Turn your Fitmate into a gold standard calorimeter with the optional “Canopy module”!

The canopy hood module kit (optionally available for Fitmate line systems\(^1\)\(^2\)) allows to measure Resting Metabolic Rate via the dilution-technique, which is considered the “Gold Standard” for indirect calorimetry in clinical applications.

The use of a ventilated hood make the test highly comfortable allowing patients to breathe freely. The ventilated hood can also be used for long periods of time with minimal discomfort and no air leaks from the system.

The module consists of a large and comfortable transparent hood connected to a blower that guarantees air flow inside the hood. The blower pumps air in at a defined flow, chosen among five different flow rates dependent on subject weight.

The patient lies in bed and comfortably breathes inside the hood, where the expired gas dilutes with room air. A sample of this mixture is then conveyed to the turbine and sampling line in order to get ventilation parameters and oxygen concentration. The Fitmate GS screen prompts messages and security alerts when ventilation is not detected or when oxygen concentration is too low or too high, in this case the flow rate can be regulated by the blower in order to keep a steady concentration of O\(_2\) inside the hood.

For safety reasons the blower is equipped with 4 AA batteries (not rechargeable) to prevent failures due to lack of power.

The bubble shape and the removable blanket allow easy cleaning and disinfection of the canopy hood with a soft cloth and a non alcoholic detergent.

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**Application**

- Hospital Nutrition Support Team (NST)
- Critical care/ICU
- Burn units
- Eating disorders, Anorexia/Cachexia, Bariatric surgery
- Nutrition support in Home care, long-term care facilities, Nursing homes

**Related Products**

- Fitmate\(^1\)
- Fitmate PRO\(^2\)
- Fitmate MED\(^2\)

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\(^1\) available to all models starting from S/N 2009111000

\(^2\) available to all models starting from S/N 2009101000
Technical Specification

**Hardware**

- Dimensions: 46.8x32x22 cm
- Canopy Volume: 18.7 l
- Flow rate range: 12-44.4 l/min
- Blower internal battery: 4 AA

**Standard Packaging includes:**

- Canopy bubble hood, removable canopy veil, enhanced turbine with blower, alarm control board

**References**

- Nieman D. et al. "Validation of COSMED's Fitmate™ in measuring oxygen consumption and estimating resting metabolic rate". Research in Sports Medicine, 14: 1–8, 2006
- Luparski L., Singer P. et al. "Comparison between the Fit Mate metabolic system and the Deltrac II metabolic monitor in the measurement of resting energy expenditure and oxygen consumption in non-ventilated patients". Clinical Nutrition Supplements (January 2010), 5 (2), pg. 65-66

The canopy blower allows to select, before and during the test, the correct ventilation flow.

The LCD display shows in real time the measured values and, eventually, warning alerts.

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