





## Product Comparison Matrix

|   |  |  |  |  |
|---|---|--|---|---|
|   | Q-NRG+  | Q-NRG  | Quark RMR   | Fitmate   |
| <b>Product Type</b>   |   |  |   |   |
| Standalone  | ●   | ●  |   | ●   |
| PC based  | ○   | ○  | ●   | ●   |
| <b>Patient Type</b>   |   |  |   |   |
| Mechanically ventilated   | ●   |  | ○   |   |
| Spontaneously breathing   | ○   | ●  | ●   | ●   |
| <b>Available Test Mode</b>  |   |  |   |   |
| Ventilator  | ●   |  | ○   |   |
| Canopy Hood   | ○   | ●  | ●   | ○   |
| Face Mask   | ○   | ○  | ○   | ●   |
| Antiviral/Antibacterial Filter                                      | ○   | ○  | ○   | ○   |
| <b>Gas Sensors Technology</b>                                       |   |  |   |   |
| Oxygen (O <sub>2</sub> )  | GFC   | GFC  | Paramagnetic  | GFC   |
| Carbon Dioxide (CO <sub>2</sub> )                                   | NDIR  | NDIR   | NDIR  |   |
| <b>Flowmeter Technology</b>   |   |  |   |   |
| Flowmeter - Vent  | Disposable PNT (FlowREE)  |  | Disposable PNT (FlowREE)  |   |
| Flowmeter - Canopy/Mask   | Digital bidirectional turbine   | Digital bidirectional turbine  | Digital bidirectional turbine   | Digital bidirectional turbine   |
| <b>Hardware</b>   |   |  |   |   |
| Display   | 10.1" Transmissive TFT LCD, capacitive touch screen                               |  | PC Monitor  | Color LCD 320x240 pixel   |
| Battery   | Rechargeable Li-Ion   |  |   | Rechargeable Li-Ion   |
| Power   | 100-240V ± 10%  |  | 100-240V ± 10%  | 100-240V ± 10%  |
| Printer   | External printer  |  | External printer  | Built-in high-speed thermal printer or PC   |
| Wired connectivity  | USB (2 x Host Type), RS-232, LAN  |  | USB, RS-232   | USB   |
| Wireless connectivity   | Bluetooth 2.1   |  |   |   |
| Weight and Dimensions   | 4.65 kg 31x21x27cm  |  | 8 kg - 17x30x45 cm  | 1.5 kg - 24x20x8 cm   |
| <b>Options</b>  |   |  |   |   |
| Canopy Hood, Pediatric  | ○   | ○  | ○   |   |
| Cart  | Q-NRG cart  | Q-NRG cart   | Medical grade   | Fitmate cart  |
| Pole/Rail/Clamp   | ○   | ○  |   |   |
| <b>Software</b>   |   |  |   |   |
| Name  | OMNIA (option)  | OMNIA (option)   | OMNIA   | Fitmate Suite   |
| Operating System  | Windows 7, 8, 8.1, 10   | Windows 7, 8, 8.1, 10  | Windows 7, 8, 8.1, 10   | Windows XP, VISTA, Windows 7, 8, 10   |
| <b>Tests</b>  |   |  |   |   |
| <b>Indirect Calorimetry</b>   |   |  |   |   |
| Resting Energy Expenditure (REE, RMR)                               | ●   | ●  | ●   | ●   |
| Substrates Analysis (RQ, %FAT, %PRO, %CHO)                          | ●   | ●  | ●   |   |
| <b>Cardio Pulmonary Exercise Test (CPET)</b>                        |   |  |   |   |
| VO <sub>2</sub> max, sub-max VO <sub>2</sub> , thresholds (AT, RCP) |   |  | ○   |   |
| <b>Spirometry</b>   |   |  |   |   |
| FVC, SVC, MVV, Bronchochallenge (Pre, Post)                         |   |  | ○   |   |
| <b>Other Tests</b>  |   |  |   |   |
| Pulse Oximetry (SpO <sub>2</sub> )                                  |   |  | ○   |   |
| Weight Management Program (Energy Balance)                          |   |  |   | ●   |
| PAL classification  |   |  |   | ●   |
| Diet Planner  |   |  |   | ●   |
| Standardized Measurements (WHR, BP, RHR, etc)                       |   |  |   | ●   |
| Body composition by Skinfold (Formulas)                             |   |  |   | ●   |

● Standard ○ Upgrade