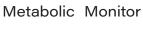
## Q-NRG<sup>TM</sup>





## **Technical Specifications**

Product	Description	REF
Q-NRG	Metabolic Monitor	C09092-01-99
Standard packaging	Q-NRG unit, Canopy Hood with hose, USB cable, power cable, fuses, Q-NRG + cover, User Manual	
Indications for use	Resting Energy Expenditure (REE) measurement with limitations in accordance with labeling, within the following population: Canopy mode: spontaneously breathing subjects > 15Kg Mask mode: spontaneously breathing subjects > 6 years and 10Kg	
Measurements		
Indirect Calorimetry in	Resting Energy Expenditure (REE, RMR) with canopy hood, Respiratory Quotient (RQ),	
Canopy mode (standard)	Substrates Analysis (%FAT, %PRO, %CHO)	
Indirect Calorimetry in	Resting Energy Expenditure (REE, RMR) with oro-nasal face mask or mouthpiece, Respiratory	
Mask mode (optional)	Quotient (RQ), Substrates Analysis (%FAT, %PRO, %CHO)	
Main Parameters	Range	Accuracy
VO <sub>2</sub>	10-1000 mL/min	±3% or 5mL/min
VCO <sub>2</sub>	10-1000 mL/min	±3% or 5mL/min
RQ REE	0-2.00 0-7200 kcal/day	±5% or 0.04 ±3% or 36 kcal/day
Flowmeter	ID 18	±370 01 30 kcal/day
Type	Bidirectional digital turbine	
Flow range	0-6 L/s	
Flow accuracy	±2% or ±20 mL/s	
Ventilation range	0-60 L/min	
Ventilation accuracy	±2% or ±100 mL/min	
Resistance	<0.45 cmH <sub>2</sub> 0 s/L @ 1 L/s	
Calibration	With 3L calibration syringe (monthly)	
Gas Analyzers	Oxygen (0 <sub>2</sub> )	Carbon Dioxide (CO <sub>2</sub> )
Sampling mode	Micro Dynamic Mixing Chamber (patented)	
Туре	Galvanic Fuel Cell (GFC)	Digital NDIR
Range	0-75%	0-10%
Accuracy	±0.05% Vol. or ±0.3%	±0.05% Vol. or ±1%
Resolution	±0.01% Vol.	±0.01% Vol.
Calibration	Automatic with gas cylinder (monthly)	
Report	LICD Divistorath	
Export modes	USB, Bluetooth	
Export formats	PDF, CSV, XML	
Hardware	21,21,27 and 4 CF Va	
Dimensions & Weight	31x21x27 cm, 4.65 Kg 10.1"Transmissive TFT LCD, 1024x600, 65k colors, capacitive touch screen	
Display	Battery: Li-lon "smart" (3 hours autonomy)	
Power	Mains: 100V-240V ±10%; 50/60Hz, 100-130 VA	
Wireless Connectivity	Bluetooth 2.1 + EDR Class II (range 10 m line-of-sight)	
Wired Connectivity	1 USB-device (5 kV galvanic insulated), 2 x USB Host, RS-232 (5 kV galvanic insulated), LAN (5 kV galvanic insulated)	
Environmental ranges	Temp. +10°C to +35°C. Humidity: 5-93% (non condensing). Atmospheric pressure:	
(operating)	700hPa-1060hPa (up to 3011m)	
Embedded Software		
Languages	English, Spanish, Portuguese, Dutch, Polish, Dar	nish, French, Italian, Japanese, German, Chinese

**(€** 0476



MDD (93/42/EEC Class IIa), MDR (2017/745) pending; FDA 510(k), Safety (IEC 60601-1 Class I), EMC (IEC 60601-1-2), Telemetry (ETSI EN 301 489-1, ETSI EN 301 489-17), FCC, IC



## **COSMED Srl**

Via dei Piani di Monte Savello 37 Albano Laziale - Rome 00041

Distributed by

+39 (06) 931-5492 Phone

+39 (06) 931-4580 Fax

cosmed.com

