



Unison Essential Custom

1 Program

3 Channels with 6 Bands, Digital WDRC³

HEARING AID FEATURES

- 3 channels and 6 bands for fitting a wide range of audiometric configurations
- Digital Wide Dynamic Range Compression (Digital WDRC³)
- Intelligent power management responds to environmental inputs more efficiently to maximize battery life
- Multi-channel quiet mode expansion reduces gain for very soft inputs, yet preserves moderately soft inputs such as speech for more pure, natural sound
- 1 program + optional telecoil program
- Wearers choose telecoil program through push button; audible beep confirms selection
- Low battery warning
- Manual volume control can be disabled in Unifit™
- Ideal volume indicator provides beep notification when correct gain is reached on the volume control
- Unison Essential can be programmed using Noah-compatible Unifit or standalone Unifit

OPTIONS

- Telecoil (T) mode or Microphone/Telecoil (MT) mode fixed in additional telecoil program. Offered with canal, half-shell, and full-shell
- Easy t-coil for automatic telecoil operation

Fitting Guide

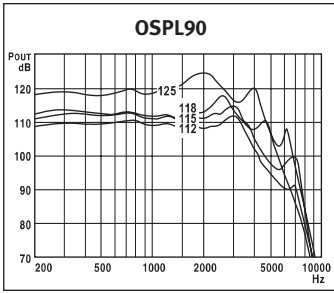
SUITABLE FOR FITTING MILD TO SEVERE HEARING LOSSES

Full-shell Half-shell
Canal Mini-canal CIC

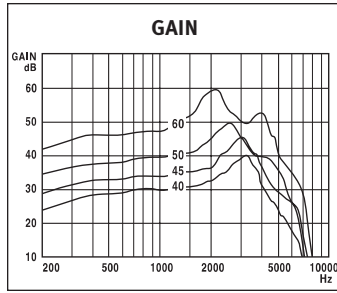
Can fit audiogram configurations ranging from reverse to precipitously sloping.

ANSI S3.22-1996 TECHNICAL DATA					
Styles	CIC	Mini-canal	Canal/ Half-shell	Full-shell	Full-shell power
Frequency Range (Hz)	200-7500	200-7500	200-7500	200-7000	200-7000
Peak Gain	40 dB	45 dB	45 dB	50 dB	60 dB
Peak Output	112 dB	112 dB	115 dB	118 dB	125 dB
Reference Test Gain	32 dB	32 dB	35 dB	36 dB	43 dB
HF Average Gain	32 dB	36 dB	37 dB	43 dB	52 dB
HF Average OSPL ₉₀	109 dB	109 dB	112 dB	113 dB	120 dB
Typical Battery Life (Zinc Air Premium)	90 h	90 h	150 h	290/150 h	240 h
Current Drain at RTP	1.0 mA	1.0 mA	1.0 mA	1.0 mA	1.2 mA
Telephone Magnetic Field Simulator					
HFA SPLITS	N/A	92 dB	93 dB	95 dB	103 dB
STS SPLITS		0 dB	-4 dB	-1.0 dB	-1.0 dB
Equivalent Input Noise at RTP	20 dB	19 dB	21 dB	20 dB	20 dB
Total Harmonic Distortion at RTP					
500 Hz	typical 3%	5%	5%	5%	5%
800 Hz	typical 1%	4%	4%	4%	7%
1600 Hz	typical 1%	4%	4%	4%	4%
Fast Time Constant					
Attack Time					40 ms
Release Time					100 ms
Slow Time Constant					
Attack Time					200 ms
Release Time					300 ms
Compression Ratio					
Wide Dynamic Range Compression					4:1 to 1:1

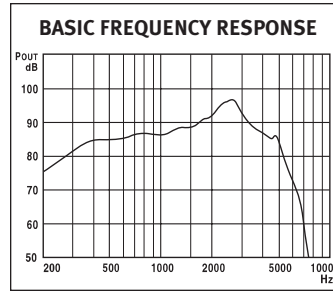
UNISON ESSENTIAL CUSTOM DIGITAL ANSI S3.22 – 1996 SPECIFICATIONS



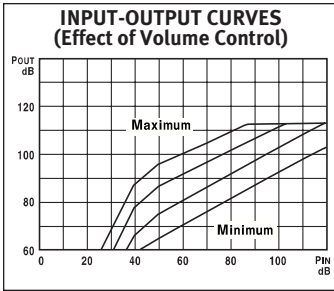
Input sound pressure level: 90 dB
Volume control: full on



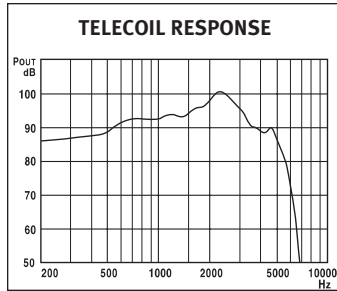
Input sound pressure level: 50 dB
Volume control: full on



*Input sound pressure level: 50 dB
Volume control: RTP



*Input : at 2000 Hz
Volume control: as shown



*Input 31.6 mA/m
Volume control: RTP

*Note: The performance was measured based on Unison Essential full shell 118/50

TEST CONDITIONS

ANSI-RTP: Reference Test Position of the Volume Control
BATTERY: 13 Zinc Air Premium
SOURCE: Voltage 1.3 V
Impedance 6 Ohms
COUPLER: HA-1
VENT: Closed at canal end
Refer to: "Summary of Test Conditions and Limits" for more details.

AID MARKING: Unison Essential

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 and Drug Administration, Part 801

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

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

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



CORPORATE OFFICE
Kitchener, Ontario, Canada
877 492 6244; 519 895 0100

CANADA
Cambridge, Ontario
800 265 8255; 519 650 9111

EUROPE
Bremen, Germany
49 421 43 87 90

INTERNATIONAL
Kitchener, Ontario, Canada
877 492 6244; 519 895 0100

NETHERLANDS
Nieuwegein, The Netherlands
+31 (0) 30 604 9325

UK
Warrington, Cheshire, England
01925 247810

U.S.A.
Plymouth, Minnesota
800 888 8882; 763 744 3300

www.unitronhearing.com