

Vyntus BODY

Vyntus™ BODY

Body Plethysmography -
Designed to be different

 J A E G E R™

Vyntus™ BODY

key features



Breathing Circuit Highlights

Pre-calibrated Ultrasonic flow sensor

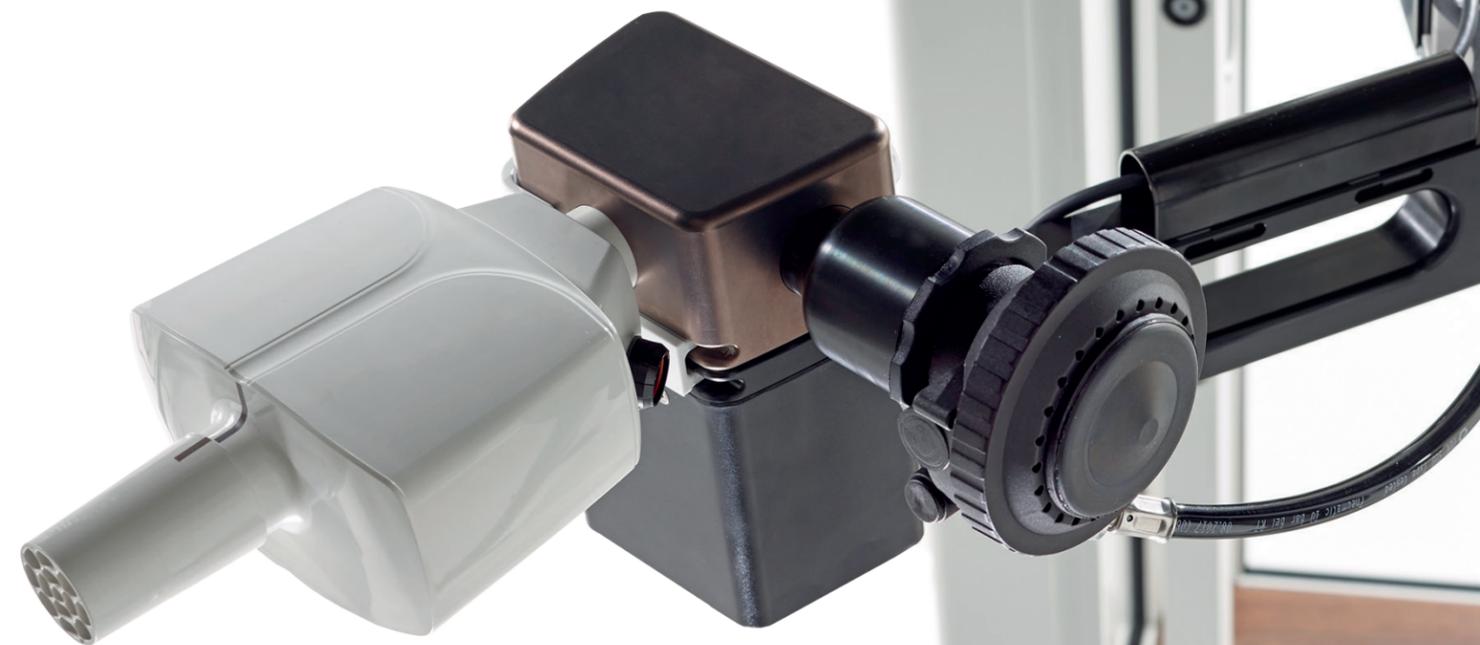
- Reduces daily workload- only 3-stroke verification required.
- Close the door, begin tidal breathing right away.

Magnetic rotary flow-path valve & block

- Instant, quiet response without balloon valves.

Compact design

- See patients clearly- ensure proper test performance.



Safety & Accessibility

- Low 2.8" Entry Step.
- Grab bar for stability.
- Spacious 1,110 L Cabin.
- Bench Rated to 551 lbs.



Design & Construction

- Simple magnetic door closure- no gases required.
- Non-retracting, fixed floor.
- Durable, easy-to-clean materials.



Smart Positioning

- Flexible Sensor Arm- 24.8" outside for true wheelchair friendly testing.
- Adaptable setup- cart optional.



Testing Precision

- Digital Pressure Compensation (DPC) - Maintains accuracy despite room pressure changes.
- 3-Frequency Calibration- accurate testing at varied breathing rates.

Flexibility that Makes Vyntus™ BODY Different

The flexible arm of the Vyntus™ BODY

- Can be extended outside of the cabin up to an impressive reach of 24.8 inches.
- Patients in a wheelchair can be measured easily and comfortably outside the cabin.
- Is adjustable in height and position and perfectly adapts to your patients' needs.



Efficient & Reliable

Low-Maintenance Design

- **Reprocessing cycle** for downstream parts can be **reduced to twice a year** using the MicroGard filter¹.

Optimal Performance

- **Balanced filter** efficiency and flow resistance for smooth operation-compliant to **ATS criteria**².

Technical data

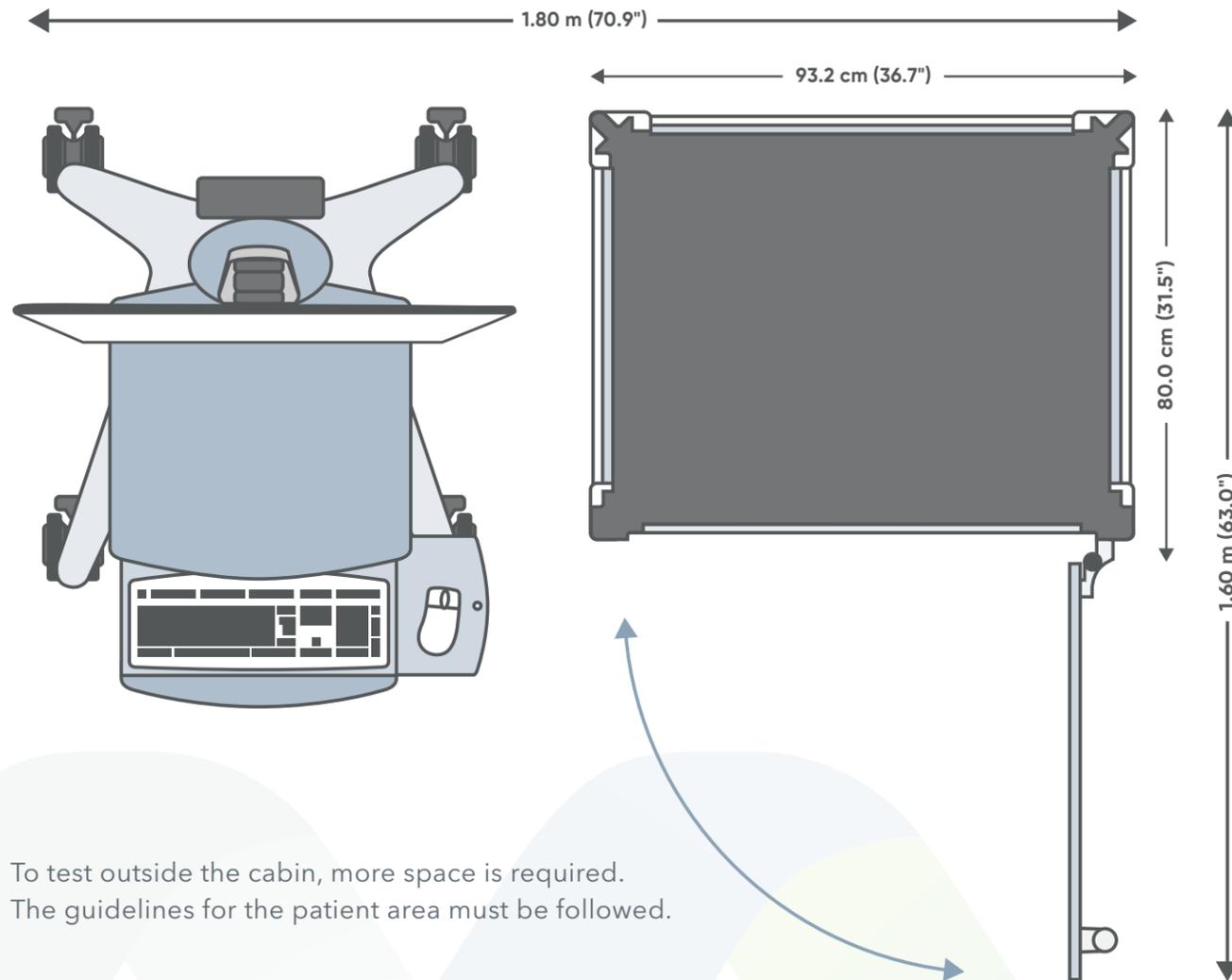
Box	
Material	Aluminium/glass construction
Principle	Volume-constant
Volume	1110 L
Height step-in	70 mm (2.8")
Weight	175 kg (385 lbs)
(W x outside)	932 × 800 × 1850 mm (incl. door handle) (36.7" x 31.5" x 72.8")
(W x inside)	882 × 705 × 1739 mm (34.7" x 27.8" x 68.5")
Mains voltage	100 to 240 V, AC 50 to 60 Hz
Electrical safety	Protection class I
Flow measurement	
Type	Ultrasound
Sample rate	1000 Hz, achieved by 2000 ultrasound transit time measurements (double shot technology)
Range	0 to 18 L/s bidirectional
Accuracy	Exhalation 0 to 14 L/s: 1.5% or 0.05 L/s (whichever is greater) Inhalation 0 to 14 L/s: 2.0% or 0.05 L/s (whichever is greater)
Total resistance (MicroGard® II filter + USS Module + FPV block)	<0.150 kPa*s/L at 14 L/s <1.53 cmH2O*s/L
Dead space USS Module	66 mL
Volume integration	
Principle	Software volume integration of flow signal
Range	30 L (software limited)
Accuracy	Exhalation and inhalation 0.5 to 14 L/s: 2.5% or 0.075 L (75 mL)
Precision	1% or 0.05 L (whichever is greater)
Bench	
Maximal load bench	250 kg (551 lbs)
Sitting height	47.6 cm (18.7")
Sitting area	50.6 cm W x 33.0 cm D (19.9" x 13.0")
Material bench	POM (Polyoxymethylene)
Flexible 3D Arm	
Max. length outside the cabin	63 cm (24.8")
Adjustable height inside the cabin	98.3 cm to 141.5 cm (38.7" to 55.7")
Multigas analyzer (CO / CH4) – Diffusion measurement	
Type	Infrared
Range	0 to 0.33 vol %
Accuracy	± 0.003 vol % or ± 2 % relative (whichever is greater)
Resolution	0.0005 vol %

Ambient measurement	Measurement range	Accuracy
Temperature sensor	- 10 to 50 °C (14 to 122 °F)	± 0.5 °C at 20 °C (68 °F) ± 1 °C at 10 to 34 °C (50 to 93.2 °F)
Humidity sensor	0 to 100 % relative humidity	4 % relative humidity at 20 - 80 % relative humidity
Air pressure sensor	500 to 1100 hPa (375 to 825 mmHg)	± 2.5 hPa (1.88 mmHg) at 700 to 1060 hPa (525 to 795 mmHg)
Dimensions/weight of standard cart		
Dimensions total	61 W x 62 cm D x 172 - 197 cm (depending on monitor assembly) (24" x 24.4" x 67.7 - 77.6")	
Weight total	(130 lbs; 59kg) inclusive PC, printer and 24" LCD monitor	
Shelves	Number	2
	Load capacity	20 kg (44 lbs) distributed load
Keyboard drawer with mousepad (left / right)	Keyboard platform area	40 cm W x 20 cm D (15.7" x 7.9")
Mechanical height adjustment for keyboard/mouse and monitor	Range	30 cm (11.81")
Monitor mount	Load capacity	24" or 32"
Mains voltage	115 V AC/230 V AC, 50/60 Hz	
Power input	690 VA	
Electrical safety	Protection class I	
Ambient conditions		
Temperature	+ 10 °C to + 34 °C (+ 50 °F to 93.2 °F)	
Relative humidity	20 to 80 % RH, non-condensing	
Ambient pressure	700 to 1060 hPa (525 to 795 mmHg)	
Altitude	≤ 3000 m (9842 ft)	
Moisture protection		
Vyntus BODY	IP 20	
CART	No IP protection	
Ultra Sound Sensor (USS Module)	IP 67	
Classification of applied parts		
Vyntus BODY	Type applied part	B
Category according to MDD 93/42/EEC (2007)		
Complete system	Active class IIa medical product	
Operating mode		
Complete system	Continuous operation	
Standards, directives		
Standards	EN 60601-1, EN 60601-1-2, EN 62304, EN 62366 -1, EN ISO 14971, EN ISO 10993-1	
Directives	93/42/EEC amended by 2007/47/EC, RoHS 2011 / 65 / EU compliant	
Market clearances	FDA 510(k) clearance	

Required Space

Vyntus® BODY with standard cart

Space requirements: 180 × 160 cm (70.9" × 63.0")



To test outside the cabin, more space is required.
The guidelines for the patient area must be followed.

For Your Consideration

Our body plethysmograph integrates seamlessly with a standalone PFT device, allowing lung volume measurement by **FRC plethysmography** and **nitrogen washout**. This combination supports full diagnostic flexibility—ensuring accurate testing for patients inside the box and those who require an alternative approach.



ATS/ERS guideline implementation

Your base for high quality results

✓ **ATS/ERS 2019 spirometry standards³**



✓ **ATS standardized PFT reports⁵**

✓ **ATS/ERS 2017 diffusion standards⁴**



REFERENCES

1. Based on the Bio Burden DIN EN ISO 11737-1: Report t 18AA0193.
2. ATS Standardization of Spirometry [ATS 2005, p. 332]
3. Graham B, Steenbruggen I, Miller M, et al. Standardization of spirometry 2019 update. An official american thoracic society and european respiratory society technical statement. Am J Respir Crit Care Med. 2019; 200:e70-e88.
4. Graham BL, Brusasco V, Burgos F, et al. 2017 ERS/ATS standards for single-breath carbon monoxide uptake in the lung. Eur Respir J 2017; 49: 1600016.
5. Culver BH, Graham BL, Coates AL, Wanger J, Berry CE, Clarke PK, et al.; ATS Committee on Proficiency Standards for Pulmonary Function Laboratories. Recommendations for a standardized pulmonary function report: an Official American Thoracic Society technical statement. Am J Respir Crit Care Med 2017;196: 1463-1472.Culver et al., 2017.

SentrySuite version 3.20 or higher



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