Medical Suction Units
Dear clients,

With present brochure we would like to introduce our newest medical suction units, which comply with demands of relevant international standards and include the most advanced technical solutions, based on our 30 years experiences with production of medical equipment. In this brochure you will find the most important benefits which devices offer, while detailed technical data and drawings are available in our Technical Catalogue.

Our entire production program of medical equipment includes the following product-groups:

- Central System of Medical Gases
- Medical Suction Units
- Oxygen Therapy Devices
- Bed Head Units
- Medical Supporting Equipment

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   Powered either by compressed air or vacuum these devices are appropriate for all kinds of aspirating purposes.

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Vacuum powered suction units

Vacuum powered suction units are connected to the central vacuum system directly or with a connector on a flexible tube. The basic device (vacuum regulator) consists of regulation button, manometer, shut-off valve, central system connector, outlet connectors, bacterial filter and as optional equipment a safety jar with the shut-off valve, which prevents the liquid from entering the device.

In the combination with various suction jars a vacuum regulator can form various types of suction units:
- portable suction unit with reusable suction jars,
- portable suction unit with suction bags for single use,
- mobile suction unit of the operational field.

The manometer and the safety jar with the outlet connector can be rotated, so that the user can always put them in the most convenient position.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacuum regulation range:</td>
<td>from 0 to -1.0 bar</td>
</tr>
<tr>
<td></td>
<td>from 0 to -0.25 bar</td>
</tr>
<tr>
<td>Inlet pressure:</td>
<td>min -0.60 bar</td>
</tr>
<tr>
<td>Max. suction power:</td>
<td>-0.25 bar</td>
</tr>
<tr>
<td>Free air flow:</td>
<td>40 l/min (25 l/min at -0.60 bar)</td>
</tr>
<tr>
<td>Dimensions (mm):</td>
<td>110 × 140 × 160 (without a safety jar)</td>
</tr>
<tr>
<td></td>
<td>110 × 140 × 160 (with a safety jar)</td>
</tr>
<tr>
<td></td>
<td>500 × 750 × 450 (ID 1540002)</td>
</tr>
<tr>
<td></td>
<td>450 × 350 × 170 (ID 1550002, 1500002)</td>
</tr>
<tr>
<td>Weight - kg (total):</td>
<td>0.40 kg (without a safety jar)</td>
</tr>
<tr>
<td></td>
<td>0.70 kg (with a safety jar)</td>
</tr>
<tr>
<td></td>
<td>8.50 kg (model 1540002)</td>
</tr>
<tr>
<td></td>
<td>8.50 kg (model 1550002)</td>
</tr>
<tr>
<td></td>
<td>3.70 kg (model 1500002)</td>
</tr>
<tr>
<td>Standard:</td>
<td>ISO 10079-3</td>
</tr>
<tr>
<td>Classification by MDD 93/42:</td>
<td>IIa</td>
</tr>
</tbody>
</table>

**Vacuum调节范围**

- 0至-1.0 bar
- 0至-0.25 bar

**入口压力**

- min -0.60 bar

**最大抽吸功率**

- -0.25 bar

**自由空气流量**

- 40 l/min (25 l/min at -0.60 bar)

**尺寸（mm）**

- 110 × 140 × 160 (without a safety jar)
- 110 × 140 × 160 (with a safety jar)
- 500 × 750 × 450 (ID 1540002)
- 450 × 350 × 170 (ID 1550002, 1500002)

**重量 - 总质量（kg）**

- 0.40 kg (without a safety jar)
- 0.70 kg (with a safety jar)
- 8.50 kg (model 1540002)
- 8.50 kg (model 1550002)
- 3.70 kg (model 1500002)

**标准**

- ISO 10079-3

**分类依据MDD 93/42**

- IIa

**真空调节范围**

- 0至-1.0 bar
- 0至-0.25 bar

**入口压力**

- min -0.60 bar

**最大抽吸功率**

- -0.25 bar

**自由空气流量**

- 40 l/min (25 l/min at -0.60 bar)

**尺寸（mm）**

- 110 × 140 × 160 (without a safety jar)
- 110 × 140 × 160 (with a safety jar)
- 500 × 750 × 450 (ID 1540002)
- 450 × 350 × 170 (ID 1550002, 1500002)

**重量 - 总质量（kg）**

- 0.40 kg (without a safety jar)
- 0.70 kg (with a safety jar)
- 8.50 kg (model 1540002)
- 8.50 kg (model 1550002)
- 3.70 kg (model 1500002)

**标准**

- ISO 10079-3

**分类依据MDD 93/42**

- IIa
### GAS POWERED SUCTION UNITS

**Vacuum powered suction units**

#### AVAILABLE MODELS

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1510004</td>
<td>Vacuum regulator (0 to -1.0 bar), rail mounted, including safety jar, bacterial filter, silicone tube ø6mm and inlet probe</td>
</tr>
<tr>
<td>1510007</td>
<td>Vacuum regulator (0 to -1.0 bar), rail mounted, including bacterial filter, silicone tube ø6mm and inlet probe</td>
</tr>
<tr>
<td>1510006</td>
<td>Vacuum regulator (0 to -1.0 bar), directly, including safety jar, bacterial filter, silicone tube ø6mm and inlet probe</td>
</tr>
<tr>
<td>15100005</td>
<td>Vacuum regulator (0 to -1.0 bar), directly, including bacterial filter, silicone tube ø6mm and inlet probe</td>
</tr>
<tr>
<td>1510014</td>
<td>Vacuum regulator (0 to 250 mbar), rail mounted including safety jar, bacterial filter, silicone tube ø6mm and inlet probe</td>
</tr>
<tr>
<td>1510013</td>
<td>Vacuum regulator (0 to 250 mbar), rail mounted, including bacterial filter, silicone tube ø6mm and inlet probe</td>
</tr>
<tr>
<td>1510011</td>
<td>Vacuum regulator (0 to 250 mbar), directly, including safety jar, bacterial filter, silicone tube ø6mm and inlet probe</td>
</tr>
<tr>
<td>1510012</td>
<td>Vacuum regulator (0 to 250 mbar), directly, including bacterial filter, silicone tube ø6mm and inlet probe</td>
</tr>
<tr>
<td>1540002</td>
<td>Mobile suction unit, vacuum powered, complete with two suction jars (4000 ml), safety jar, bacterial filter, trolley with a jar carrier including antistatic wheels and all necessary tubes and inlet connector</td>
</tr>
<tr>
<td>1550001</td>
<td>Portable suction unit with two bags for single use and rail bracket, vacuum powered complete with all tubes, filters and inlet connector</td>
</tr>
<tr>
<td>1500002</td>
<td>Portable suction unit with two reusable suction jars and rail bracket, vacuum powered, complete with all tubes, filters and connectors</td>
</tr>
<tr>
<td>1540002</td>
<td>Mobile suction unit, vacuum powered, complete with two suction jars by choice (reusable suction jars: from 1000 to 4000 ml or suction bags for single use: from 2000 ml to 3000 ml), safety jar, bacterial filter, trolley with a jar carrier including antistatic wheels and all necessary tubes and inlet connector</td>
</tr>
</tbody>
</table>

#### AVAILABLE INLET CONNECTIONS

- German
- French
- British
- Italian
- Japanese
- Australian
Compressed air powered suction units

Compressed air powered suction units generate the vacuum with the compressed gas, usually air. For the conversion of compressed air into the vacuum, a so-called ejector is used. The ejector can be connected to the central system of compressed gas directly or with a connector on a flexible tube, whereas compressed gas from a cylinder can also be used.

A button for fine and rough vacuum regulation, a manometer (from 0 to -1.0 bar) for the display of currently selected vacuum power, a silencer, connecting accessories, a bacterial filter and an optional safety jar with a shut-off valve which prevents the liquid from entering the device are installed on the ejector. In the combination with various suction jars, an ejector can form various types of suction units:

- portable suction unit with reusable suction jars,
- portable suction unit with suction bags for single use,
- mobile suction unit of the operational field.

### TECHNICAL DATA

**Vacuum regulation range:** from 0 to -1.0 bar

**Max. suction power:** -0.9 bar

**Inlet pressure:** working 2.7 - 5.5 bar

**Free air flow:** 15 l/min, or 25 l/min

**Dimensions (mm):**
- A-connector: (100 + A) × 50 × 145 (without a safety jar)
- (100 + A) × 140 × 145 (with a safety jar)
- 500 × 750 × 450 (ID 1540001)
- 450 × 300 × 170 (ID 1500001, 1550000) A - BS 60 mm

**Weight – kg (total):**
- 0.65 kg (without a safety jar)
- 1.0 kg (with a safety jar)
- 6.80 kg (D 1540001)
- 3.70 kg (D 1500001)
- 3.50 kg (D 1550000)

**Temperature:** working 0 to 40°C

**Standard:** ISO 10079-3

**Classification by MDD 93/42:** IIa
GAS POWERED SUCTION UNITS

Compressed air powered suction units

Permanent drainages

Permanent drainages are used for protracted aspiratory interventions. The vacuum source goes through a water column which enables setting of low level vacuum rate in range between 0 and -0.05 bar.

AVAILABLE MODELS

<table>
<thead>
<tr>
<th>Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1510008</td>
<td>Portable permanent drainage, vacuum powered</td>
</tr>
<tr>
<td>1510009</td>
<td>Portable permanent drainage, compressed air powered</td>
</tr>
<tr>
<td>1520000</td>
<td>Portable permanent drainage, vacuum powered</td>
</tr>
<tr>
<td>1520001</td>
<td>Portable permanent drainage, compressed air powered</td>
</tr>
</tbody>
</table>

AVAILABLE INLET CONNECTIONS

German, French, British, Italian, Japanese, Australian

**AVAILABLE MODELS**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1520002</td>
<td>Portable permanent drainage, vacuum powered</td>
</tr>
<tr>
<td>1520001</td>
<td>Portable permanent drainage, compressed air powered</td>
</tr>
<tr>
<td>1530002</td>
<td>Rail mounted permanent drainage, vacuum powered</td>
</tr>
<tr>
<td>1530001</td>
<td>Rail mounted permanent drainage, compressed air powered</td>
</tr>
</tbody>
</table>

1500001 Portable suction unit with two reusable suction jars and rail bracket, compressed air/oxygen powered, complete with all tubes, filters and inlet connector

1550002 Portable suction unit with two bags for single use, compressed air/oxygen powered complete with all tubes, filters and inlet connector

1500000 Portable suction unit with two reusable suction jars and rail bracket, compressed air/oxygen powered, complete with all tubes, filters and inlet connector

1500001 Portable suction unit with two reusable suction jars and rail bracket, compressed air/oxygen powered, complete with all tubes, filters and inlet connector

1520000 Portable suction unit with two bags for single use, compressed air/oxygen powered complete with all tubes, filters and inlet connector

VACUMED - electrical powered drainage system
Reusable Suction Jars

Reusable suction jars are produced of polysulfon and can be cleaned with sterilisation to 134°C. Before use it is advisable to attach them to rail system with an appropriate connector or in the specially designed carrier on the suction unit. Every suction jar cover usually has two connectors. On the vacuum connector the vacuum tube is placed and on the patient connector you place the aspirating tube. Every suction jar cover is additionally equipped with a shut-off valve, which prevents liquid from entering the device.

Suction Bags for Single Use

Suction bags for single use allow more comfortable work than reusable suction jars. Before use they must be placed into a plastic bottle, which is attached to the rail system or into the specially designed carrier on the suction unit. Aspirated liquid is collected in a plastic bag and when full it is closed and removed together with the cover. Every suction bag cover usually has two connectors. On the vacuum connector the vacuum tube is placed and on the patient connector you place the aspirating tube. The suction bag cover is additionally equipped with a shut-off valve, which prevents liquid from entering the device and with a special cork, which prevents the outflow of liquid when the bag is full.
**ACCESSORIES**

**Available connections**

**Vacuum**
- 1047007: Inlet probe for vacuum, DIN standard
- 1047008: Inlet probe for vacuum, BS standard
- 1047003: Inlet probe for vacuum, AFNOR standard

**Air**
- 1046007: Inlet probe for AIR, DIN standard
- 1046004: Inlet probe for AIR, BS standard
- 1046003: Inlet probe for AIR, AFNOR standard
- 1047028: Inlet probe for vacuum, CISU standard
- 1047023: Inlet probe for vacuum, CCU standard
- 1048025: Inlet probe for vacuum, SS standard

**Consumables**
- 1610090: Hose holder for rail
- 1540101: Aspirating accessory with fingertip
- 1750002: Bacterial filter for silicon hose
- 1048025: Inlet probe for vacuum, SS standard

**Flexible hoses**
- 1340100: Silicon hose ø12/6 mm
- 1050002: Flexible pressure hose ø12/6 mm; yellow color
- 1050003: Flexible pressure hose ø12/6 mm; blue color
- 1050004: Flexible pressure hose ø12/6 mm; white color
- 1050005: Flexible pressure hose ø12/6 mm; grey color
- 1050006: Flexible pressure hose ø12/6 mm; black color
- 1050007: Flexible pressure hose ø12/6 mm; green color
- 1050008: Flexible pressure hose ø12/6 mm; black-white color
- 1050009: Flexible pressure hose ø12/6 mm; black-white color

**Switch**
- 1548040: Foot switch for VACUMED
- 1047028: Inlet probe for AIR, CISU standard
- 1047023: Inlet probe for AIR, CCU standard
- 1048015: Inlet probe for AIR, SS standard
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All products comply with:
MDD 93/42/EEC and 2007/47/EEC