



**GANSHORN**  
SCHILLER GROUP



# PowerCube Body+

## Bodylethysmograph

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.**

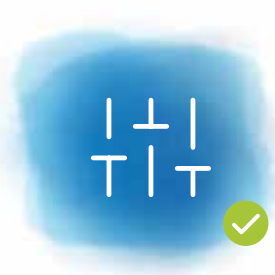
Already with the forerunner of the current series, in 2011 many pioneering and innovative features, such as ultrasound technology, were introduced into the market, which is why nowadays the PowerCube Body+ represents the most experience and quality. Users can configure the PowerCube Body+ hardware and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

## 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.

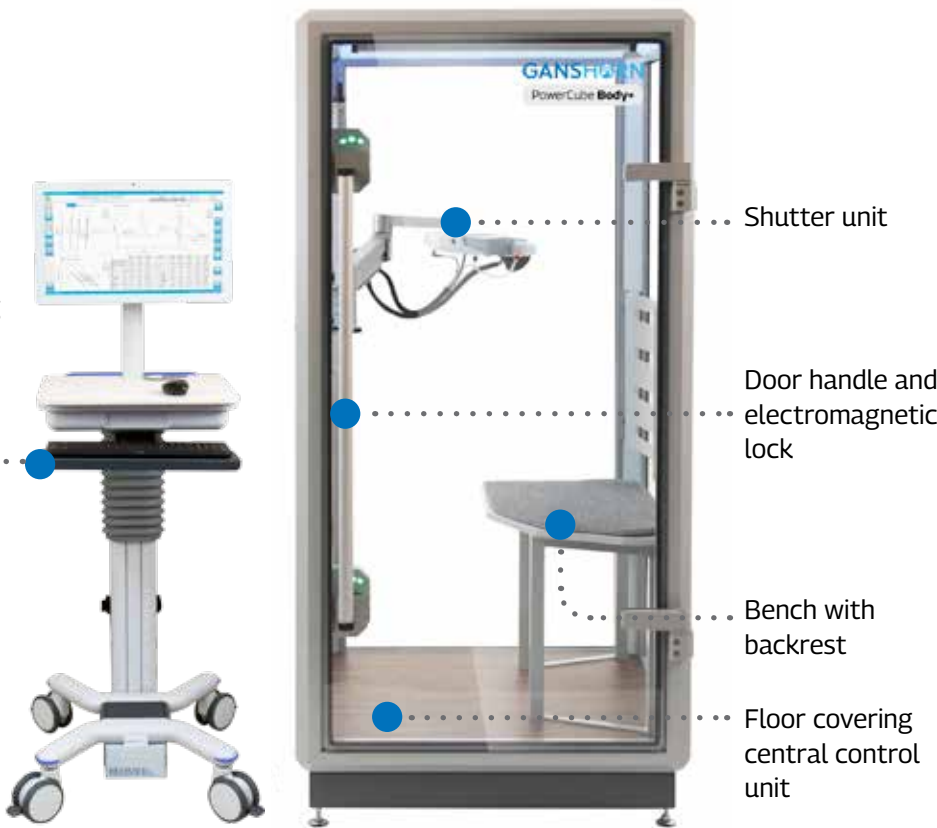
# COMPLETE PACKAGE

**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

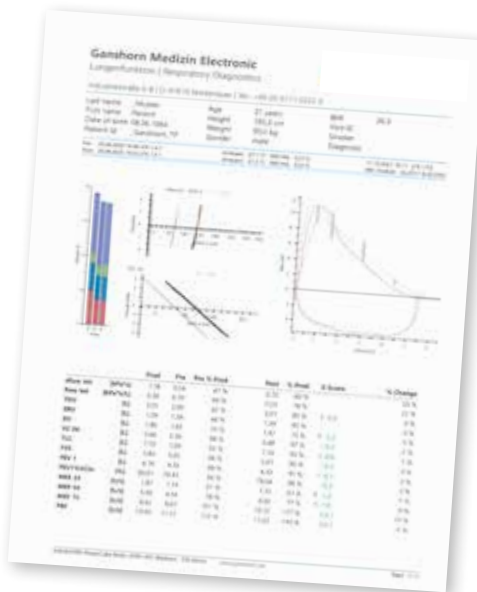
- ✓ Optional medical grade ergonomic trolley
- ✓ height adjustable
- ✓ medical All-in-One-PC with touch function
- ✓ optional with isolating transformer



## 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.



# 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

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

## He analyzer

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

## Volume measurement

<b>Method</b>	Digital integration
<b>Range</b>	Not limited
<b>Accuracy</b>	$\pm 2\%$

## Electrical requirements

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

## Cabin pressure

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

## Dimensions

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

## CO analyzer

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

## Computer interface

<b>Data transfer to PC</b>	RS-232
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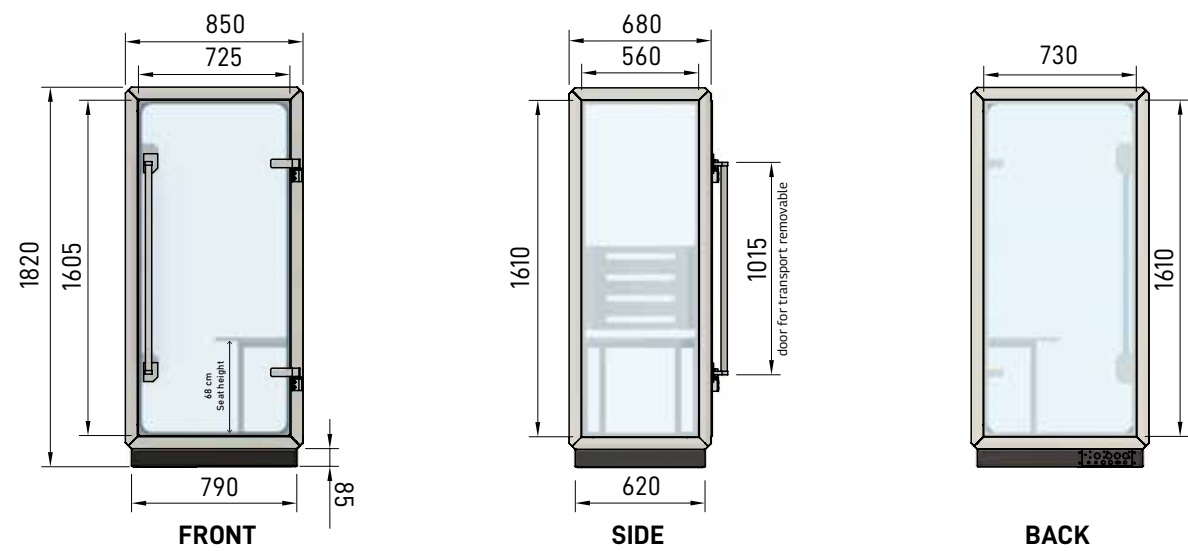
## Weight

<b>Weight of cabin</b>	approx. 150 kg
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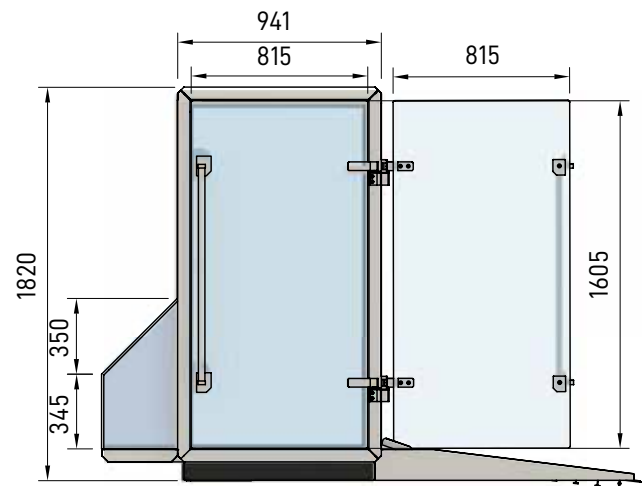
# DIMENSIONS (cm)

## Regular cabin

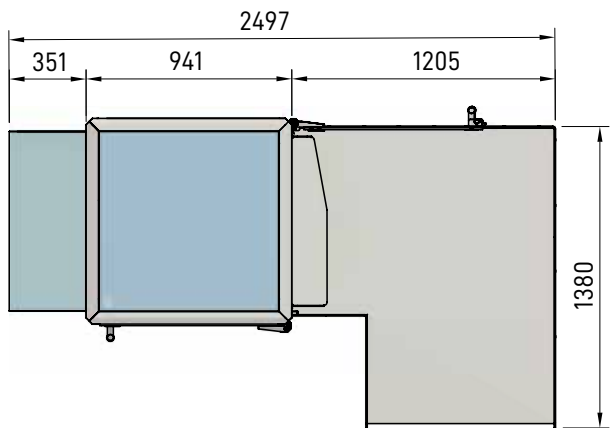
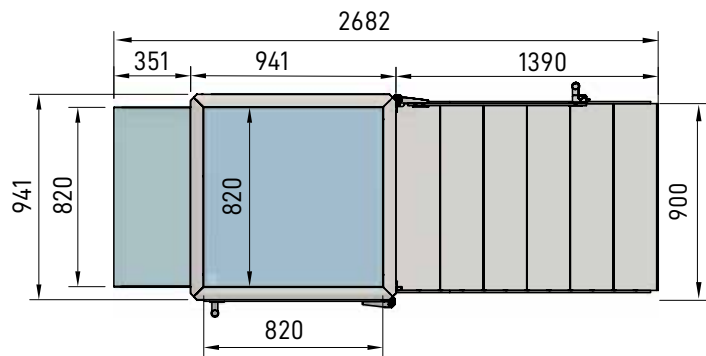
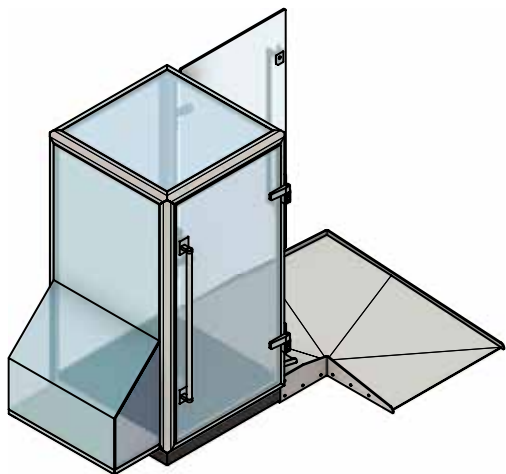


## Wheelchair cabin

straight ramp



curved ramp



# CONFIGURATIONS

Programs	Standard	Option
■ Microsoft SQL / MySQL	✓	
■ XML report	✓	
■ Multiuser license		✓
■ Worklist		✓
■ DICOM/GDT/HL7		✓
Features	Standard	Option
■ Bodyplethysmography	✓	
■ Slow spirometry	✓	
■ Forced spirometry	✓	
■ Single breath diffusion		✓
■ N2 washout		✓
■ Provocation		✓
■ Rhinomanometry		✓
■ MIP/MEP		✓
■ SNIP		✓

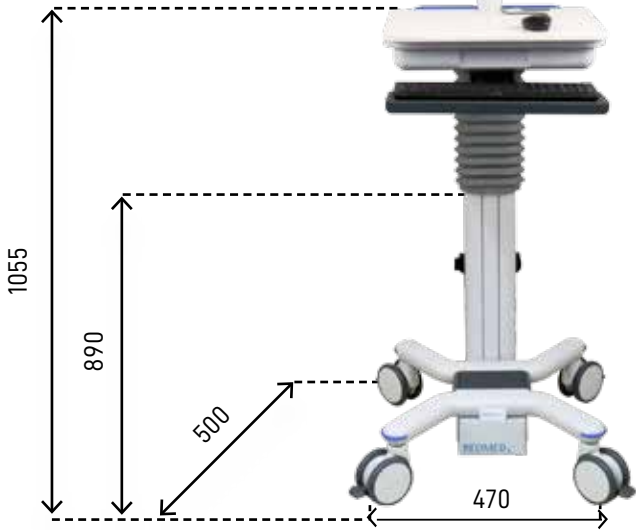
Variations / Configurations
■ Trolley
■ Floor color selectable
■ Bench or chair
■ LED ceiling lights
■ Comfortable entry due to handle and elevated seating position
■ Wheelchair/XL- and XS-cabin

# 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



## **Vivatmo pro**

FeNO monitoring



## **SpiroScout**

Spirometry



## **tremoflo®**

Airwave oscillometry



## **PowerCube Diffusion+**

Diffusion measurement



## **EucapSys**

EVH provocation



## **Provo.X**

Provocation testing



## **AltiTrainer**

Hypoxic challenge testing,  
hypoxia training



## **PowerCube Ergo**

Cardiopulmonary exercise  
testing (CPET)



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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.