



Technical Specifications

Product	Description	REF
Fitmate MED	Clinical desktop metabolic monitor	C09066-03-99
Standard packaging	Fitmate unit, AC/DC Adapter, flowmeter ID18, flowmeter ID28, oxygen sensor, thermal paper, cables, Fitmate PC Software, Fitmate case, measuring tape, mask (M), headcap (S/M), ANT+™ HR belt	
Standard Measurements		
Cardio Pulmonary Exercise Test (CPET)	VO ₂ max, Sub-max VO ₂ , Anaerobic Threshold, Heart Rate	
Nutritional Assessment	Resting Energy Expenditure (REE, RMR) with mouthpiece or face mask, Weight Management Program (Energy Balance), Diet Planner, Standardized Measurements (WHR, BP, RHR, etc)	
Spirometry	Forced Vital Capacity (FVC) Pre/Post/Challenge, Slow Vital Capacity (SVC) Pre/Post, Maximum Voluntary Ventilation (MVV)	
Fitness Assessment	Standardized Measurements (WHR, BP, RHR, etc), Body composition by Skinfold	
Exercise Prescription	VO ₂ /HR Training Zones (based on AT), Recommended Exercise Intensity for Cardiac Rehab	
CV Risk Analysis	Framingham Index, Duke Score, Bode Index, European Cardio Score	
Hardware		
Dimensions & Weight	198x235x66 mm / 1.4kg	
Ports	USB-A, USB-B, RS-232, HR-TTL	
Display	Color backlight LCD, 320 x 240 pixel	
Printer	Built-in high speed thermal printer	
Battery	Rechargeable Li-Ion, 7.4V, 2600 mAh	
Electrical Requirements	100-240V, 50/60 Hz	
Flowmeter	ID 28 (CPET)	ID 18 (RMR/REE)
Type	Bidirectional Digital Turbine	Bidirectional Digital Turbine
Flow range	0.08-20 L/s	0.02-6 L/s
Flow accuracy	± 2% or 20 mL/s	± 2% or 20 mL/s
Ventilation range	0.08-300 L/min	0.04-50 L/min
Ventilation accuracy	± 2% or 200 mL/min	± 2% or 100 mL/min
Resistance	<0.6 cmH ₂ O /L/s @ 14L/s	<0.27 cmH ₂ O/L/s @ 1L/s
Gas Analyzers	Oxygen (O ₂)	
Type	GFC	
Range	0-25%	
Accuracy	±0.02% Vol.	
Resolution	0.01% Vol.	
Embedded Software		
Languages	Italian, English, Spanish, French, German, Portuguese, Greek, Dutch, Turkish, Chinese, Korean, Japanese, Finnish, Polish, Russian, Slovenian	
Software	Fitmate Suite	
Languages	Italian, English, Spanish, French, German, Portuguese, Greek, Dutch, Chinese, Korean, Japanese, Finnish, Russian, Slovenian	
PC requirements	Windows ® XP, Vista, 7, 8, 10 (32/64 bit), ≥1 USB	
Options/Accessories	Description	REF
Canopy Module	Canopy hood and blower for gold standard indirect calorimetry	C03950-01-11
Fitmate cart	Wheeled cart with basket and accessory shelf	C02950-01-11
Calibration syringe	3L certified syringe for measurement accuracy	C00600-01-11
O2 sensor replacement kit	O2 sensor, sampling line and mounting key	C02748-01-11
Pulse Oximetry	Oximeter (several probes available)	C02600-01-05
Heart Rate	HR receiver	C02636-01-06
	HR transmitter	A-661-200-002



Consumables	Description	REF
Antibacterial/Antiviral filter	Single use with oval mouthpiece (50 pcs.) Single use with round mouthpiece (50 pcs.)	A-182-300-005 A-182-300-004
Nose clip	Single use (25 pcs.)	A-662-100-001
Thermal paper	11 m rolls for thermal printer (10 pcs.)	A-196-056-001
Rubber mouthpiece	Single use (200 pcs.)	C00568-01-98
Face masks	Reusable oro-nasal mask (Petite, XS, S, M, L)	C0370X-01-10
Headcap	Reusable headcap (Petite/XS, S/M, L)	A-800-900-02X
Filter adapter	Reusable for tests with antibacterial/antiviral filters	C05085-01-20
Canopy veil	Single use veils (50 pcs.)	C04690-01-10
Sampling line	Reusable gas sampling line	C02807-01-08
O2 sensor	User replaceable O2 sensor	A-558-250-005
Safety & Quality Standards		
MDD (93/42 EEC); FDA 510(k); EN 60601-1 (safety) / EN 60601-1-2 (EMC)		



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