10 Liter Oxygen Concentrator
Model 1025

Factory Drive DeVilbiss Healthcare, Somerset Pennsylvania, USA
1025KS – 10L Oxygen Concentrator

Features and Benefit

Technical FAQ
## OXYGEN CONCENTRATOR 1025KS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size (H x B x T)</td>
<td>62,2 x 34,2 x 30,4 cm</td>
</tr>
<tr>
<td>Weight</td>
<td>19 Kg</td>
</tr>
<tr>
<td>Flow</td>
<td>2,0 - 10 l/min</td>
</tr>
<tr>
<td>Oxygen Percentage</td>
<td>87% - 96%</td>
</tr>
<tr>
<td>Outlet Pressure</td>
<td>20.0 ± 1.0 psi</td>
</tr>
<tr>
<td>Outlet Pressure Auxiliary Port</td>
<td>&lt;15 psi / 2LPM Fflow (max. 6LPM Flow)</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>664 Watt average</td>
</tr>
<tr>
<td>Alarms</td>
<td>Low Oxygen</td>
</tr>
<tr>
<td></td>
<td>Power Failure</td>
</tr>
<tr>
<td></td>
<td>System Failure</td>
</tr>
<tr>
<td></td>
<td>No Flow</td>
</tr>
<tr>
<td></td>
<td>High Temperature</td>
</tr>
<tr>
<td></td>
<td>High Pressure</td>
</tr>
</tbody>
</table>
- For therapy setting – ball should be centered
- Do not set Flow > 10 LPM – high flow alarm
- Do not set Flow < 2 LPM – low flow alarm

- Locking screw with 1/16th inch Allen wrench
- Prevents unintended setting
OXYGEN CONCENTRATOR 1025KS

BACK VIEW

- Filter Door
  - design improves intake airflow
  - Gross particle filter – optional
  - Backwards compatible - interchangeable
- Long – Life Filter

Air intake holes
on bottom of filter
- Auxiliary Oxygen Port
  - Can be used to fill oxygen cylinders with an FDA-cleared cylinder filling device
  - The filling device must be designed to use oxygen from a concentrator
  - Maximum recommended flow is 6 LPM when an oxygen bottle is being filled with oxygen from the auxiliary port
- Outlet pressure <15 psi
- Flow setting 2LPM – 6 LPM
OXYGEN CONCENTRATOR 1025KS

DISPLAY – LEDS / HOUR METER

- Device test at start
- Low O2 at warm up
  - Can last several minutes
- Therapeutic oxygen level obtained
- O2 level below 60%
  - Beeping audible alarm and red LED
  - System failure
- Digital hour meter
  - Decimal value – anything right hand side is a 1/10th of an hour
  - 5.5 = Five and a half hours
  - 55.0 = Fifty five hours
OXYGEN CONCENTRATOR 1025KS

REAR INSIDE

- Compressor Filter
- Compressor with Pressure relief valve

Old Style (no longer used)
- O2 Outlet pressure regulator – 20 PSI
- Auxiliary pressure regulator – 8.5 PSI
- New Purge Manifold
- PC-Board with OSD (Oxygen Sensing Device)
- OSD monitors the oxygen produced by the unit
- Purge Manifold allows easy pressure testing at accumulator tank
- Attach pressure gauge to the fitting. Turn Concentrator on and set flow to 10 LPM
- During each timed cycle, the average pressure in the oxygen accumulator tank will rise and fall.
- High and low pressure should be consistent. All consecutive high pressures should be within 2 psi of each other, and all consecutive low pressures should be within 2 psi of each other.
- Higher pressure may be related to bad sieve beds – check concentration!
- Lower pressure maybe related to occluded filters, tubing connections or compressor

### TYPICAL PEAK ACCUMULATOR TANK PRESSURE RANGE @ 10LPM

<table>
<thead>
<tr>
<th>Altitude</th>
<th>Psi</th>
<th>kPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 457 m</td>
<td>25-36</td>
<td>172-248</td>
</tr>
<tr>
<td>0 to 1500 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>457 to 914 m</td>
<td>21-33</td>
<td>145-228</td>
</tr>
<tr>
<td>1500 to 3000 ft.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>914 to 1524 m</td>
<td>21-30</td>
<td>145.207</td>
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<tr>
<td>3000 to 5000 ft.</td>
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</table>
OXYGEN CONCENTRATOR 1025KS

- Sieve Beds
- Best-in-Class sieve bed design & production
- Sieve material is stored in climate controlled, zero humidity atmosphere
- Automated filling process for each sieve bed

- Rotary Valve
- Unique design
- Less sensitive to contamination
DO NOT OVERLOOK THE OBVIOUS WHEN TROUBLESHOOTING

**Quick Visual Inspection:**
- Loose hoses / big leaks
- Broken fitting
- Broken or disconnected wire
- Is flow meter set properly?
- Is cooling fan running?
- Audible or visual alarms not working
- Damaged line cord or cabinet part

**Eaves of Emissary Noise:**
- PR valve exhausting pressure
- Intake hose disconnected
- Exhaust muffler broken or disconnected
- Whistling noise (regulator or manifold)

**General Observations:**
- Unusual smell or odor
- Very warm to the touch
Assembled in the USA and built in the same shell as the 5 Liter, the 10 Liter Concentrator is also compatible with cylinder transfill systems.

With a weight of 19Kg and an identical footprint to the 5-liter Concentrator 525 unit, the 1025 is substantially smaller and lighter than competitive 10 Liter concentrators.

Capable of delivering to 96% of O₂ purity from 2 to 10 LPM.

Exclusive DeVilbiss OSD® (Oxygen Sensing Device), standard on every unit, monitors the oxygen produced and ensures patient safety.

Equipped with accessible patient controls, bright LEDs that can be seen from a distance, protected cannula fitting and recessed humidifier nook to prevent damage.

Supports oxygen tubing 15 meters plus 2,1 m cannula.

High outlet pressure supports additional equipment.

Easy to service.
Thank You!