PowerCube Diffusion+

Web and network solutions

LF8 is network compatible and is able to connect to a hospital information system (HIS) via GDT or HL7. We also offer a comprehensive package of data exchange solutions.

- HL7
- GDT
- DICOM
- XML
- PDF Export

Technical Specifications

PowerCube Diffusion+

PowerCube Diffusion+® (Ref. No. 064270060) Diffusion SB with software LF8 & standard accessories (flow transducer, tubes, mouthpieces, etc.)

Options:

- 013200050 PowerCube Body®
- 013200303 Compliance static and dynamic
- 013200302 Rhinomanometry
- 014330011 Aerosol dosimeter ProvoJet

The software is network compatible and can be connected by GDT interface with other computer systems. More options, accessories (e.g. trolleys), connections, personal computer requirements are available on request.

Technical data PowerCube Diffusion+®

Active medical system of Class IIa

Flow Sensor: Ultrasound FlowSensor

<table>
<thead>
<tr>
<th>Flow Range</th>
<th>Accuracy</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 20 L/s</td>
<td>+/- 1%</td>
<td>1 ml/s</td>
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</table>

Volume Range: 0 - 20 L

<table>
<thead>
<tr>
<th>Volume Range</th>
<th>Accuracy</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 5 ml</td>
<td>+/- 0.5%</td>
<td>1 ml</td>
</tr>
</tbody>
</table>

CO analyser: Non Dispersive Infrared

<table>
<thead>
<tr>
<th>Gases</th>
<th>CO</th>
<th>CH4</th>
<th>CO2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>0 - 0.33%</td>
<td>0 - 0.33%</td>
<td>0 - 10%</td>
</tr>
<tr>
<td>Accuracy</td>
<td>0.0015%</td>
<td>0.0015%</td>
<td>0.001%</td>
</tr>
<tr>
<td>Resolution</td>
<td>0.001%</td>
<td>0.001%</td>
<td>0.5%</td>
</tr>
</tbody>
</table>

Measuring range: 0 to 3,300 ppm CO

Measurement accuracy: +/- 1% FDS

He-analyser: Ultrasound (patented)

Measurement range: 0 to 20% He

Measurement accuracy: +/- 1% FDS

Including realtime CO2 measurement

Flow transducer option: Ultrasound (patented)

Dimensions:

- Measuring module (depth x width x height): 31 x 26 x 21 cm
- Measurement desk (depth x width x height): 77 x 80 x 81 cm

Weight:

- Measurement module: 7.6 kg
- Whole measuring system: about 70 kg

Automatic BTPS correction

RS 232- infrared interface for a 4 KV insulation between PowerCube and personal computer

Diffusion Diagnosis

Unique single breath diffusion method

We are certified by DIN EN ISO 9001:2008 and DIN EN ISO 13485:2003

All our devices are compliant with ATS/ERS guidelines

Images don’t necessarily show the standard version. Technical changes and improvements as well as the availability of the listed devices and options may be subject to changes. 01/13
A quick and reliable diagnosis of diffusion and distribution disorders

The accurate and reliable analysers enable a high-resolution display of the wash-in curves of CO and He. Valuable information on diffusion and distribution disorders become visible at first glance.

For the automated evaluation there are several standards at your disposal.

As standard on all Ganshorn measuring programmes a manual evaluation is possible, and not only directly after the measurement.

The manual evaluation always refers to the original data that prevents repeated evaluation issues.

Both the hardware and the software of the PowerCube Diffusion+ are designed to keep measurements and patient guidance as simple as possible. A well organised workflow of measurements allows you to work quickly and effectively.

Our pressure controlled demand valve allows patients to inhale directly out of the gas tank. This always ensures inhaling the correct gas value. It also reduces the cost per measurement.

Accurate and reliable gas analysers are the prerequisites for good measurements. Besides, Ganshorn analysers have long term stability and are virtually maintenance free.

He-FRC measurements meet ERS standards

The PowerCube Diffusion+ measures the He-FRC by means of the inert gas helium as per ERS standards.

- Long lifetime concept
- Optimises your cost of goods
- High quality

The breath-holding time is adjustable and, of course, complies with the ERS standards.

To ensure high quality results Ganshorn allows you to exercise the single breath manoeuvre with ambient air instead of measuring gas.

Animated incentives assist the patient during the measurement and optimise cooperation and control of the breathing manoeuvre. This helps to achieve more accurate measurements and saves time and money.

Option to have Realtime Diffusion in the Ganshorn body cabin:

- Bodyplethysmography
- Bronchial provocation
- N2 washout
- FRC rebreathing
- Capnometry
- Emphysema test

The Ganshorn PowerCube Body+ measures realtime diffusion as well as:

- Option to have Realtime Diffusion in the Ganshorn body cabin:

The PowerCube Diffusion+ and PowerCube Body+ patient interface is very easily adjustable

Please contact us or refer to our PowerCube Body+ brochure for more information.