MetaCheck

Metabolic Testing

The MetaCheck is an affordable system that provides accurate, professional-quality metabolic rate measurements. In the past, these measurements have only been available by using cumbersome, expensive equipment, and was generally only available at hospitals. Today, the MetaCheck provides the same critical data with just a simple, 10 minute breath test at a fraction of the cost. Plus, the MetaCheck is simple to use and maintain, using disposable testing supplies and requiring no additional computer or testing equipment to operate.

Features

Professional quality measurements in a compact "desk-top" system.

Provides a full page printout of results and interpretation at the end of each test.

Printed report compares actual metabolic rate to predicted normal values based on the user's age, sex, height, and weight.

Calculates Body composition (Fat Free Mass & Fat Mass)

Provides suggested caloric intake based on each individuals metabolic rate. Diet plans taught through easy to understand "Target Zones".

No special training or equipment is needed for operation.

Self calibrating to ensure accuracy.

Operation

1. MetaCheck plugs into any electrical outlet

2. Client should be seated or reclining, and is encouraged to rest during the test.

3. Client breathes through a disposable mouthpiece that is connected to the MetaCheck device. A nose clip is used to assure that all air passes through the mouthpiece.

4. The client continues to breathe through the mouthpiece until the MetaCheck indicates that resting metabolic rate (RMR) has been calculated. This usually takes about 10 minutes.

5. The MetaCheck displays RMR on the screen and prints out a report detailing calories burned at rest, an indication if their metabolic rate is fast, normal, or slow, and guidelines for weight loss.

KORR

www.KORR.com / 1-800-895-4048

MetaCheck
Product Specifications

Power Requirements
External 12 Volt power supply from device, less than 1.5 Amps.

Barometric Pressure Sensor
Accuracy -- ±2 mmHg
Resolution -- 1 mmHg
Range -- 500 to 800 mmHg

Temperature Sensor
Accuracy -- ±1 °C
Resolution -- 0.1°C
Range -- 10 to 40 °C

Relative Humidity Sensor
Accuracy -- ±10% RH
Resolution -- 1% RH
Range -- 10 to 95% RH

Oxygen Sensor
Type -- Galvanic Fuel Cell
Accuracy -- ±0.2% O_2
Resolution -- 0.01% O_2
Range -- 0 to 30% O_2
Nominal Sensor Life -- 24 months

Air Flow Sensor
Type -- Fixed-orifice Differential Pressure Pneumotach
Accuracy -- ±2% of reading
Resolution -- 0.01 LPM
Range -- -40 to 150 LPM (-600 to 2500 ml/sec)
Breath Rate -- 5 to 40 breaths/minute
Tidal Volume -- 200 to 3000 ml

Oxygen Consumption Calculation
Range -- < 70 to > 720 ml/min O_2
Resolution -- 1mi/min O_2

Metabolic Rate Calculation
Calculation Method -- Weir equation with assumed RQ = 0.83
Range -- 500 to > 5,000 kcal/day
Resolution -- 7 kcal/day
Measurement Time -- 10 Minutes typical

Physical Dimensions
Size -- 20 X 30 X 10
Weight -- 5.75 Lbs (2.6kg)

Operating Environment
Temperature Range -- 20 to 60 °C
Elevation Range -- -30 to 3040 meters, (-100 to 10,000 ft.)
Barometric Pressure Range -- 375 to 780 mmHg
Relative Humidity Range -- 10 to 95% RH Non-condensing

Storage Conditions
Temperature Range -- -20 to 60 °C
Barometric Pressure Range -- 140 to 1000 mmHg
Relative Humidity Range -- 0 to 100% RH Non-condensing

PRODUCT CATALOG

PART#	Product Description
9FG0023	**MetaCheck™ Basic Package** Includes: MetaCheck Metabolic Analyzer 10 "Metabreather" Disposable Mouthpieces Power Supply, Non-Medical Grade w/cord 100 MetaCheck PrePrinted forms User Manual MetaCheck Staff Training Manual MetaCheck Executive Roll Out Guide Sample Packet: Target Tracker Supplies
9FG0123	**MetaCheck™ Quickstart Kit** Includes: MetaCheck Basic Package 9FG0023 (See above) 40 (Additional) "Metabreather" Mouthpieces (50 total) Printer, color Hewlett Packard 6" Printer Cable Promotional Kit: Metabolic Testing Services
9FG0186	Box of 20 MetaBreathers (single use)
9FG0187	Box of 100 MetaBreathers (single use)