

## ADVANCED LUNG GAS EXCHANGE ANALYSIS

High-speed trustworthy diagnosis of diffusion and distribution disorders

### YOUR ADVANTAGES

- ✓ **INSTANTANEOUS DIFFUSION RESULTS** - Gas analysis conducted by longlife real-time analyzers using only 1 Gas bottle (CO, He).
- ✓ **MAINTENANCE FREE** - Clean and high-precision via ULTRASOUND Technology.
- ✓ **LOGLIFE GAS ANALYZERS** - No replacements or periodic changes needed.
- ✓ **FREE OF BREATHING BAGS** - Gas intake is regulated and waste is avoided.
- ✓ **ATS/ERS GUIDELINES** - Fully conforms to Gold Standards.
- ✓ **EASY USE** - Change mouthpiece and get started.
- ✓ **ONLINE TEMPERATURE & MAXIMUM PRECISION** - The BTPS correction factor is calculated during the measurement.

### TECHNICAL DATA

#### Flow-Measurement

Principle	Ultrasound Transit Time
Range	0 to $\pm 20$ L/s
Accuracy	2%
Resistance	<0.05 kPa/(L/s) at 14 L/s

#### Volume-Measurement

Principle	Digital Integration
Range	Not limited, Autoscaling
Accuracy	2%

#### CO Analyzer

Principle	Non-dispersive Infrared Analyzer
Range	0 - 0.5%
Accuracy	$\pm 1\%$

#### He Analyzer

Principle	Ultrasound
Range	0 - 20 % He
Accuracy	$\pm 1\%$

#### Weight

Measurement Module	7.6 kg
Module with trolley	70 kg



#### Standards

Quality Management	ISO 13485
FDA	510(k) market clearance
MDD 93/42/ECC	CE Marked
Electrical safety	EN 60601-1 (Third Edition)

#### Electrical Requirements

Power Consumption	Max. 30 VA
Voltage	24 V
Frequency	50/60 Hz

**GANSHORN Medizin Electronic GmbH**

Industriestraße 6 - 8 · 97618 Niederlauer · Germany  
+49 (0) 9771 6222 0 · sales@ganshorn.de



# GANSHORN

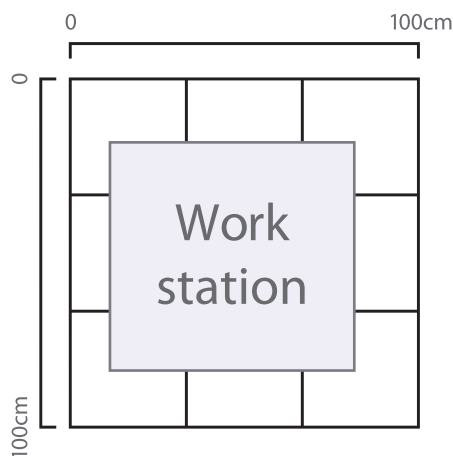
SCHILLER GROUP

# POWERCUBE DIFFUSION+

technical specifications



dimensions schematic:



## ADMINISTRATIVE PROGRAMS

- SQL Database
- Report Generator
- Multiuser license
- User Predicted Values
- GDT data transfer
- HL7 Interface
- Worklist
- DICOM

STANDARD	OPTION
✓	
✓	
	✓
✓	
	✓
	✓
	✓
	✓
	✓

## MEASUREMENT PROGRAMS & FEATURES

- Slow Spirometry
- Forced Spirometry/Flow-Volume
- Single Breath Diffusion
- FRC - Oxygen Wash-in
- Offline Input of Bloodgases
- Provocation
- Rhinomanometry
- Rocc
- MIP/MEP (Muscle Strength)
- MVV
- ROS/FOT
- Compliance
- Capnovolumetry

STANDARD	OPTION
✓	
✓	
✓	
	✓
	✓
	✓
	✓
	✓
	✓
	✓
	✓
	✓
	✓

## FEATURES

- 3D SWIVEL ARM**  
The mouth sensor can be exactly adjusted to position of the patient
- COMPACT DESIGN**  
Perform diffusion tests everywhere with Ganshorn's mobile diffusion cube - all components in one single box.
- SAVE TIME**  
A semiautomatic gas calibration allows you to calibrate the gas analyzers within seconds.



# GANSHORN

SCHILLER GROUP

You need more information? [www.ganshorn.de](http://www.ganshorn.de) ☎ 0123