Novalung kits
Heart and Lung Therapies
Our Novalung kits are used together with our console in LUNG ASSIST MODE for ECMO treatments.

The intended use of the Novalung kits is extracorporeal gas exchange, pumping of blood and thermoregulation of blood.

**Elementary features**
- Certified for 29 days application period
- Matching pump sizes for 1/4" or 3/8" tubing
- x.ellence multi-layer coating

- Wide range of extracorporeal respiratory support from CO₂ removal to oxygenation support

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<table>
<thead>
<tr>
<th>MiniLung kit 1/4&quot;</th>
<th>XLung kit 230</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article no.</td>
<td>32000003</td>
</tr>
<tr>
<td>Coating</td>
<td>x.ellence</td>
</tr>
<tr>
<td>Blood flow rate</td>
<td>0.35 – 2.4 l/min</td>
</tr>
<tr>
<td>Tubing length</td>
<td>200 cm/200 cm</td>
</tr>
<tr>
<td>Total priming volume</td>
<td>240 ml ± 10 %</td>
</tr>
<tr>
<td>Pressure measurement</td>
<td>IPS</td>
</tr>
<tr>
<td>Temperature management</td>
<td>✓</td>
</tr>
<tr>
<td>Pump head size</td>
<td>DP3 1/4&quot;</td>
</tr>
<tr>
<td>Maximum gas flow rate</td>
<td>10 l/min</td>
</tr>
<tr>
<td>Maximum pressure on gas side</td>
<td>12 mmHg</td>
</tr>
<tr>
<td>Maximum pressure on blood side</td>
<td>600 mmHg</td>
</tr>
<tr>
<td>Maximum recommended water pressure</td>
<td>750 mmHg</td>
</tr>
<tr>
<td>Surface area of gas exchanger</td>
<td>0.65 m²</td>
</tr>
</tbody>
</table>

**Further information (single components)**

**Gas exchanger**
- Material: Polymethylpentene (PMP)
  - Plasma-tight Polymethylpentene (PMP) multilayer coating
  - Temperature management possible

**Integrated Pressure Sensors (IPS)**
- IPS without connectors and continuous visibility
- No interruption of the tubing system allowing undisturbed blood flow
- Pressure measurement without blood contact reduces the risk of air aspiration
- No calibration during therapy necessary
- Design of the IPS sensors makes regular rinsing unnecessary and thus avoids hemodilution

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1. **DP3 pump head**
   - Novalung kits include the DP3 pump head, with a diagonal flow
   - 1/4" with up to 2.4 l/min blood flow
   - 3/8" with up to 8 l/min blood flow

2. **Oxygenator**
   - Different sizes to meet patients’ needs
   - Plasma-tight Polymethylpentene (PMP) multilayer coating
   - Temperature management possible

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3. ** Integrated Pressure Sensors (IPS)**
   - IPS without connectors and continuous visibility
   - No interruption of the tubing system allowing undisturbed blood flow
   - Pressure measurement without blood contact reduces the risk of air aspiration
   - No calibration during therapy necessary
   - Design of the IPS sensors makes regular rinsing unnecessary and thus avoids hemodilution

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1. **Elementary features**
2. **Oxygenator**
3. **Integrated Pressure Sensors (IPS)**

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**Sterilization method**
- Ethylene oxide (EO)

**Measuring range IPS**
- -400 mmHg bis +400 mmHg (+53kPA bis +53kPA)
End of 2016, Xenios became a part of Fresenius Medical Care, the world’s leading provider of products and services for people with chronic kidney failure.

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