Low-cut Tone
  - High-cut Tone
  - MPO Control
  - Gain Control
  - Telecoil with Switch
  - Noise Suppressor Switch

## Circuit K-Amp

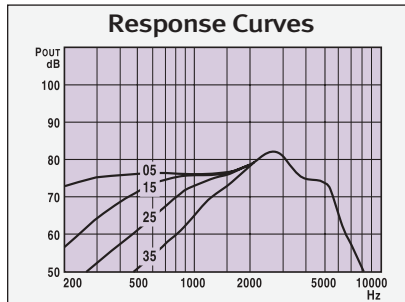
IEC 118-7 2cc Coupler Technical Data		
Frequency Response		
Slope		
05	100 - 6500 Hz	
15	250 - 6600 Hz	
25	370 - 6900 Hz	
35	450 - 8000 Hz	
Reference Test Frequency		
Slope 05, 15	1.6 kHz	
Slope 25, 35	2.5 kHz	
Peak Gain		
	25 - 40 dB	
Full on Gain at RTF		
	17 - 38 dB	
Peak Output		
	100 - 115 dB	
Output at RTF		
	95 - 114dB	
Zinc Air Premium Battery Life		
13	330 - 750 h	
312	160 - 370 h	
Current Drain		
	0.3 - 0.7 mA	
Equivalent Input Noise at RTF < 32 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 600 ms		
Compression Ratio 2:1		



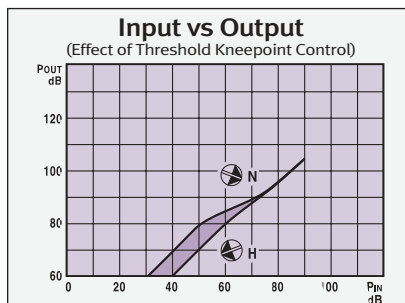
Input sound pressure level: 90 dB  
Volume Control: full on



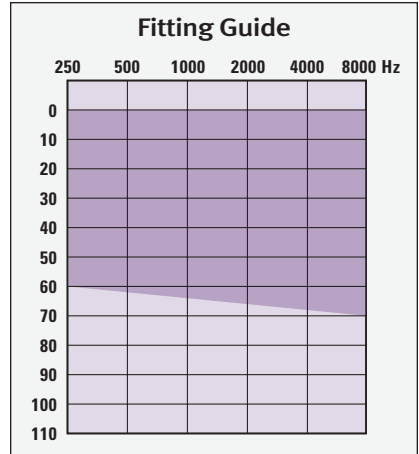
Input sound pressure level: 50 dB  
Volume Control: full on



Input sound pressure level: 60 dB  
Volume Control: RTG  
Matrix: 110/35/05, 15, 25, 30



Input signal: 1600 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.

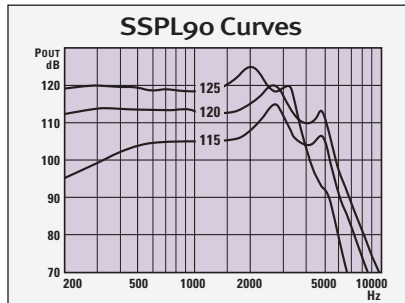
The **K-Amp** circuit is suitable for reverse to steeply sloping audiogram configurations.

Matrix Selections			
Battery Size: 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

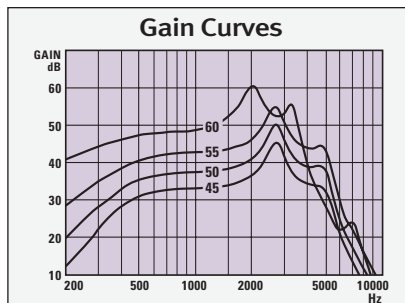
Trimmers and Switches	
Battery Size: 312 / 13	
Low-cut Tone	
High-cut Tone	
Gain Control	
Threshold Kneepoint Control	
Telecoil with Switch	
Noise Suppressor Switch	

## Circuit Linear Power B (Push-Pull)

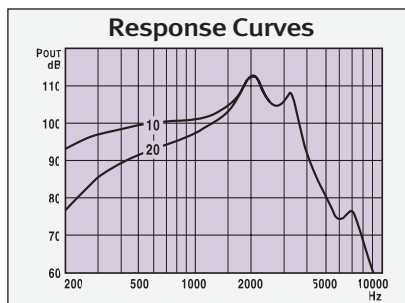
IEC 118-7 2cc Coupler Technical Data		
Frequency Response		
Slope		
10	100 - 4200 Hz	
20	300 - 4600 Hz	
Reference Test Frequency		
Slope 10	1.6 kHz	
Slope 20	2.5 kHz	
Peak Gain	45 - 60 dB	
Full on Gain at RTF	33 - 54 dB	
Peak Output	115 - 125 dB	
Output at RTF	105 - 121 dB	
Zinc Air Premium Battery Life		
13	190 - 330 h	
312	90 - 160 h	
Current Drain	0.7 - 1.2 mA	
Equivalent Input Noise at RTF < 28 dB		
Total Harmonic Distortion:		
500 Hz	typical 2%	< 8%
800 Hz	typical 2%	< 8%
1600 Hz	typical 2%	< 8%



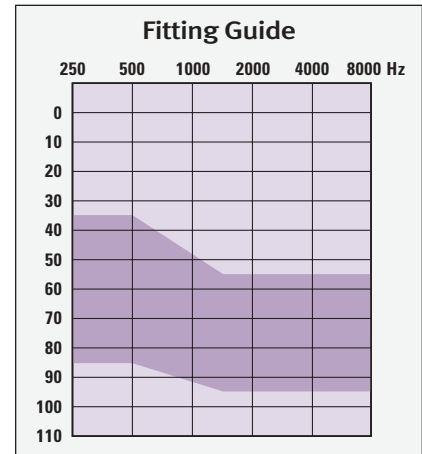
Input sound pressure level: 90 dB  
Volume Control: full on



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



Input sound pressure level: 60 dB  
Volume Control: RTG  
Matrix: 125/60/10, 20



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.

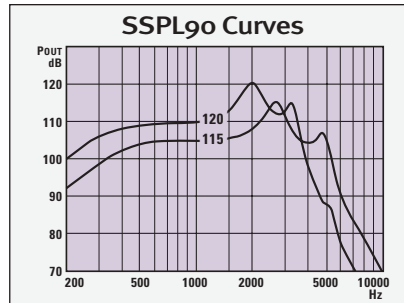
Matrix Selections	
<b>Battery Size: 312</b>	<b>13</b>
115/45/10	115/45/20
120/50/10	120/50/20
120/55/10	120/55/20
125/55/10	125/55/20
125/60/10	125/60/20

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

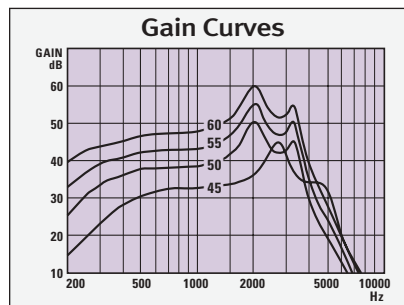
## Circuit

### AGCo Power B (Output Compression Push-Pull)

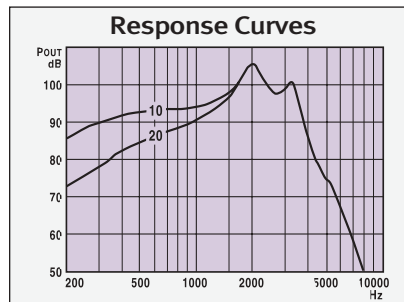
IEC 118-7 2cc Coupler Technical Data		
Frequency Response		
Slope		
10	200 - 4200 Hz	
20	300 - 4650 Hz	
Reference Test Frequency		
Slope 10	1.6 kHz	
Slope 20	2.5 kHz	
Peak Gain	45 - 60 dB	
Full on Gain at RTF	33 - 53 dB	
Peak Output	115 - 120 dB	
Output at RTF	106 - 115 dB	
Zinc Air Premium Battery Life		
13	290 - 380 h	
312	140 - 185 h	
Current Drain	0.6 - 0.8 mA	
Equivalent Input		
Noise at RTF	< 31 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	



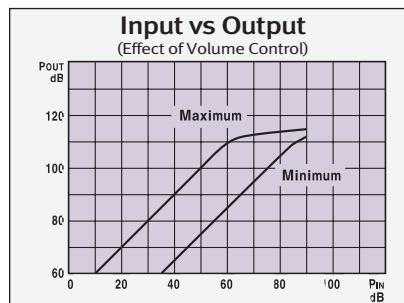
Input sound pressure level: 90 dB  
Volume Control: full on



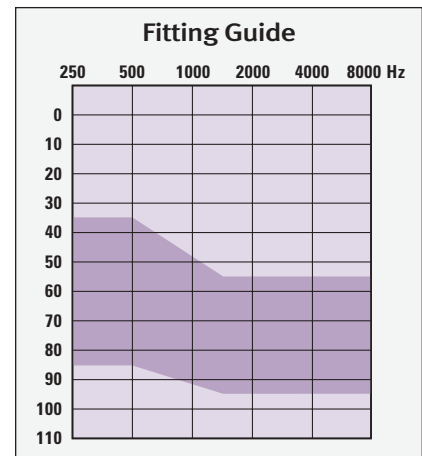
Input sound pressure level: 50 dB  
Volume Control: full on



Input sound pressure level: 60 dB  
Volume Control: RTG  
Matrix: 120/55/10, 20



Input signal: 1600 Hz  
Volume Control: as shown



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

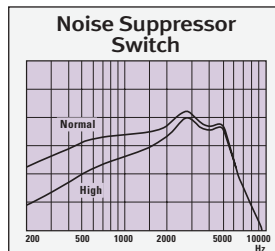
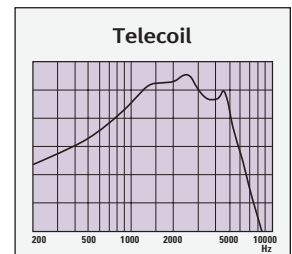
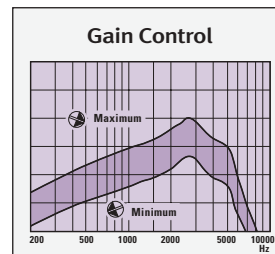
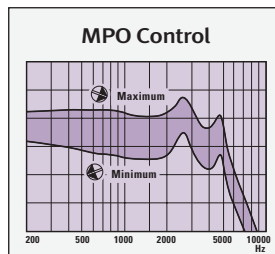
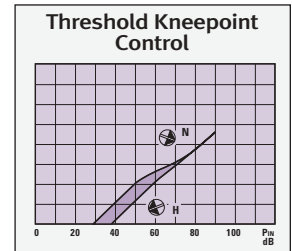
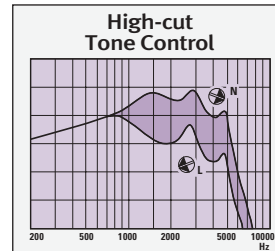
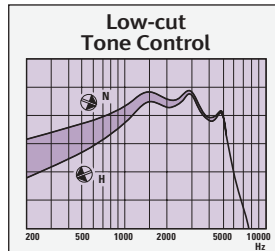
### VC Sizes

- 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.

