

PERSONAL ACOUSTIC ENCLOSURE



Key Features

- # Compact for efficient storage
- # Fully portable, fits through any door frame
- # Easy access for elderly or disabled patients
- # Adjustable seating height allowing for multi chairs
- # Accommodates the 95th percentile human dimensions
- # Solid construction for increased durability
- # Maximum comfort and freedom
- # Dimensions: Width: 660mm
Depth: 880mm
Height: 1580mm (with casters)
Weight: 120kg

*Ergonomically designed for
increased performance and reliability*

Sonic Innovations has developed a new low cost Personal Acoustic Enclosure, meeting strict government standards for audiometric testing.

The Personal Acoustic Enclosure (PAE) eliminates huge cost and space limitations for a diverse range of testing situations including medical centres, optical centres, and stand-alone outlets.

Developed by Tectvs Architecture and an acoustic engineer, the PAE is designed specifically for audiometric evaluations.

The PAE is available in several versions depending on features and optional extras ordered. It is ergonomically designed for increased performance and reliability and is affordably priced for Hearing Aid Dispensers, medical practitioners and industrial applications.

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 **SONIC**
Everyday Sounds Better

Specifications

The outstanding design response has also included:

4 panel socket (internal & external)

Adjustable seat



Caster legs
For easy mobility

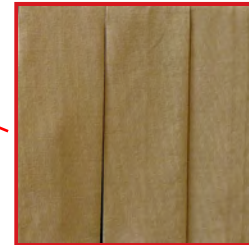


PAE front view
Right hand door opening

Clear vision
Perspex door



High density lined
acoustic curtain



Results

The insertion loss (IL) of the Acoustic booth is calculated as Insertion loss = SPL of Reverberant Chamber - SPL inside Acoustic Booth.

Freq.	un-manned	manned
50	-1.9	-3.9
63	-1.5	-3.2
80	2.5	-1.3
100	9.1	3.9
125	15.1	10.9
160	15.0	13.3
200	13.9	14.3
250	15.2	14.6
315	19.3	18.2
400	20.6	20.3
500	19.3	19.9
630	21.0	18.7
800	21.7	18.6
1000	20.7	19
1250	16.6	17.6
1600	18.7	19.4
2000	22.0	22.7
2500	21.1	22.1
3150	20.7	20.7
4000	21.9	22.1
5000	22.0	22.4
6300	24.1	24.5
8000	23.8	23.9
10000	24.8	25.1

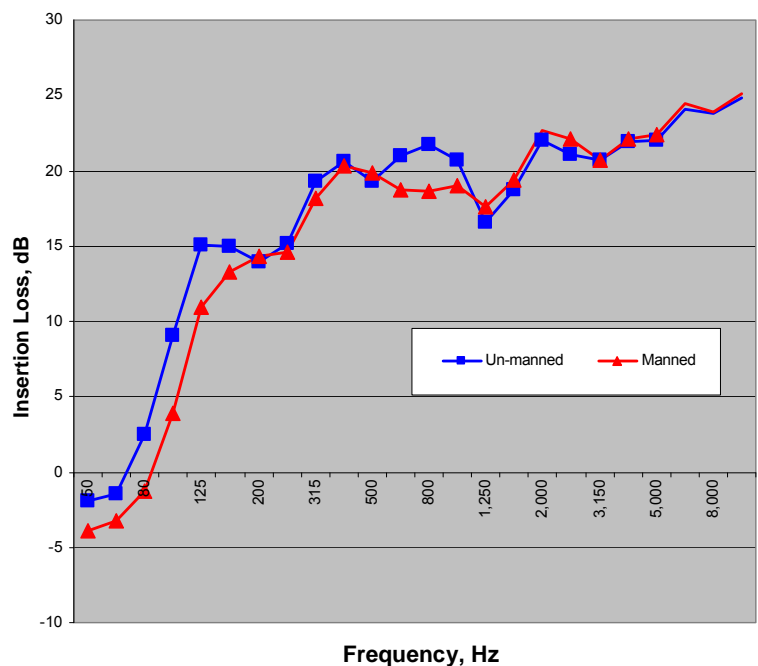


Table (above). Calculated IL for the un-manned, and manned acoustic-booth

Graph of insertion loss for the acoustical booth manned and un-manned.