



For Immediate Release

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iWorx Introduces Versatile Metabolic Cart for Respiratory, Cardiovascular and Neuromuscular Analyses

Breath-by-Breath Measurement of Oxygen Consumption and Carbon Dioxide Production

Dover, NH, June 20, 2008 – [iWorx](#), a developer of advanced physiology teaching and life science research tools, has introduced the MC-214 Metabolic Cart for measuring breath-by-breath oxygen consumption and carbon dioxide production in exercising subjects. With built-in iWorx LabScribe2 analysis software, the system is capable of measuring and calculating rates of oxygen consumption (VO_2), rates of carbon dioxide production (VCO_2), respiratory exchange ratios (RER), basal metabolic rates (BMR), aerobic capacities (VO_2max), and others. The versatile design and broad range of analysis functions also included, make the MC-214 suitable for research applications in cardiovascular, neuromuscular, and respiratory physiology as well. The cart includes the iWorx GA-200 Gas Analyzer, iWorx 214 Data Acquisition System with LabScribe2 Software, and spirometry equipment with headgear and mask. Optional valving and mixing chamber are available.

The GA-200 Gas Analyzer uses laser diode absorption technology to measure 5 to 100% oxygen in inspired air and infrared detection to measure carbon dioxide concentration over a 0 – 10% range in expired air. A rapid response time of 10 milliseconds (100 times per second) enables measurement of breath-by-breath samples from an exercising subject. LabScribe2 software calculates the volumes of oxygen consumed per minute (VO_2) and carbon dioxide produced per minute (VCO_2). The Respiratory Exchange Ratio (VCO_2/VO_2) can be used to determine the proportions of energy being produced by carbohydrates and fats.

The GA-200 incorporates an LED display, a keypad for programming the unit's operation and calibration, and analog outputs for connection to the iWorx 214 Data Acquisition System. The compact analyzer measures 190 mm wide x 76 mm high x 280 mm deep and is factory calibrated and ready to run without further set-up requirements. The Metabolic Cart is ideal for Sports Medicine, Kinesiology and Exercise Science teaching and research.

More information can be found at www.iworx.com. The complete MC-214 Metabolic Cart is priced at \$8,500. The iWorx GA-200 Gas Analyzer has an introductory price \$5,500 and can be purchased separately online or by contacting iWorx/CB Sciences, Inc., One Washington Street, Suite 404, Dover, NH 03820 (T) (800) 234-1757, (F) (603) 742-2455, billm@iworx.com.

About iWorx

iWorx provides integrated physiology teaching kits and a full range of advanced systems and components for physiology research. Teaching kits include all of the hardware, software and courseware required for college-level human, animal, psychophysiology, and neurobiology labs. For life science research, iWorx offers a full selection of data acquisition systems, signal conditioners, stimulators, transducers, electrodes, cables, and general-purpose laboratory equipment and accessories.