



GANSHORN
SCHILLER GROUP



PowerCube **Body+**

Bodyplethysmograph

The first with ultrasound technology

ROBUSTNESS AND QUALITY FIRST.

GANSHORN PowerCube Body+ represents 40 years of experience in developing and manufacturing state-of-the-art lung-function diagnostic equipment.

Already with the forerunner of the current series, in 2011 many pioneering and innovative features, such as ultrasound technology, were introduced into the market, which is why nowadays the PowerCube Body+ represents the most experience and quality. Users can configure the PowerCube Body+ hardware and LFX software to meet their specific requirements and preferences.



Long life, robust hardware



Spare part free



Full flexibility, various options



Powerful, intuitive LFX software



Lowest costs per test in industry

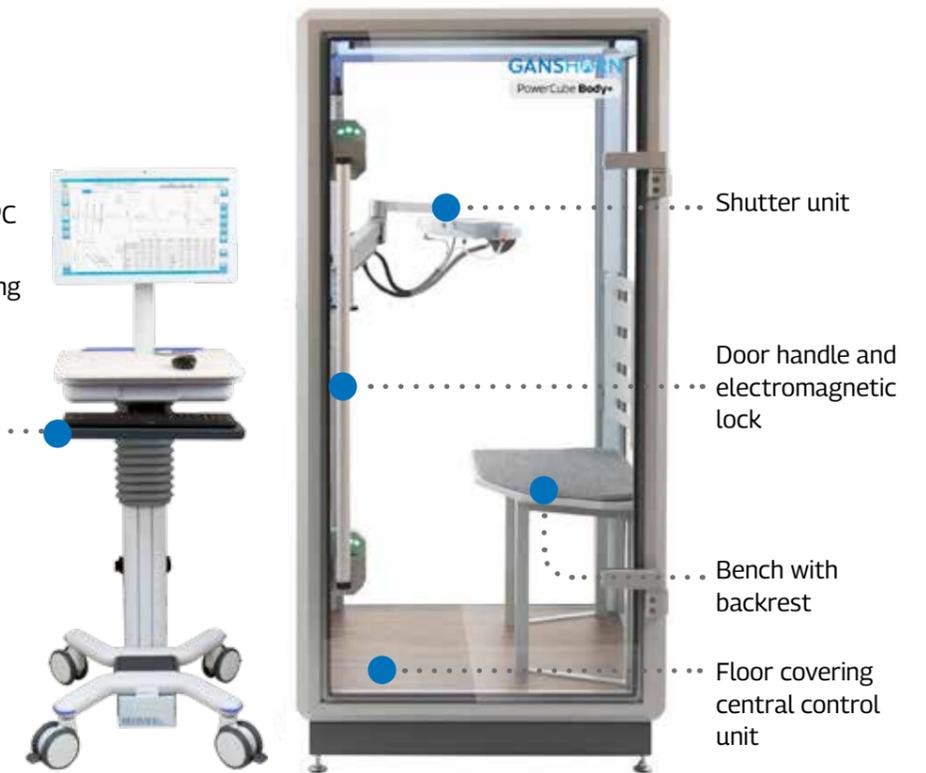
COMPLETE PACKAGE

The PowerCube Body+ station includes a medical all-in-one touchscreen PC and comes optionally with an ergonomic height adjustable trolley.

An external printer and isolating transformer are elective.

Work station

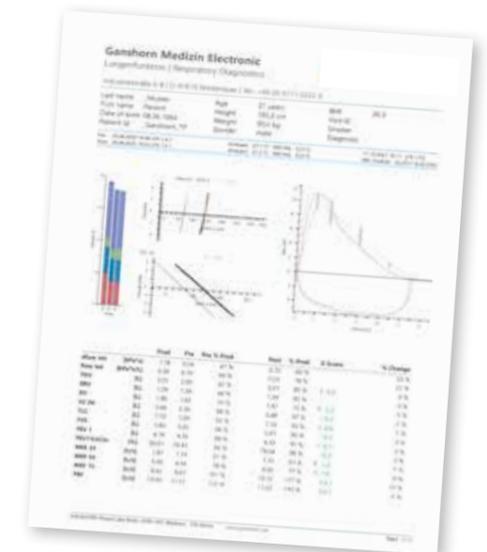
- ✓ Optional medical grade ergonomic trolley
- ✓ height adjustable
- ✓ medical All-in-One-PC with touch function
- ✓ optional with isolating transformer



Software platform

The LFX software is our user-friendly interface, developed with the physiologist in mind. The Patient Management interface provides all the tools necessary to perform every task done in the laboratory, while remaining easy to operate. Built on state-of-the-art Windows tools like .Net, C# and MySQL or MSSQL database, the LFX software is the future of modern respiratory diagnostics.

The LFX software has built-in quality control monitoring based on ATS/ERS guidelines, which are accessible during and after the measurements are performed.



Ultrasound technology

The heart of GANSHORN diagnostic systems is its ultrasound sensor.

SpiroScout, PowerCube Body+ as well as the PowerCube Diffusion+ are based on GANSHORN ultrasound technology. So every measurement comes with precise and direct digital sound pulse transit-time flow determination of lung function. Every system, every session result, always the same accuracy and precision.



FEATURES



Electromagnetic door lock

with LED locking indicator



„Safety unlock“ button

gives patients sense of control



Patient speaker and microphone

for a maximum of cooperation



3D swivel arm

Flexible, height-adjustable interface



Maximum comfort

Panorama view and LED-lights



Multiple options

Easy integration of diffusion and/or provocation



TECHNICAL DATA

Flow measurement

Method	Ultrasound transit time
Range	0 to ± 18 l/s
Accuracy	$\pm 2\%$ or 50 ml/s (for 0 to ± 16 l/s)

He analyzer

Method	Ultrasound
Range	0 to 20 Vol.% He
Accuracy	$\pm 2.5\%$ FSO

Volume measurement

Method	Digital integration
Range	Not limited
Accuracy	$\pm 2\%$

Electrical requirements

Power consumption	Max. 120 VA
Voltage	110 V/230 V
Frequency	50/60 Hz

Cabin pressure

Method	Piezo resistive pressure sensor
Range	$\pm 0,136$ kPa
Accuracy	$\pm 1\%$

Dimensions

W/o/with door handle	86 x 185 x 71/77 cm
Wheelchair cabin	130 x 185 x 95 cm
wheelchair ramp	140 x 88 cm

CO analyzer

Method	Non-dispersive infrared analyzer
Range	0 to 3000 ppm CO
Accuracy	$\pm 2.5\%$ FSO

Computer interface

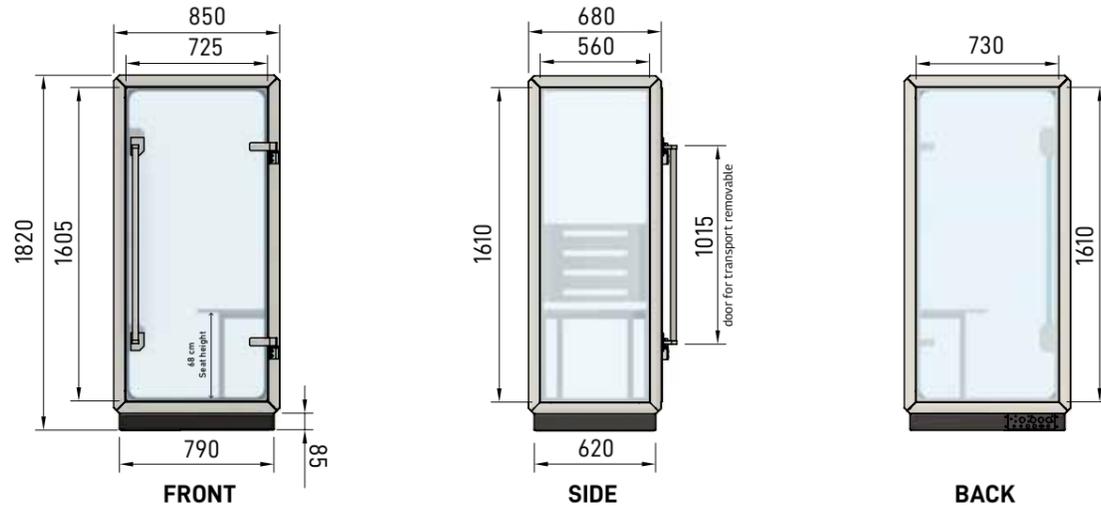
Data transfer to PC	RS-232
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Weight

Weight of cabin	approx. 150 kg
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DIMENSIONS (cm)

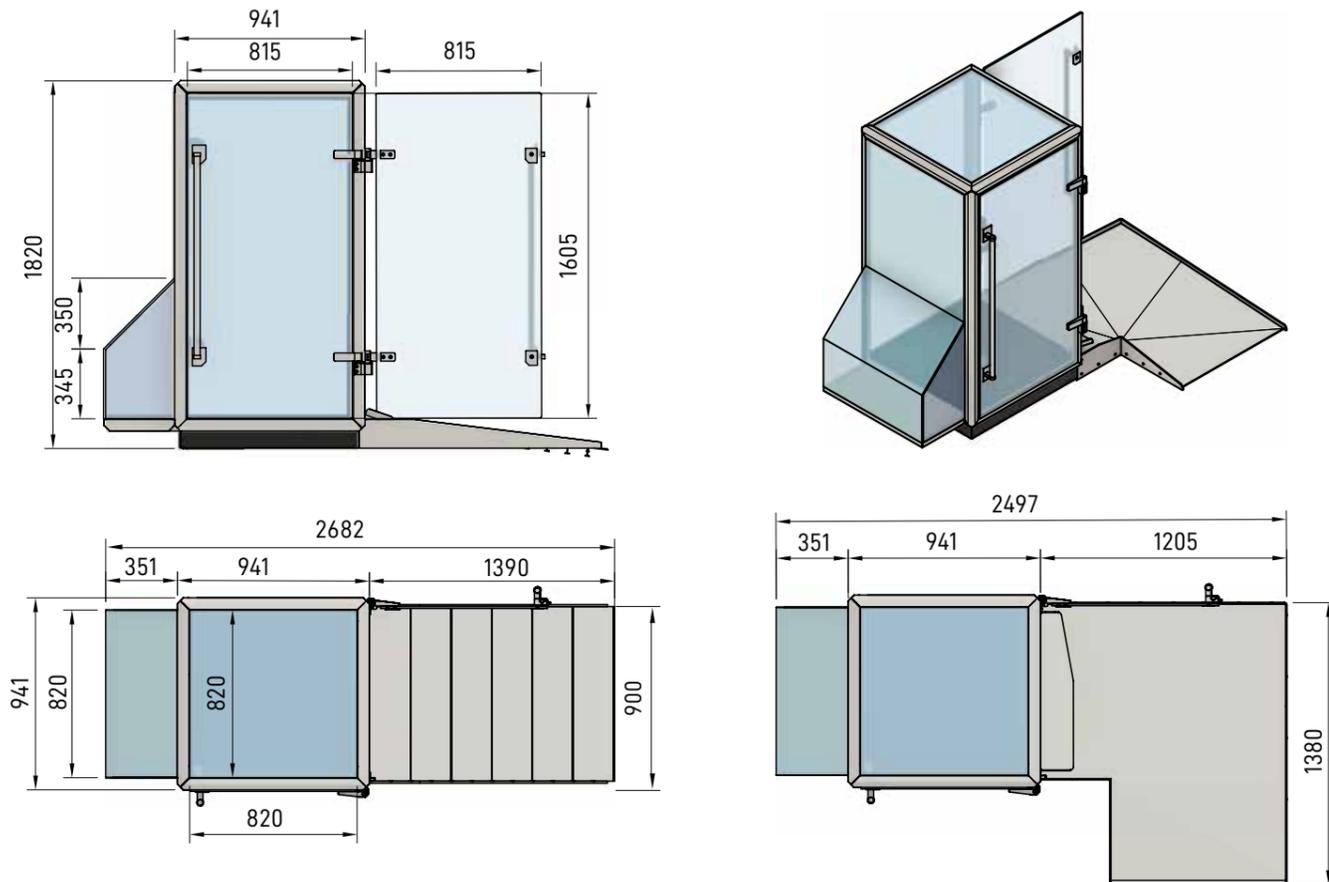
Regular cabin



Wheelchair cabin

straight ramp

curved ramp



CONFIGURATIONS

Programs	Standard	Option
Microsoft SQL / MySQL	☑	
XML report	☑	
Multuser license		☑
Worklist		☑
DICOM/GDT/HL7		☑

Features	Standard	Option
Bodyplethysmography	☑	
Slow spirometry	☑	
Forced spirometry	☑	
Single breath diffusion		☑
N2 washout		☑
Provocation		☑
Rhinomanometry		☑
MIP/MEP		☑
SNIP		☑

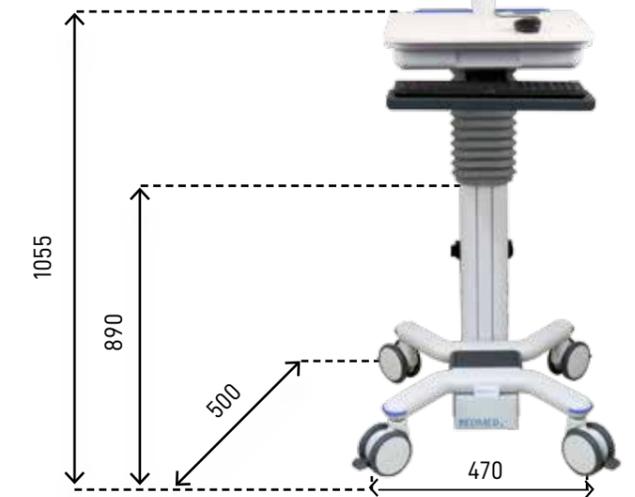
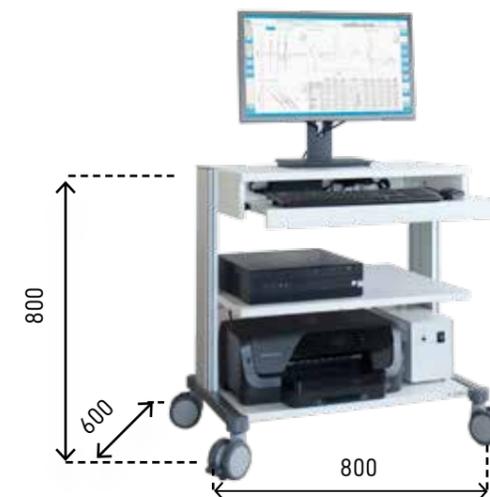
Variations / Configurations

- Trolley
- Floor color selectable
- Bench or chair
- LED ceiling lights
- Comfortable entry due to handle and elevated seating position
- Wheelchair/XL- and XS-cabin

SET-UPS

Seated workplace

Height adjustable between 885 and 1150 mm



WHY GANSHORN?

For 40 years GANSHORN has been manufacturing a complete state-of-the-art portfolio of pulmonary function testing systems for spirometry, bodyplethysmography, diffusion, bronchial provocation and cardiopulmonary stress testing. With its technological innovations, the company has been a leader in the diagnostics market since 1982. Many of these are now perceived

as gold standards. In order to meet our high quality standards, it is important to us that all key components are made in Germany. Our devices are created in modern processes in Bavaria, from the initial idea to distribution. In the meantime GANSHORN is represented worldwide, with strong markets in Europe, Asia, North and South America.



PowerCube Body+

Bodyplethysmography



SpiroScout

Spirometry



PowerCube Diffusion+

Diffusion measurement



Provo.X

Provocation testing



PowerCube Ergo

Cardiopulmonary exercise testing (CPET)



Vivatmo pro

FeNO monitoring



tremoflo®

Airwave oscillometry



EucapSys

EVH provocation



AltiTrainer

Hypoxic challenge testing, hypoxia training



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The model shown may also include optional equipment which is not within the standard scope of supply. Design, equipment, and contents are subject to change without notice, as are misprints and errors.