The world’s gold standard for fast, accurate and safe body composition assessment

“Numbers you can trust”
The BOD POD is the world’s only Air Displacement Plethysmography (ADP) system using whole body densitometric principles to determine body composition (Fat and Fat-Free Mass) in adults and children. In comparison to other body composition assessment methods, the BOD POD’s air displacement plethysmography has eliminated the invasiveness of Dual Energy X-Ray Absorptiometry (DXA) as well as the difficulties associated with underwater submersion in hydrostatic weighing. A full test requires only about 5 minutes, and provides highly accurate, safe, comfortable, and fast test results. This is why the BOD POD is considered the practical Gold Standard for body composition assessment.

The BOD POD is ideal for assessing the body composition of special populations such as children (young children from 2 to 6 years with Pediatric Option™), the elderly, the disabled and subjects weighing more than 200 kg. It is also completely non-invasive, making it especially suitable for frequent, longitudinal tracking of body composition and metabolic changes over time.

Applications
The BOD POD is used in a wide variety of segments:

- Academic and Medical Research
- Clinical Examination
- Elite Athletic Training
- Military and Public Safety
- Nutrition Counseling
- Bariatric Clinics
- University Fitness

Proven Accuracy
Each BOD POD is a complete turnkey system based on the same Gold Standard operating principle as hydrostatic (underwater) weighing.

The BOD POD uses the principles of whole-body densitometry to determine body composition. This technique relies on a mass measurement from a highly accurate scale (provided) and a volume measurement from the BOD POD chamber.

Once body density (Density = Mass/Volume) is determined, the BOD POD measures or predicts Thoracic Gas Volume (TGV) and then uses known (or user-customized) densitometric techniques to determine body composition.

Accomodates a wide range of subjects up to a maximum weight of 250kg

Simple and easy for both subject and operator

metric equations to calculate percent Fat and Fat-Free Mass.

The accuracy of the BOD POD has been shown to be very high against reference techniques in a number of research publications. The BOD POD also provides flexibility in testing special populations - something other techniques are unable to offer.

**Test Sequence**

The BOD POD is extremely simple to use and does not require a license to operate. A full test requires only about 5 minutes:

- Basic subject information is entered into the specially configured computer system
- The BOD POD is calibrated
- The subject’s mass is measured using the integrated digital scale (accuracy is assured by scale calibrations at regular intervals utilizing provided calibration weights)
- The subject’s body volume is measured while sitting inside the BOD POD (2 minutes)
- Thoracic Gas Volume (TGV) is measured or predicted
- Test results are displayed and printed

**Software Features**

- Longitudinal reports of body composition changes
- Customizable body composition ranges
- Customizable density models based on ethnicity, gender and body type (athletic, obese, etc.)
- Data export capability
- Automatic estimates of Resting Metabolic Rate (RMR) and Total Energy Expenditure (TEE)

**Pediatric Option™ Accessory**

The BOD POD with the Pediatric Option™ accessory allows the assessment of body composition of young children. It includes a customized seat insert to create a safe and comfortable testing environment for subjects between 2 and 6 years of age. A modified Windows®-based software program and calibration standard are part of the testing procedure as well. This option is validated for subjects as young as 2 years of age and as small as 12 kg².

The Pediatric Option™ accessory allows for easy body composition assessment of young children.

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Validation articles


More scientific studies on

www.cosmed.com/bibliography

Technical Specifications

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<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>REF</th>
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<tbody>
<tr>
<td>BOD POD Gold Standard</td>
<td>Gold Standard body composition tracking system</td>
<td>A-661-230-023</td>
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<tr>
<td>Standard packaging</td>
<td>BOD POD unit; Calibration cylinder; Electronic scale; Computer; Monitor; Power supply; Serial cable; Software CD; 10 Kg. calibration weights (2 pcs.); Nose clip; Window cleaner; Window cleaning cloths (5 pcs.); Quick reference guide; Tube and Filter Kits (1 Box); Body composition posters (1 tube); Transformer assembly; Printer; Printer cable (3 meters); Computer cart; BOD POD Operator's manual.</td>
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