# Quantum™ E

## Micro BTE

## Signature features

**6 channels**

**SmartFocus**

Available within each manual program and is a fitter adjustable control for comfort or clarity

**Natural Sound Balance**

An adaptive feature to minimize artifacts that can occur when amplified sound combines in the ear canal with direct sound. Natural Sound Balance continuously monitors these sounds and makes precision adjustments to preserve a clear, balanced signal

**Automatic Adaptation Manager**

Allows for an automatic and smooth adjustment period for the client; providing the best possible first fit acceptance combined with maximum long-term benefit for speech understanding

**Feedback manager**

Feedback manager offers maximum usable gain by suppressing feedback transients before they become audible

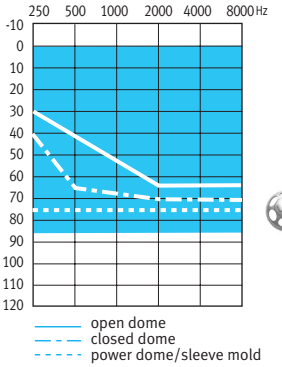
**Wireless technology**

**DuoLink** – adjustments conducted on one hearing instrument are automatically transferred to the other ear

## Additional features

- 4 manual programs
- Adaptive directional microphone
- AntiShock™
- MyMusic™
- Wind noise manager
- Speech enhancement LD
- Noise reduction
- Data logging
- Optional Unitron remote control
- Optional wireless programming with iCube
- IntelliVent technology available on custom ear pieces

## Fitting guides




Quantum E M micro BTE

Quantum E micro BTE is suitable for fitting mild to severe hearing losses and can fit audiogram configurations ranging from reverse to precipitously sloping.

CE 0543 12-014 027-5705-02

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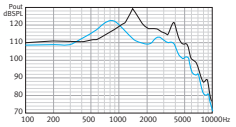
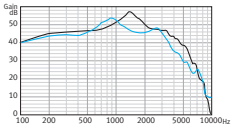
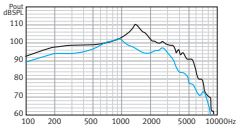
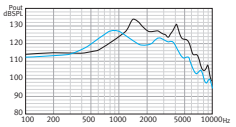
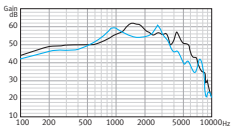
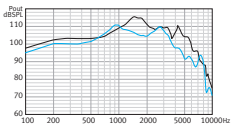
# Quantum E micro BTE

| | Quantum E M micro BTE (slim tube) | Quantum E M micro BTE (earhook) |
|---|---|---|

## ANSI 3.22 2003/IEC 118-7 2CC COUPLER TECHNICAL DATA

| | | |
|---|---|---|
| Reference test frequency - IEC 118-7 (kHz) | 1.6 | 1.6 |
|  **OSPL90** | | |
| Maximum (dB SPL) | 126 | 133 |
| Nominal (dB SPL) | 123 | 130 |
| ANSI HFA (dB SPL) | 114 | 120 |
| at RTF (dB SPL) | 111 | 125 |
|  **Full on gain (input 50 dB SPL)** | | |
| Maximum (dB) | 54 | 57 |
| ANSI HFA (dB) | 48 | 50 |
| at RTF (dB) | 45 | 53 |
|  **Basic frequency response (ANSI 2003)** | | |
| Frequency range (Hz) | ‹ 100-5600 | ‹ 100-6000 |
| Reference test gain (dB) | 37 | 43 |
| Current drain at RTG (mA) | 1.2 | 1.25 |
| Typical battery life (h) | 140 | 136 |
| Equivalent input noise at RTG (dB SPL) | 19 | 19 |
| Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) | 1/.5/.5 | 2/1/.5 |
| **Electromagnetic compatibility** | | |
| EMC immunity by ANSI c63.19-2001 EMC, omni | M4 | M4 |

## IEC 118-0 OES COUPLER TECHNICAL DATA

| | | |
|---|---|---|
| Reference test frequency - IEC 118-0 (kHz) | 1.6 | 1.6 |
|  **OSPL90** | | |
| Maximum (dB SPL) | 128 | 133 |
| at RTF (dB SPL) | 120 | 132 |
|  **Full on gain (input 50 dB SPL)** | | |
| Maximum (dB) | 60 | 62 |
| at RTF (dB) | 54 | 61 |
|  **Basic frequency response** | | |
| Frequency range (DIN 45605) (Hz) | ‹ 100-6000 | ‹ 100 -7100 |
| Reference test gain (dB) | 45 | 54 |
| Current drain at RTG (mA) | 1.2 | 1.2 |
| Typical battery life (h) | 140 | 140 |
| Equivalent input noise at RTG (dB SPL) | 19 | 19 |
| Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%) | 1/.5/1 | 2/1/1 |
| **Electromagnetic compatibility** | | |
| EMC immunity by IEC 60118-13, field strength 75/50 V/m, omni IRIL low/high band (dB SPL) | 25/26 | 25/26 |

## LEGEND

Quantum E micro BTE with slim tube

Quantum E micro BTE with earhook

## TEST CONDITIONS

Battery size: 312; Source: voltage 1.3 V

The measurements obtained with closed configuration using an HA-1 coupler (ANSI-3.7-1995) or occluded ear simulator (EN 60711, coupling arrangement according to fig.4 in the test standard)

Measurement data obtained with hearing aid set to linear, omni mode with all adaptive features disabled.

Domes should never be fit on patients with perforated eardrums, exposed middle ear cavities, or surgically altered ear canals. In the case of such a condition, we recommend use of a customized earmold.

Sound pressure level of these hearing aids exceeds 132 dB SPL.

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