

ROOM CALORIMETER BASIC

BRINGING ROOM CALORIMETER RESEARCH WITHIN REACH



MAASTRICHT INSTRUMENTS

World's leading company in providing unique indirect calorimetry equipment for experts in the field of human and animal energy metabolism research.

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Room calorimeters are an invaluable, powerful tool in metabolic research studies. However, Room Calorimeters are also expensive and take up valuable research space. These downsides prevent many institutes in performing their desired research. To change this, MI has combined its 35 years of room calorimeter experience with its state of the art metabolic cart, the Omnicart system, to develop the world's first basic room calorimeter: a complete system, installed in a matter of hours and immediately ready to perform research.

The system can be used for a wide variety of research, ranging from nutritional studies to sports recovery and can even accommodate subjects in hospital beds who cannot be measured using traditional techniques with masks or hoods.

The system is fully flexible in its use: adding windows, blinds, accessories are all possible, even after purchase to allow easy adaptation to new studies. When not in use, the room can easily be taken apart and stored, while the Omnicart system can still be used as a high end, top of the line hood or sports metabolic cart.



35 years of experience



While doing research and looking into small changes in human metabolism it has to be absolutely clear those variations are introduced by the subjects, not by equipment variations. Regular equipment validation has to be part of every study design and Maastricht Instruments strongly believes that validation of equipment doesn't stop at the time of installation.

Users of the system need to have an easy method to check system accuracy regularly. For all its metabolic systems, Maastricht Instruments guarantees accuracy on VO₂ and VCO₂ levels and provides equipment and methods to allow users to perform their own methanol burns, validating accuracy and increasing confidence in research results.



System Accuracy Guaranteed

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Maastricht Instruments BV (MI) is a private limited company originating from the engineering department of the Faculty of Health, Medicine & Life Sciences of the Maastricht University Medical Center+ in the Netherlands. The company is founded in 1998 and has grown into a specialized high-tech company providing high demanding customers, worldwide with innovative technical solutions in the field of life sciences and medical.

Maastricht Instruments has a close working relationship with the Department of Human Biology of Maastricht University Medical Center+. This department has over 35 years of experience in the field of indirect calorimetry and is one of the world's leading research groups related to human energy metabolism research. Through this relationship, Maastricht Instruments has gained advanced knowledge in development of high-end indirect calorimetry equipment.

The objective of Maastricht Instruments is to provide customers active in the field of human energy metabolism, nutrition- and sports sciences with high-end indirect calorimetry equipment ensuring reliable and validated results.



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Maastricht Instruments BV
Universiteitssingel 50
6229 ER Maastricht
The Netherlands
+31 (0)43-3881371
email@maastrichtinstruments.com
www.roomcalorimeters.com

