

**WARNING**

To avoid electric shock, do not plug the concentrator into an AC outlet if the concentrator cabinet is broken. Do not remove the concentrator cabinet. The cabinet should only be removed by a qualified DeVilbiss technician. Do not apply liquid directly to the cabinet or utilize any petroleum-based solvents or cleaning agents.

**CAUTION**

Use of harsh chemicals (including alcohol) is not recommended. If bactericidal cleaning is required, a non-alcohol based product should be used to avoid inadvertent damage.

**TROUBLESHOOTING**

The following troubleshooting chart will help you analyze and correct minor oxygen concentrator malfunctions. If the suggested procedures do not help, switch to your reserve oxygen system and call your DeVilbiss homecare provider. Do not attempt any other maintenance.

**WARNING**

To avoid electric shock, do not plug the concentrator into an AC outlet if the concentrator cabinet is broken. Do not remove the concentrator cabinet. The cabinet should only be removed by a qualified DeVilbiss technician.




**Troubleshooting Chart**

SYMPTOM	POSSIBLE CAUSE	REMEDY
A. Unit does not operate. All lights are off when the power switch is "On." Audible alert is pulsing.	1. Power cord not properly inserted into wall outlet.	1. Check power cord connection at the wall outlet. On 230 volt units, also check the mains connection on the back of the unit.
	2. No power at wall outlet.	2. Check your home circuit breaker and reset if necessary. Use a different wall outlet if the situation occurs again.
	3. Oxygen concentrator circuit breaker activated.	3. Press the concentrator circuit breaker reset button located below the power switch. Use a different wall outlet if the situation occurs again. If the above remedies do not work, contact your DeVilbiss provider.
B. Unit operates. Red Service Required light is illuminated. Audible alert may be sounding.	1. Filter door vents are blocked.	1. Check filter door vents and ensure that the openings are not blocked.
	2. Exhaust is blocked.	2. Check the exhaust area and make sure there is nothing restricting the unit exhaust.
	3. Blocked or defective cannula, face mask, or oxygen tubing.	3. Detach cannula or face mask. If proper flow is restored, clean or replace if necessary. Disconnect the oxygen tubing at the oxygen outlet. If proper flow is restored, check oxygen tubing for obstructions or kinks. Replace if necessary.
	4. Blocked or defective humidifier bottle.	4. Detach the humidifier from the oxygen outlet. If proper flow is obtained, clean or replace humidifier.
	5. Flow meter set too low.	5. Set flow meter to prescribed flow rate. If the above remedies do not work, contact your DeVilbiss provider.
C. Unit operates. Audible low-frequency vibration sound is detected.	1. Electronic Assembly Malfunction.	1. Turn your unit "OFF." Switch to your reserve oxygen system and contact your DeVilbiss provider immediately.
D. Yellow Low Oxygen light is on.	1. Unit in "start up" mode.	1. Allow unit up to 15 minutes to complete start up period.
E. The yellow Low Oxygen light is on and the intermittent audible signal is sounding.	1. Flow meter is not properly set.	1. Ensure the flow meter is properly set to the prescribed number. (The maximum flow meter setting is 3 LPM when an oxygen bottle is being filled with oxygen from the auxiliary port.)
	2. Filter door vents are blocked.	2. Check filter door vents and ensure that the openings are not blocked.
	3. Exhaust is blocked.	3. Check the exhaust area and make sure there is nothing restricting the unit exhaust. If the above remedies do not work, contact your DeVilbiss provider.
F. Red Service Required light is on and an intermittent audible signal is sounding.	1. Flow meter is not properly set.	1. Ensure the flow meter is properly set to the prescribed number. (The maximum flow meter setting is 3 LPM when an oxygen bottle is being filled with oxygen from the auxiliary port.)
	2. Filter door vents are blocked.	2. Check filter door vents and ensure that the openings are not blocked.
	3. Exhaust is blocked.	3. Check the exhaust area and make sure there is nothing restricting the unit exhaust. If the above remedies do not work, contact your DeVilbiss provider.
	4. Electronic Assembly Malfunction.	4. Turn your unit "OFF." Switch to your reserve oxygen system and contact your DeVilbiss provider immediately.
G. If any other problems occur with your oxygen concentrator.		1. Turn your unit "OFF." Switch to your reserve oxygen system and contact your DeVilbiss provider immediately.
H. Unit operates. Any of the visual and audible alerts do not function when the power switch is turned "ON."	1. Electronic assembly malfunction.	1. Turn your unit "OFF." Switch to your reserve oxygen system and contact your DeVilbiss provider immediately.




## OVERVIEW OF ALARMS AND SERVICE INDICATORS

This device contains an alarm system which monitors the state of the device and alerts of abnormal operation, loss of essential performance or failures. Alarm conditions are shown on the LED display. The alarm system functions are tested at power up by lighting all visual alarm indicators and sounding the audible alarm (beep).

All alarms are Low Priority Technical Alarms.

Alert or Alarm Condition	LED Icon	Details of Alert or Alarm Condition	Visual Alert or Alarm	Audible Alarm	Action
Start-up Period		The unit has recently been started and is in start-up period, the output flow of the oxygen is temporarily < 82%	The YELLOW LED light on the panel is illuminated indicating low O2 condition	No audible alarm during start-up period	Wait for unit to finish start-up period, up to 15 minutes
Low Oxygen Output Concentration		The output flow of oxygen is ≤ 82%, which indicates the unit may need routine servicing	The YELLOW LED Light on the panel is illuminated, indicating a Low O2 condition	The audible alarm is beeping intermittently	Contact your Oxygen Equipment Provider for assistance and to arrange for servicing of the unit
Device Malfunction		The device is experiencing a malfunction that requires servicing to correct	The RED Service Required LED light is illuminated	The audible alarm is beeping intermittently	Contact your Oxygen Equipment Provider for assistance and to arrange for servicing of the unit

## SPECIFICATIONS

DEVILBISS 10-LITER SERIES			
Catalog Number	1025DS	1025KS	1025UK
Delivery Rate	2 to 10 LPM	2 to 10 LPM	2 to 10 LPM
Maximum Recommended Flow (@ nominal outlet pressures of zero and 7 kPa)**	10 LPM	10 LPM	10 LPM
Outlet Pressure	20.0 ± 1.0 psi (138 kPa +/- 7 kPa)	20.0 ± 1.0 psi (138 kPa +/- 7 kPa)	20.0 ± 1.0 psi (138 kPa +/- 7 kPa)
Auxiliary Oxygen Port **	Outlet Pressure: <15 psi Outlet Flow: 2 LPM	Outlet Pressure: <15 psi Outlet Flow: 2 LPM	Outlet Pressure: <15 psi Outlet Flow: 2 LPM
Electrical Rating	120 V, 60 Hz, 6.1 Amp	230 V~, 50 Hz, 3.2 Amp	240 V~, 50 Hz, 3.2 Amp
Operating Voltage Range	102-132 V~, 60 Hz	195-253 V~, 50 Hz	204-264 V~, 50 Hz
Oxygen Percentage	2-10 LPM=87%-96%	2-10 LPM=93% +3%/-6%	2-10 LPM=93% +3%/-6%
Operating Atmospheric Pressure			
1010 hPa to 840 hPa 0-1500 M (0-4921 ft)	Across the voltage range; tested at 70°F (21°C) only; No degradation of performance	Across the voltage range; tested at 70°F (21°C) only; No degradation of performance	Across the voltage range; tested at 70°F (21°C) only; No degradation of performance
Operating Environment Range	41°F (5°C) to 95°F (35°C)	41°F (5°C) to 95°F (35°C)	41°F (5°C) to 95°F (35°C)
Operating Relative Humidity Range	15% to 93%, non-condensing	15% to 93%, non-condensing	15% to 93%, non-condensing
Power Consumption	120 vac, 60HZ: 639 watts average	230 vac, 50Hz: 664 watts average	240 vac, 50Hz: 670 watts average
Weight	42 lbs. (19 Kilograms)	42 lbs. (19 Kilograms)	42 lbs. (19 Kilograms)
Safe Working Load	53 lbs. (24 Kilograms)	53 lbs. (24 Kilograms)	53 lbs. (24 Kilograms)
Sound Pressure Level at 3 and 10LPM	<59 dBA	<57 dBA	<57 dBA
Sound Power Level at 3 and 10 LPM	<69 dBA	<67 dBA	<67 dBA
Dimensions	24.5"H x 13.5"W x 12"D (62.2 x 34.2 x 30.4 cm)	24.5"H x 13.5"W x 12"D (62.2 x 34.2 x 30.4 cm)	24.5"H x 13.5"W x 12"D (62.2 x 34.2 x 30.4 cm)
Maximum Limited Pressure	35 PSIG (241 kPa)	35 PSIG (241 kPa)	35 PSIG (241 kPa)
Operating System	Time Cycle / Pressure Swing	Time Cycle / Pressure Swing	Time Cycle / Pressure Swing
Low Oxygen Indicator	<82% low oxygen <60% very low oxygen	<82% low oxygen <60% very low oxygen	<82% low oxygen <60% very low oxygen
Storage Conditions	-13°F (-25°C) to 158°F (70°C), humidity range of 15% to 93% non-condensing	-13°F (-25°C) to 158°F (70°C), humidity range of 15% to 93% non-condensing	-13°F (-25°C) to 158°F (70°C), humidity range of 15% to 93% non-condensing
Equipment Class and Type	<input type="checkbox"/> Class II Equipment Double Insulated;  Type B Applied Part Ordinary Equipment, IP21	<input type="checkbox"/> Class II Equipment Double Insulated;  Type B Applied Part IP21	<input type="checkbox"/> Class II Equipment Double Insulated;  Type B Applied Part IP21

## DEVILBISS 10-LITER SERIES

Catalog Number	1025DS	1025KS	1025UK
Approval Body and Safety Standard	TUV ANSI/AAMI ES60601-1:2005+A2 (R2012) +A1 IEC 60601-1-6:2010 IEC 60601-1-11:2015 ISO 80601-2-69:2014 CAN/CSA-C22.2 No. 60601-1:14 CAN/CSA-C22.2 No. 60601-1-6:11 CAN/CSA-C22.2 No. 60601-1-11:15 CAN/CSA-C22.2 No. 80601-2-69:16	TUV IEC 60601-1:2012 IEC 60601-1-6:2010+A1 IEC 60601-1-11:2015 EN ISO 80601-2-69:2014	TUV IEC 60601-1:2012 IEC 60601-1-6:2010+A1 IEC 60601-1-11:2015 EN ISO 80601-2-69:2014
CE mark	No	Yes	Yes
EMC Compliance To	EN60601-1-2	EN60601-1-2	EN60601-1-2

**\*\* ⚠ CAUTION**– The maximum recommended flow is 6 LPM when an oxygen bottle is being filled with oxygen from the auxiliary oxygen port.

Specifications subject to change without notice.

### Oxygen Concentration vs Flow Rate

Flow L/m	%O <sub>2</sub>
10	87% - 92%
9	87% - 93%
8	87% - 95%
7	87% - 96%
6	87% - 96%
5	87% - 96%
4	87% - 95%
3	87% - 95%
2	87% - 94%

### ELECTROMAGNETIC COMPATIBILITY INFORMATION



#### WARNING

##### MR Unsafe

- Do not bring the device or accessories into a Magnetic Resonance (MR) environment as it may cause unacceptable risk to the patient or damage to the oxygen concentrator or MR medical devices. The device and accessories have not been evaluated for safety in an MR environment.
- Do not use the device or accessories in an environment with electromagnetic equipment such as CT scanners, Diathermy, RFID and electromagnetic security systems (metal detectors) as it may cause unacceptable risk to the patient or damage to the oxygen concentrator. Some electromagnetic sources may not be apparent, if you notice any unexplained changes in the performance of this device, if it is making unusual or harsh sounds, disconnect the power cord and discontinue use. Contact your home care provider.
- This device is suitable for use in home and healthcare environments except for near active HF SURGICAL EQUIPMENT and the RF shielded room of an ME SYSTEM for magnetic resonance imaging, where the intensity of Electromagnetic DISTURBANCES is high.



#### WARNING

Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.



#### WARNING

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the oxygen concentrator, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.