

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





BOD POD is a highly reliable and valid method for determining %FAT in adult humans. This new method is quick, relatively simple to operate and may be able to accommodate special populations(1)

- Gold Standard accuracy using wholebody densitometry
- Excellent test-to-test repeatability
- Fat and Fat-Free Measurements
- Fast test time (2 minutes inside BOD POD and about 5 minutes total test time)
- Safe, non-invasive, and ideally suited for frequent testing
- Flexibility in testing special populations, including young children with Pediatric Option™



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.

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.

composition assessment.

The BOP POD is ideal for assessing the body composition of special populations such as children (young children from 2 to 6 years with Pediatric Option¹⁷⁰), 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.

Bariatric Clinics University Fitness

Applications

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

Academic and Medical Research

Clinical Examination Elite Athletic Training Military and Public Safety Nutrition Counseling

weigning.
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) densito-



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



(1) McCrory MA, et al. "Evaluation of a new air displacement plethysmograph for measuring human body composition." Med Sci Sports Exerc. 1995 Dec;27(12):1686-91.

metric equations to calculate percent Fat and

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
- 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)

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Maintenance

The BOD POD is designed for durability over time. Should the need arise, each BOD POD has an internal diagnostic test function to analyze system performance and provide feedback to service personnel. Extended service agreements are available to insure optimal performance for long term use.

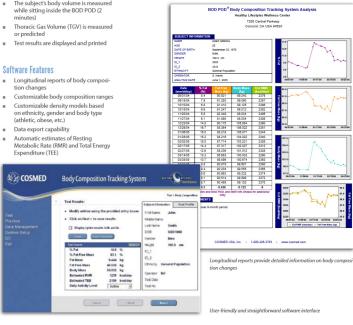
Pediatric Option™ Accessory

Pediatric Uption** 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

² Air-Displacement Plethysmography Pediatric Option in 2–6 Years Old Using the Four-Compartment Model as a Criterion Method [DA Fields, et al. Obesity, 2012 Aug;20(8):1732-7]



Validation articles

- Validation articles

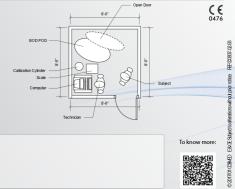
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 Wingfield H., et al. Rody composition assessment in overwight norm-validation of a Haplacement plethysmography. Clin Physiol Fund I maging. 2014 Aug;34(1):24.

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Technical Specifications

BODFODGild Standard	Gold Standard body composition tracking system	A661-230-023
Sandardpadkaging	EDPDurit; Gilbration o, linder; Bestroric scale Compute; Said actle Stifwere (D. 10 kg. calibration weights (2 pps.); N Window dearing doths (5 pps.); Quidwelferaneguide; Tuber composition posters (1 tube); Tansformer assembly, Pirter; Pl Computer cart; BDPD Operator's manual.	ceedip;Windowdeener; nd RiterKits(1Box);Body
Body Composition	Bodyweight, Bodyvdume, Bodydensty, Bodyfat (massand%), Bodyfat-Free(mass and%), ThoracicGasVdume(TGV), RestingMetabolicRate(estimated), Total Energy Expenditure(estimated)	
Accuracy	Measurementshavebeen found to be equivalent (no statistically signil bant of before) to those obtained using 4-Compartment Model reference techniques	
MassMassurement (with hi	ghprecision digital scale)	
Dmensions&Weight(Scale)	6.4x34x2cm/ 11.3Kg	
Weightrange	upto250Kg	
Accuracy	0.05%	
Calibration	Certi Led 20 Kgweights	
Vdume Measurement		
Dmensions&Weight (POD)	165x84x132am/ 141 Kg	
Cramber volume	460L	
Accuracy	±100 ml cf cylindervalume	
Calibration	Certilled 50 Loylinder	
Environmental Conditions		
Temperature	21-27*O(operating); 5-38*O(storage)	
Hmidity	20-70%(nan-candensing)	
Barametric Pressure	75-106KPa(562-795mmHg)	
Power requirements	100-240V± 10%50/60Hz	
Software	BDRDSite	
Aailabelanguages	English	
Required POCon Lighration (POInduded)	WindowsXPRo(32bit)orWindows7(32bit);256MBRAM(X (Windows7)	PPro), 2GBRAM
Accessaries& Options	Description	
Redatricoption	for subjects between 2 and 6 years of age (as small as 12 kg)	A661-923-010
Safety&QualitySlandards		





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