Phonak Virto V-10 (V90/V70/V50/V30) (M)

Technical Data

Compact custom product, battery size 10. For fitting range, product details and available options, please see Product Information or visit www.phonakpro.com.

Unless otherwise specified, all data obtained are measured with 5 mm tubing and Phonak Target measurement settings.

Ear simulator data
EN / IEC 60118 and IEC 60711

Output sound pressure level

- Maximum 120 dB SPL
- 1600 Hz 111 dB SPL

Full on gain
(Input 90 dB SPL)

Acoustic gain

- Maximum 50 dB
- 1600 Hz 43 dB
- RTG 36 dB

Full on gain
(Input 50 dB SPL)

Reference test gain
(Input 60 dB SPL)

Frequency range <100 Hz - 8000 Hz

Total harmonic distortion 500 Hz 800 Hz 1600 Hz
2% 2.5% 2%

Battery current Quiescent 1.1 mA Working 1.2 mA

Equivalent input noise level 19 dB SPL

Induction coil sensitivity

- Maximum 80 dB SPL
- 1600 Hz 73 dB SPL

Reference test gain
(Input 1 mA/m)

Dynamic data

Compression 10 ms
Attack time 50 ms
Recovery time 10 ms

2cm³ coupler data
ANSI S3.22-2009

Output sound pressure level

- Nominal 105 dB SPL
- Maximum 112 dB SPL
- HFA 103 dB SPL

Full on gain
(Input 90 dB SPL)

Acoustic gain

- Maximum 40 dB
- HFA 35 dB
- RTG 26 dB

Full on gain
(Input 50 dB SPL)

Reference test gain
(Input 60 dB SPL)

Frequency range <100 Hz - 7000 Hz

Total harmonic distortion 500 Hz 800 Hz 1600 Hz
1% 1.5% 1%

Battery current Quiescent 1.1 mA Working 1.2 mA

Equivalent input noise level 19 dB SPL

Input / Output characteristics at 2000 Hz

Using pure tone measurements with a digital hearing instrument can result in a wavy frequency response. This is an artifact resulting from the use of a narrowband input signal and does not affect the actual performance with naturally occurring broadband input signals.

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Ear simulator data
EN / IEC 60118 and IEC 60711

Output sound pressure level
- Maximum
- 1600 Hz
- 118 dB SPL

Acoustic gain
- Maximum
- 1600 Hz
- 118 dB SPL
- RTG
- 43 dB

Frequency range <100 HZ - 6800 Hz

Total harmonic distortion
- 500 Hz
- 800 Hz
- 1600 Hz
- 1%
- 2%
- 1%

Battery current
- Quiescent
- 1 mA
- Working
- 1.1 mA

Equivalent input noise level 19 dB SPL

Induction coil sensitivity
- Maximum
- 1600 Hz
- 94 dB SPL
- (Input 1 mA/m)
- Reference test gain
- (Input 31.6 mA/m)

Dynamic data
- Compression
- Attack time
- Recovery time
- 10 ms
- 50 ms

2cm³ coupler data
ANSI S3.22-2009

Output sound pressure level
- Nominal
- 115 dB SPL
- Maximum
- 118 dB SPL
- HFA
- 111 dB SPL

Full on gain
- (Input 90 dB SPL)

Acoustic gain
- Maximum
- 50 dB
- HFA
- 46 dB
- RTG
- 34 dB

Frequency range <100 HZ - 6700 Hz

Total harmonic distortion
- 500 Hz
- 800 Hz
- 1600 Hz
- 1%
- 1%
- 1%

Battery current
- Quiescent
- 1.1 mA
- Working
- 1.2 mA

Equivalent input noise level 19 dB SPL

Induction coil sensitivity
- HFA
- 94 dB SPL
- TLS
- 0 dB

Full on gain
- (Input 31.6 mA/m)

Dynamic data
- Compression
- Attack time
- Recovery time
- 10 ms
- 50 ms

Input / Output characteristics at 2000 Hz
- Full-on-gain
- Reference test gain
Phonak Virto V-10 (V90/V70/V50/V30) (SP)

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**Ear simulator data**
EN / IEC 60118 and IEC 60711

**Output sound pressure level**
- Maximum 129 dB SPL
- 1600 Hz 120 dB SPL
- Frequency range <100 Hz - 7700 Hz
- Total harmonic distortion 500 Hz 800 Hz 1600 Hz 1% 1.5% 1%
- Battery current Quiescent 1.1 mA Working 1.2 mA
- Equivalent input noise level 19 dB SPL

**Acoustic gain**
- Maximum 70 dB 61 dB 45 dB
- Frequency range <100 Hz - 7700 Hz
- Total harmonic distortion 500 Hz 800 Hz 1600 Hz 1% 1.5% 1%
- Battery current Quiescent 1.1 mA Working 1.2 mA
- Equivalent input noise level 19 dB SPL

**Induction coil sensitivity**
- Maximum 100 dB SPL 91 dB SPL
- Frequency range <100 Hz - 7700 Hz
- Total harmonic distortion 500 Hz 800 Hz 1600 Hz 1% 1.5% 1%
- Battery current Quiescent 1.1 mA Working 1.2 mA
- Equivalent input noise level 19 dB SPL

**Dynamic data**
- Compression 10 ms
- Attack time 50 ms

**2cm³ coupler data**
ANSI S3.22-2009

**Output sound pressure level**
- Nominal 119 dB SPL
- Maximum 122 dB SPL
- HFA 114 dB SPL

**Acoustic gain**
- Maximum 60 dB 54 dB 37 dB
- Frequency range <100 Hz - 7000 Hz
- Total harmonic distortion 500 Hz 800 Hz 1600 Hz 1% 1% 1%
- Battery current Quiescent 1.1 mA Working 1.2 mA
- Equivalent input noise level 19 dB SPL

**Induction coil sensitivity**
- Maximum 96 dB SPL -1 dB
- Frequency range <100 Hz - 7000 Hz
- Total harmonic distortion 500 Hz 800 Hz 1600 Hz 1% 1% 1%
- Battery current Quiescent 1.1 mA Working 1.2 mA
- Equivalent input noise level 19 dB SPL

**Dynamic data**
- Compression 10 ms
- Attack time 50 ms

**Input / Output characteristics at 2000 Hz**
- Full-on-gain
- Reference test gain

Using pure tone measurements with a digital hearing instrument can result in a wavy frequency response. This is an artifact resulting from the use of a narrowband input signal and does not affect the actual performance with naturally occurring broadband input signals.