Technical Data

Phonak Sky Q-UP (Q90/Q70/Q50) (HE7)

WaterResistant compact UltraPower BTE, battery size 675 (for fitting range, product details and available options, please see Product Information or visit www.phonakpro.com).

Warning to hearing care professionals:
This hearing instrument has an output sound pressure level that can exceed 132 dB SPL. Special care should be taken when fitting this instrument as there is a risk of impairing the residual hearing of the user.

Unless otherwise specified, all data obtained are measured with the hook type HE7 and Phonak Target measurement settings.

Ear simulator data
EN / IEC 60118 and IEC 60711

Output sound pressure level

<table>
<thead>
<tr>
<th>Frequency range</th>
<th>Output sound pressure level (dB SPL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Hz - 5000 Hz</td>
<td></td>
</tr>
<tr>
<td>500 Hz</td>
<td>144 dB SPL</td>
</tr>
<tr>
<td>800 Hz</td>
<td>136 dB SPL</td>
</tr>
<tr>
<td>1600 Hz</td>
<td>136 dB SPL</td>
</tr>
</tbody>
</table>

Acoustic gain

<table>
<thead>
<tr>
<th>Frequency range</th>
<th>Acoustic gain (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Hz - 5000 Hz</td>
<td>Maximum 85 dB, 1600 Hz 77 dB, 1000 Hz 61 dB</td>
</tr>
</tbody>
</table>

Total harmonic distortion

<table>
<thead>
<tr>
<th>Frequency range</th>
<th>Total harmonic distortion</th>
</tr>
</thead>
<tbody>
<tr>
<td>500 Hz</td>
<td>4%</td>
</tr>
<tr>
<td>800 Hz</td>
<td>3%</td>
</tr>
<tr>
<td>1600 Hz</td>
<td>2%</td>
</tr>
</tbody>
</table>

Battery current

<table>
<thead>
<tr>
<th>Current level</th>
<th>Quiescent</th>
<th>Working</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current level</td>
<td>1.1 mA</td>
<td>2.5 mA</td>
</tr>
</tbody>
</table>

Equivalent input noise level

| Equivalent input noise level | 19 dB SPL |

Induction coil sensitivity

<table>
<thead>
<tr>
<th>Frequency range</th>
<th>Induction coil sensitivity (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Hz</td>
<td>Maximum 115 dB, 1600 Hz 108 dB</td>
</tr>
</tbody>
</table>

Dynamic data

<table>
<thead>
<tr>
<th>Compression</th>
<th>Attack time</th>
<th>Recovery time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ms</td>
<td>50 ms</td>
<td></td>
</tr>
</tbody>
</table>

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.

2 cm³ coupler data
ANSI S3.22-2009

Output sound pressure level

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<tr>
<th>Frequency range</th>
<th>Output sound pressure level (dB SPL)</th>
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<tbody>
<tr>
<td>100 Hz - 4000 Hz</td>
<td></td>
</tr>
<tr>
<td>500 Hz</td>
<td>132 dB SPL</td>
</tr>
<tr>
<td>800 Hz</td>
<td>142 dB SPL</td>
</tr>
<tr>
<td>1600 Hz</td>
<td>133 dB SPL</td>
</tr>
</tbody>
</table>

Acoustic gain

<table>
<thead>
<tr>
<th>Frequency range</th>
<th>Acoustic gain (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Hz - 4000 Hz</td>
<td>Maximum 62 dB, 1600 Hz 73 dB, 1000 Hz 56 dB</td>
</tr>
</tbody>
</table>

Total harmonic distortion

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<tr>
<td>800 Hz</td>
<td>2%</td>
</tr>
<tr>
<td>1600 Hz</td>
<td>1%</td>
</tr>
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</table>

Battery current

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<th>Current level</th>
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Equivalent input noise level

| Equivalent input noise level | 19 dB SPL |

Induction coil sensitivity

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<tr>
<th>Frequency range</th>
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<tr>
<td>100 Hz</td>
<td>Maximum 117 dB, 1600 Hz 1 db</td>
</tr>
</tbody>
</table>

Dynamic data

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<tr>
<th>Compression</th>
<th>Attack time</th>
<th>Recovery time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 ms</td>
<td>50 ms</td>
<td></td>
</tr>
</tbody>
</table>

Input / Output characteristics at 2000 Hz

<table>
<thead>
<tr>
<th>Frequency range</th>
<th>Pout (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Hz</td>
<td>80</td>
</tr>
<tr>
<td>1000 Hz</td>
<td>90</td>
</tr>
<tr>
<td>10000 Hz</td>
<td>110</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frequency range</th>
<th>Pin (dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 Hz</td>
<td>40</td>
</tr>
<tr>
<td>1000 Hz</td>
<td>50</td>
</tr>
<tr>
<td>10000 Hz</td>
<td>70</td>
</tr>
</tbody>
</table>