



Unison Essential BTE Series

**1 Program
3 Channels with 6 Bands, Digital WDRC³**

HEARING AID FEATURES

- 3 channels and 6 bands provide flexibility for fitting wide range of audiometric configurations
- Digital Wide Dynamic Range Compression (Digital WDRC³)
- Multiband quiet mode expansion reduces gain for very soft inputs, yet preserves moderately soft inputs such as speech for more pure, natural sound
- Intelligent power management responds to environmental inputs more efficiently to maximize battery life
- Choice of moderate gain, power or high power versions
- 1 program + telecoil program
- Telecoil (T) mode or Microphone/Telecoil (MT) mode fixed in telecoil program
- Wearers choose program through push button; audible beep confirms selection
- Ideal volume indicator provides beep notification when correct gain is reached on the volume control
- Manual volume control that can be disabled through Unifit™
- Off position in volume control on high power
- Low battery warning
- Direct audio input - MLx compatible
- Battery size 13; high power 675
- Unison Essential can be programmed using Noah-compatible Unifit software or standalone version of Unifit

OPTIONS

- WiFi Mic digital wireless CROS/BiCROS system available with moderate and power versions
- Tamper resistant battery door
- Tamper resistant volume control
- Filtered earhook
- Choice of shell colours
- Direct audio input battery door unit

Fitting Guide

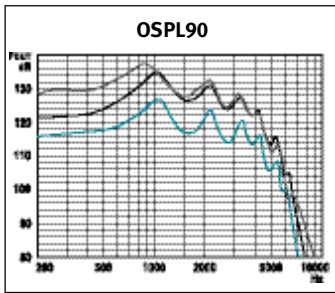
SUITABLE FOR FITTING MILD TO PROFOUND HEARING LOSSES

High Power

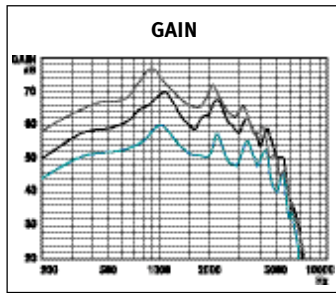
Can fit audiogram configurations ranging from reverse to precipitously sloping

ANSI 3.22 - 1996 TECHNICAL DATA				
Styles	Unison Essential	Unison Essential P	Unison Essential HP	
Frequency Range (Hz)	200-5800	200-6000	200-5100	
Peak Gain	60 dB	70 dB	76 dB	
Peak Output	127 dB	135 dB	138 dB	
Reference Test Gain	40 dB	48 dB	53 dB	
HF-Average Gain	54 dB	63 dB	68 dB	
HF-Average OSPL90	117 dB	125 dB	130 dB	
Typical Battery Life (Zinc Air Premium)	260 h	240 h	500 h	
Current Drain at RTP	1.1 mA	1.2 mA	1.2 mA	
Telephone Magnetic Field Simulator				
HFA SPLITS	97 dB	106 dB	112 dB	
STS SPLITS	-3.0 dB	-2.0 dB	-1.0 dB	
Equivalent Input Noise at RTP	15 dB	15 dB	15 dB	
Total Harmonic Distortion at RTP				
500 Hz typical 3%	< 5%	< 7%	< 5%	
800 Hz typical 1%	< 5%	< 5%	< 5%	
1600 Hz typical 1%	< 5%	< 5%	< 5%	
Fast Time Constant				
Attack Time	< 40 ms	< 40 ms	< 40 ms	
Release Time	100 ms	100 ms	50 ms	
Slow Time Constant				
Attack Time	250 ms	250 ms	250 ms	
Release Time	300 ms	300 ms	300 ms	
Compression Ratio				
Wide Dynamic Range Compression	4:1 to 1:1	4:1 to 1:1	4:1 to 1:1	

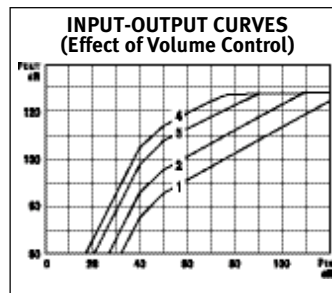
UNISON ESSENTIAL DIGITAL BTE SERIES ANSI S3.22 – 1996 SPECIFICATIONS



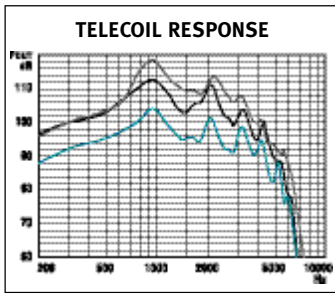
Input sound pressure level: 90 dB
Volume control: full on



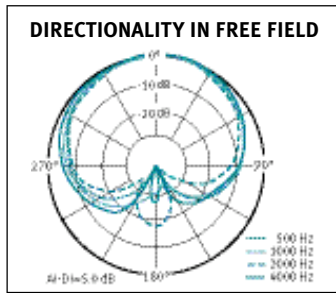
Input sound pressure level: 50 dB
Volume control: full on



Unison 3P Input at 2000 Hz
Volume control: as shown



Input 31.6 mA/m
Volume control: RTP



- Unison Essential
- Unison Essential P
- Unison Essential HP

TEST CONDITIONS

ANSI-RTP: Reference Test Position of the Volume Control: 3.1
 BATTERY: 13 or 675 Zinc Air Premium
 SOURCE: Voltage 1.3 V
 Impedance 6 Ohms
 EARHOOK: Unfiltered
 TUBING: Length 25 mm,
 Inside Diameter 1.93 mm
 Refer to: "Summary of Test Conditions and Limits" for more details.

AID MARKING:

Unison Essential
 Unison Essential P
 Unison Essential HP

COMPLIANCE

Our products are designed to meet all of the limits required when tested in accordance with the applicable standard.

REFERENCES

ASA: Acoustical Society of America,
 ANSI S3.22-1996
 FDA: Food & Drug Administration,
 Part 801

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

This product is manufactured under the protection of U.S. Patent #4349082 & #5204917.

Caution: Hearing aids and batteries can be harmful if swallowed or improperly used.

Sound pressure level of this hearing aid exceeds 132 dB SPL.



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