

Vyntus® CPX

Canopy – Indirect Calorimetry

Food intake

Energy expenditure

WEIGHT MAINTENANCE



The Vyntus® CPX Canopy option is designed to provide highly accurate resting energy expenditure (REE) and substrate metabolism test data on spontaneous breathing patients using the dilution canopy method.

- HYGIENIC** – Sophisticated technology meets thoughtful hygiene concept
- ACCURATE** – Highly precise O₂- and CO₂-analyzer combined with comprehensive SentrySuite® software
- MODULAR** – For nutritional assessment only or in combination with Cardio Pulmonary Exercise Testing (CPET)



CareFusion

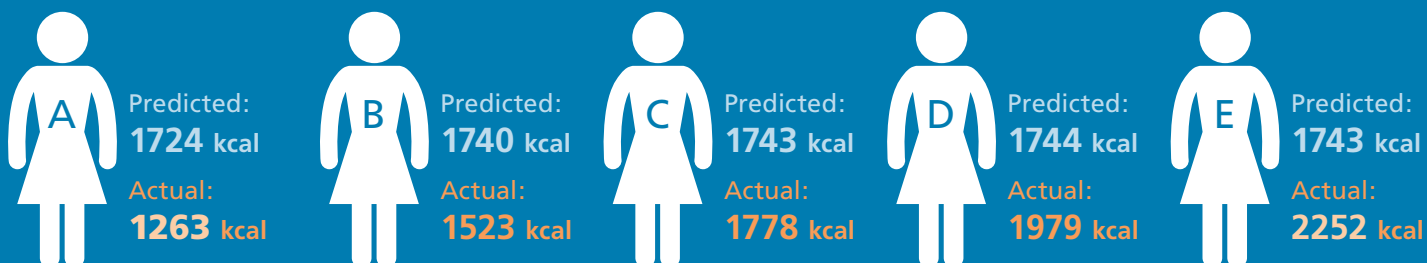
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We are all different

Metabolism can be very different among individuals of the same height and weight.

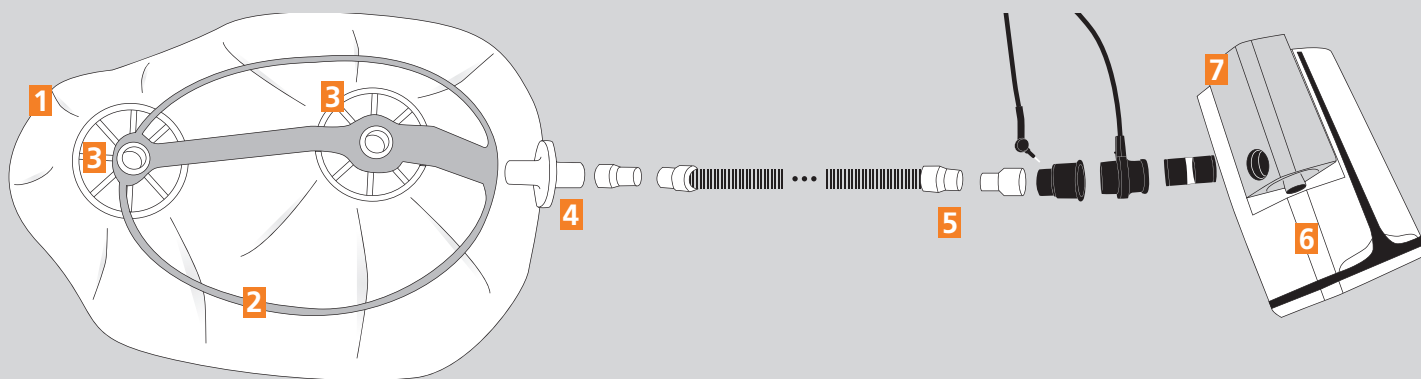
The American Dietetic Association recommends healthcare providers measure metabolism instead of using estimates to eliminate unnecessary risks for both – the healthcare provider and the patient.¹

Subjects of same height and weight²



Indirect calorimetry is considered the gold standard technology for Resting Energy Expenditure measurement in clinical nutrition.³

Sophisticated Technology meets Hygiene



Older Generations		Vyntus® CPX Solution
Reusable hardcover canopy with foil – difficult to disinfect and appearance degrades over time	➡	1 Low cost, single patient use foil – improves hygiene
Application without Filter	➡	2 Stainless steel holder outside the foil – not contaminated 3 Removable silicone plug-in rings – the only parts that have to be disinfected after each measurement
Contaminated adapter, tubes and volume sensors disinfected between each patient	➡	4 MicroGard™ bacterial/viral Filter to protect downstream parts 5 Reduces need to disinfect parts downstream of MicroGard™ filter to 1 x per month
Contaminated blower – not possible to clean and disinfect	➡	6 Blower never in contact with patient's exhaled air 7 Easy removable Jet-Valve for complete and optimal disinfection

Vyntus® CPX featured by SentrySuite® software

Features

- Resting Energy Expenditure (REE) and substrate partitioning. The main parameters are: EE (Resting Energy Expenditure), FAT, CHO, PRO, $V'O_2$, $V'CO_2$, RER, npRER, $FECO_2$, $V'O_2/kg$, $V'E$ and many more.



- Reference values for EE resting from Harris / Benedict (1919), Schofield (1985), Mifflin (1990).
- Entry and correction of UN (Urinal Nitrogen).
- $FECO_2$ control with real-time notification for optimal flow selection.
- Automatic or manual dilution flow regulation mode for easy handling.
- Integrated gas analyzer zeroing during the measurement for optimal stability.

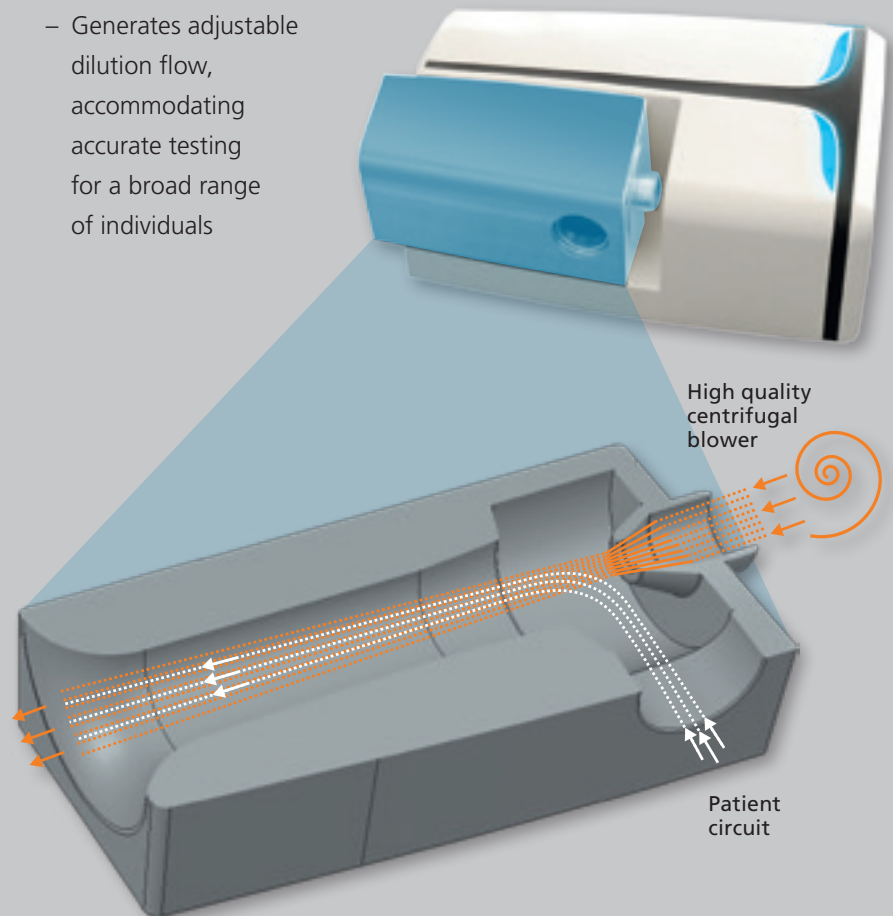


- Four selectable steady-state intervals plus average of all four (e.g., REE while patient sleeping vs REE while patient awake).
- Supports device verification by ethanol burn test.
- Excel® Export for research post-processing.



The Canopy Module – Accurate patented hygiene flow generation

- Generates adjustable dilution flow, accommodating accurate testing for a broad range of individuals



- Patented technology using Venturi-effect improves hygiene
- Removable Jet-Valve assembly for quick cleaning and disinfection
- Durable and maintenance-free centrifugal blower – not in contact with patient's exhaled air


The "CareFusion Experience"

CareFusion's Respiratory Diagnostics (RDx) division is active in over 120 countries and headquartered in Germany and USA. It is an organisation with over 60 years' experience in the field of pulmonary function testing founded on the reputed brands: Godart, Mijnhardt, JAEGER®, Beckman, Gould, Micro Medical, SensorMedics® and VIASYS®.

With over 500 employees at CareFusion RDx, we strive to continue the rich tradition of supplying reliable, professional and accessible cardiopulmonary diagnostic devices and services. Today we expand our offer to you with new diagnostic concepts and future oriented workflow and H-IT solutions. In conjunction with our global support organisation we at CareFusion RDx are at your service in almost any country in the world.

References

- 1 ADA, Adult Weight Management Evidence-Based Nutrition Practice Guideline. 2007.
- 2 Foster, G.D., et al., Resting energy expenditure, body composition, and excess weight in the obese. *Metabolism*, 1988. 37(5): 467-472.
- 3 Haugen HA, et al., Indirect calorimetry: a practical guide for clinicians. *Nutr Clin Pract*. 2007 Aug, 22(4): 377-388.

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