

Oxygen Concentrator SZ-T

User's manual



**DO NOT OPERATE THIS UNIT WITHOUT FIRST
READING AND UNDERSTANDING THIS MANUAL.**

September 2019

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SAFETY NOTES

WARNING: For avoiding power outage or oxygen concentrator operating failure, exigent oxygen user and serious patient must equip with reserve oxygen supply (for example: oxygen cylinder, oxygen bag). This device is to be used as an oxygen supplement and is not considered life supporting or life sustaining.

I . BEFORE INSTALLATION

- The concentrator should always be kept in the upright to prevent cabinet damage while being transported.
- Electrical source, power voltage is instable that beyond normal power voltage range. Please add manostat.
- Use eligible, safe power set and junction box.
- Curbstone people do not open oxygen concentrator's cabinet.

II . PUT POSITION

- You may select a room in your house where using your oxygen concentrator would be most convenient. Your concentrator can be easily rolled from room to room on its casters.
- Be certain to place the unit so all sides are at least 10cm (4inches) away from walls, draperies, furniture, or other obstruction. Do not place the unit in a confined area.
- Oxygen concentrator must avoid heat source, fire source, wetness, exorbitant or over-low extraventricular condition.
- Sundries and vessel do not be placed on top of the concentrator.
- NEVER block the air openings of the unit or place it on a soft surface, such as a bed or couch, where the air opening may be

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blocked. Keep the openings free from lint, hair and the like.

III. USING

- The use of oxygen therapy requires that special care be taken to reduce the risk of fire. Users **MUST NOT SMOKE** while using this device. Keep all matches, lighted cigarettes or other sources of ignition out of the room in which this product is located. **NO SMOKING** signs should be prominently displayed. Textiles and other materials that normally would not burn are easily ignited and burn with great intensity in oxygen enriched air. Failure to observe this warning can result in severe fire, property damage and cause physical injury or **DEATH**.
- For optimum performance, do not open or turn off the concentrator frequently, reset after 3 ~ 5 minutes. Shorter periods of operation may reduce maximum product life.
- A spontaneous and violent ignition may occur if oil, grease or greasy substances come in contact with oxygen under pressure. These substances **MUST** be kept away from the oxygen concentrator, tubing and connections, and all other oxygen equipment. **DO NOT** use any lubricants unless recommended by manufacturer.

IV. MAINTENANCE

The oxygen concentrator was specifically designed to minimize routine preventive maintenance at intervals of once per year. Only professionals of the healthcare field or persons fully conversant with

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this process such as authorized or factory trained personnel should perform preventive maintenance or performance adjustments on the oxygen concentrator.

V. RADIO FREQUENCY INTERFERENCE

- Most electronic equipment is influenced by Radio Frequency Interference (RFI). CAUTION should be exercised with regard to the use of portable communications equipment in the area around such equipment.

VI. TO REDUCE THE RISK OF BURNS, ELECTROCUTION, FIRE OR INJURY TO PERSONS.

- Avoid using while bathing. If continuous usage is required by the physician's prescription:

The concentrator must be located in another room at least 2.5m from the bath.

- DO NOT come in contact with the concentrator while wet.
- DO NOT place or store product where it can drop into water or other liquid.
- DO NOT reach for product that has fallen into water. UNPLUG IMMEDIATELY.
- A product should NEVER be left unattended when plugged in.
- This device is to be used only in accordance with the prescription of a physician and this User's Manual. If at any time the patient or attendant conclude that the patient is receiving an insufficient

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amount of oxygen, the supplier and/or physician should be contacted immediately. No adjustments should be made to the flow rate unless prescribed by a physician.

- Close supervision is necessary when this product is used near children or physically-challenged individuals.
- Use this product for only intended use as described in this manual.
- DO NOT use parts, accessories or adapters other than those authorized by manufacturer.
- DO NOT connect the concentrator in parallel or series with other oxygen concentrators or oxygen therapy devices.
- Use of some administration accessories or certain humidifiers not specified for use with oxygen concentrator may impair the performance.
- In certain circumstances oxygen therapy can be hazardous. Manufacturer recommends that you seek medical advice before using this product.
- Avoid creation of any spark near medical oxygen equipment. This includes sparks from static electricity created by any type of friction.

FEATURES

I . SUMMARY

The oxygen concentrator is intended for individual use in the home. It is an electronically operated device that separates oxygen from room air. It provides high concentration of oxygen directly to you through a nasal cannula. Clinical studies have documented that oxygen concentrators are therapeutically equivalent to other types of oxygen delivery systems.

This user's manual will tell you about your concentrator and will serve as a reference as you use your concentrator.

II . CHARACTERS

- Complete plastic out shell, safe and reliable.
- Timing accumulates function, show total working hours through the display screen.
- Timing turns off function using convenience.
- Exceed press safety valve helping safe ensure.
- Power loss alarm function, pressure and cycle failure alarm function, compressor failure alarm function.
- Low oxygen concentration alarm function.
- Compressor with hot protection which ensure safe of the compressor and concentrator.
- Manual and nasal oxygen cannula etc accessories can be put in the store box of concentrator.

FEATURES

III. SPECIFICATIONS

1. Flow Range: 1~10L/min
2. Oxygen Concentration: %87 ~ %95,5
3. Maximum Outlet Pressure: 20kPa~50kPa (2.9psi~7.25psi)
4. Pressure Relief Mechanism Operational at:
250kPa±25kPa (36.25psi±3.63psi)
5. Altitude: Up to 1828 meters (6000 ft) above sea level without degradation of concentration levels. From 1828 meters (6000 ft) to 4000meters (13129 ft) below 87% efficiency.
6. Sound Level: ≤59dB (A)
7. Power Supply: AC220V 50Hz
8. Dimension: H55.6cm (21.9")×W28.5cm (11.23")×D47cm(18.52")
9. Minimum Operating Time: 30minutes
10. Input Power: ≤700VA
11. Weight: 27kg (60 lbs)

- Electric classification: class II equipment, type B applied part
- Work system: work continuously.
- Keep it far from flammable and explosive gas area.

IV. NORMAL OPERATION CONDITIONS

- Temperature range: 10°C ~ 35°C (50°F ~ 95°F)
- Relative humidity: 20% ~ 60%
- Atmosphere pressure: 86kPa ~ 106kPa (12.47psi ~ 15.37psi)

HANDLING

I. UNPACKING

- Check for any obvious damage to the carton or its contents. If damage is evident, please notify the carrier or local dealer.
- Remove all loose packing from the carton.
- Carefully remove all the components from the carton.

NOTE: Unless the oxygen concentrator is to be used immediately, retain containers and packing materials for storage until use of the concentrator is required.

II. INSPECTION

Examine exterior of the oxygen concentrator for nicks, dents, scratches or other damages. Inspect all components.

III. STORAGE

- Store the repackaged oxygen concentrator in a dry area.
- DO NOT place other objects on top of the repackaged concentrator.

OPERATING & INSTALLATION

I . FEATURE VIEW

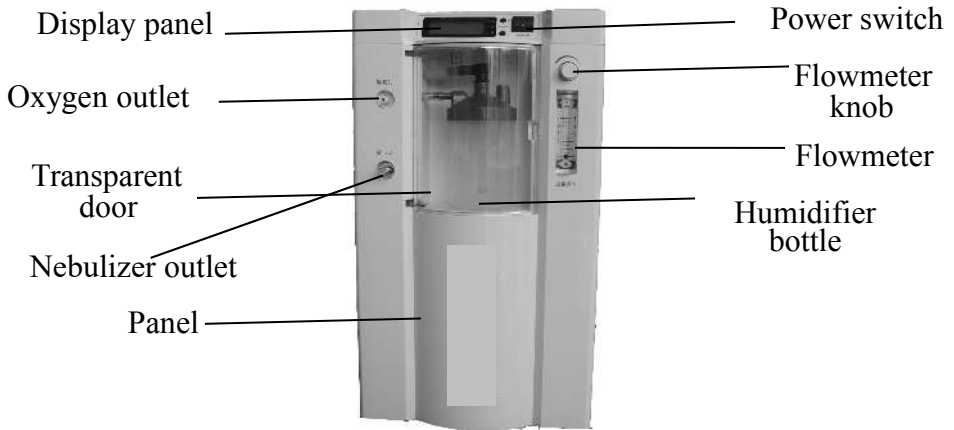


Figure 1

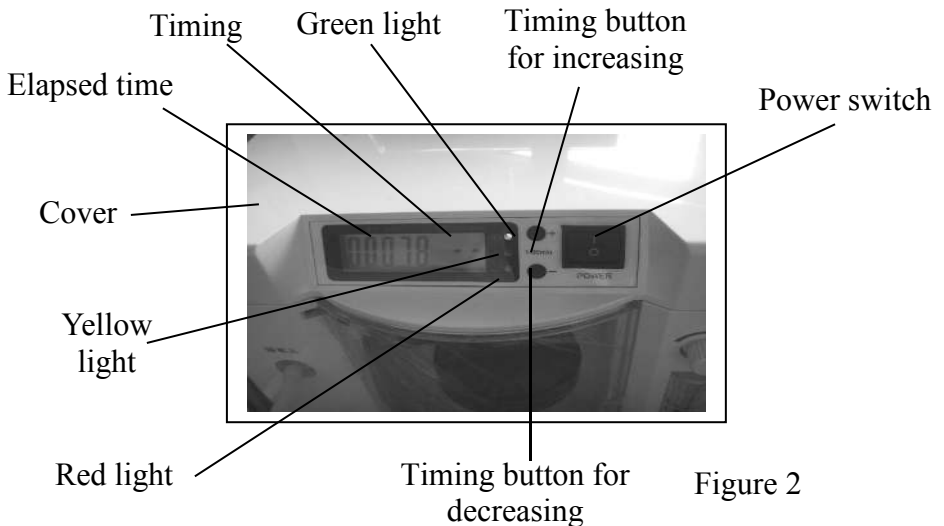


Figure 2

OPERATING & INSTALLATION

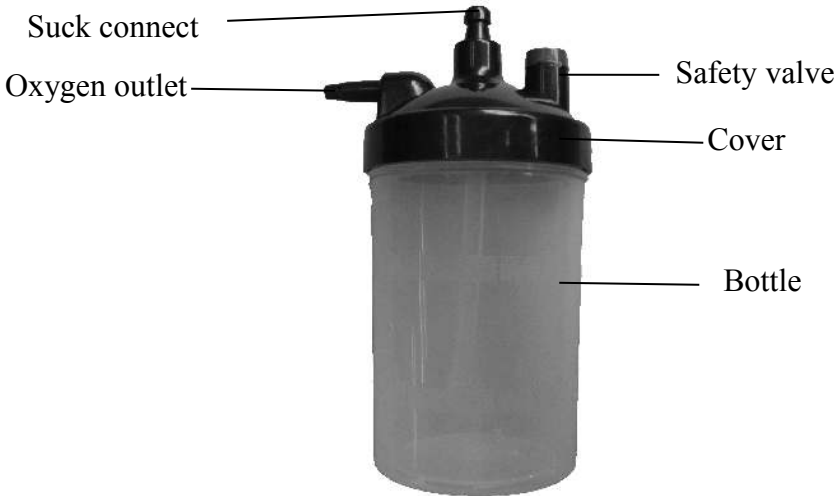


Figure 3: View of the humidifier

II. PREPARE WORK

1. Open the transparent door; unscrew the bottle from the humidifier clockwise. Fill the bottle with pure water (or distilled water) to the level indicated by the manufacturer.

DO NOT OVERFILL humidifier bottle. (Figure 4)

2. Screw securely the bottle back counterclockwise.
3. Close the transparent door.
4. Connect the power supply.

WARNING:

- 1) If the concentrator has a damaged cord or plug, if it is not working

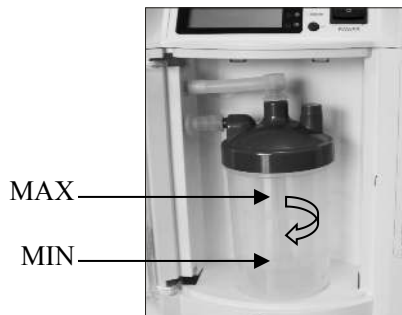


Figure 4

OPERATING & INSTALLATION

properly, if it has been dropped or damaged, or dropped into liquid, call Qualified Service Personnel for examination and repair.

- 2) Keep the cord away from HEATED or HOT surfaces.
 - 3) Do not move or relocate concentrator by pulling on the cord.
 - 4) Do not use extension cords with this unit.
5. Press down the power switch while the display shows “Elapsed time — — ” . After about four seconds, the concentrator will work.

NOTE: Concentrator may be used during the initial start warm-up time (approximately 30 min) while waiting for the O₂ purity to reach maximum.

OPERATING & INSTALLATION

III. OXYGEN ABSORBING OPERATION

1. FLOWRATE (Figure 5)

- Turn the flowrate knob to the prescribed by your physician or therapist.

NOTE: To properly read the flowmeter, locate the prescribed flowrate line on the flowmeter.

Next, turn the flow knob until the ball rises to the line. Now,

center the ball on the L/min line prescribed.

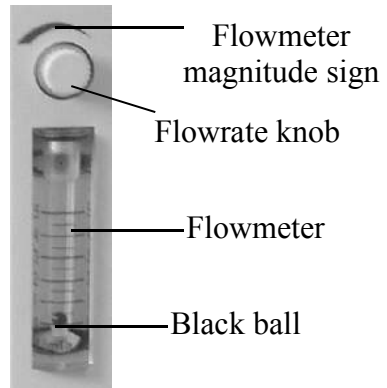


Figure 5

CAUTION: If the flowrate on the flowmeter ever falls below 0.5L/min, check tubing or accessories for blocked or kinked tubing or a defective humidifier bottle.

- Meanwhile, humidifier bottle will have air bubble around the sieve core. Then, oxygen comes from the oxygen outlet.
2. Connect nasal oxygen cannula to oxygen outlet, the other end match the patient.

Note: The time of absorbing oxygen and the flowrate range according to the doctor's advices.

OPERATING & INSTALLATION



IV.ALARM SIGNAL

- **Initial startup of the concentrator**

NOTE: Concentrator may be used during the initial start warm-up time (approximately 30 minutes) while waiting for the O₂ concentration to reach maximum.

When the unit is turned on, the green light will come on (O₂ concentration greater than 82%). After 5 minutes, the oxygen sensor will be operating normally and will control the indicator lights depending on oxygen concentration values. The explanations of the indicator light functions are as follows.

- **Explanation of the indicator light**

Symbol	Status	Indicator lights
I/O	SYSTEM OKAY (O ₂ concentration is greater than 82%.)	Green
	O ₂ concentration is greater than 50% and less than 82%.	Green Yellow
	SYSTEM FAILURE (O ₂ concentration is less than 50%; Or, High/Low cycle pressure failure alarm; Or, Compressor circuit failure alarm)	Red

- **Alarm signal register**

1. O₂ concentration is greater than 82%. -- Green light illuminates, and panel shows “elapsed time --”. Normal Operation.

OPERATING & INSTALLATION

2. O₂ concentration is greater than 50% and less than 82%. -- Green with yellow light illuminate, and panel shows elapsed time. Call Supplier Immediately. You may continue to use the concentrator unless instructed otherwise by your supplier. Be certain that **BACKUP OXYGEN** is nearby.
3. O₂ concentration is less than 50%. -- Red light illuminates, continuous audible alarm sounds, and panel shows word “LO” . Total unit shutdown. Switch immediately to backup oxygen supply. Call supplier immediately.
4. Low/ High cycle pressure failure alarm -- Red light illuminates, continuous audible alarm sounds, and panel shows word “E1 or E2 ” . Total unit shutdown. Switch immediately to backup oxygen supply. Call supplier immediately.
5. Compressor’s open/short circuit failure alarm -- Red light illuminates, continuous audible alarm sounds, and panel shows word “E3 or E4” . Total unit shutdown. Switch immediately to backup oxygen supply. Call supplier immediately.

OPERATING & INSTALLATION

V. SETTING TIMING UP

User can press the timing button in 00-99 minutes.











- When it start working, elapsed time and “--”shows on display, it says timing function not open. It will work continually until power supply cuts off.
- Press the “+”button once, operation time increases one minute, holding the button more than 1.5 seconds it will increase continually.
- Press the “-”button once, operation time decrease one minute, holding the button more than 1.5 seconds it will decrease continually.
- It will auto turn off when finishing timing meanwhile “00” show on display. Reset timing function.

VI. TURNING OFF

Take off nasal oxygen cannula from oxygen outlet first, close power switch, and then cut off power source.

OPERATING & INSTALLATION

VII. SYMBOLS

Symbol	Description	Symbol	Description
	Alternating current		Consult the manual
	Class II Equipment		Type B applied part
	OFF(power. disconnection from the mains)		ON(power. connection to the mains)
	NO SMOKING		KEEP UP
	FRAGILE		KEEP DRY

MAINTENANCE

NOTE: Power should be disconnected before beginning preventive maintenance on the concentrator. The concentrator is specifically designed to minimize routine preventive maintenance at intervals of once per year. In places with high dust or soot levels, maintenance may need to be performed more often. The following must be performed at a minimum of one year in service to assure years of additional reliability.

I . CLEANING CABINET

WARNING: CUT OFF the power supply first. To avoid electrical shock, DO NOT removes cabinet.

Clean the cabinet with a mild household cleaner and non-abrasive cloth or sponge at least one time each month.

II . CLEANING OR REPLACING FILTERS

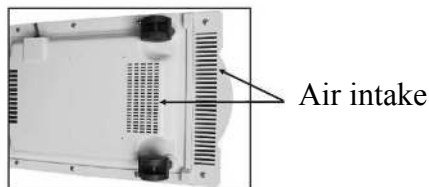
Please clean and replace the filters in time, it's very important to protect compressor and delay machine's life.

CAUTION: DO NOT operate the concentrator without the filters installed.

● Disassembly

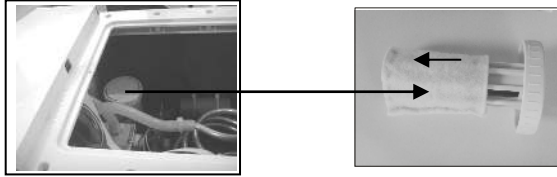
- 1) I -stage air intake cleans once a month. (Figure 6)

Figure 6



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Figure 7



2) II -stage filter mesh in filter cleans half a month. (Figure 7)

- ① Open the store box cover (Not: not exceed 90 degree, avoid break), unscrew the screw, take off the store box, and pull out the filter core.
- ② II -stage filter mesh cleaning time depends on practically using and condition. If the filter core becomes black, please replace or clean at once, whether the practice time is long or short.

● Cleaning

- 1) Clean the filters with a vacuum cleaner or wash in warm soapy water and rinse thoroughly.
- 2) DRY the filters thoroughly before reinstallation.

Damage: Do not operate the concentrator without the filters installed, or while filters are wet. These actions could permanently damage the concentrator.

III. CLEANING HUMIDIFIER

1. Change the water in humidifier bottle every day.
2. Clean humidifier once a week with soapy water and rinse it with a solution of ten (10) parts water and one (1) part vinegar. Rinse thoroughly with warm water and refill with pure water (or

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distilled water) to the level shown on the humidifier. (NOTE: No blobs in oxygen tubing)

- Disassembly

- 1) Open the transparent door; and screw off the bottle (Figure 8)
- 2) Take out of the core tube and sieve core (Figure 9)



Figure 8



Figure 9

IV. REPLACE FUSE TUBE

1. Fuse tube for net power (Figure 12)

Type: T5AL250V, $\Phi 5 \times 20$ (AC220V~240V)

T6AL250V, $\Phi 5 \times 20$ (AC100V~120V)

WARNING: CUT OFF the power supply first.

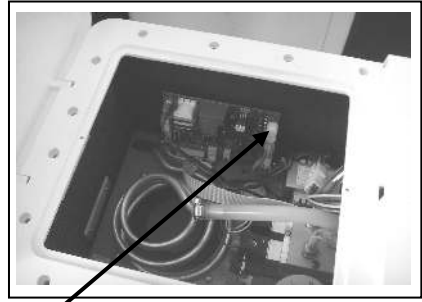
Open the store box cover, unscrew the screw, and take off the store box. Unscrew fuse box counterclockwise, replace the fuse tube.

MAINTENANCE



Fuse

Figure 12



Fuse

Figure 13

2. Fuse tube for circuit board (Figure 13)

Type: F1AL250V, $\Phi 5 \times 20$

WARNING: CUT OFF the power supply first.

Disassemble the top cover, front panel and front board. Pick out the fuse tube cover, take out the fuse tube and replace it.

MAINTENANCE

VI. TROUBLESHOOTING GUIDE

Symptom	Probable cause	Solution	Remark
Press the switch, the concentrator is alarm of continuous buzzer but no display and working.	1) Power cord NOT plugged in.	1) Insert plug into outlet.	Repairs by qualified personnel.
	2) No power at outlet.	2) Use normal power.	
	3) The fuse tube for net power break.	3) Replace fuse tube.	
	4) Tripped circuit breaker.	4) Replace it.	
Concentrator is working, the turning sound of assemble valve is weak and the flowmeter can turn down but can't turn up at a certain value.	1) I -stage filter blocked.	1) Clean or replace it.	Repairs by qualified personnel.
	2) II -stage filter blocked.	2) Clean or replace it.	
	3) Insufficient power at outlet.	3) Do not use extension cords. Move to another electrical outlet or circuit.	
	4) The air intake of compressor kinked.	4) Smooth them.	
	5) Pressure relief valve of compressor leaked gas.	5) Repair or replace the valve.	
	6) Tube on the sieve bed leaked gas.	6) Tighten it.	
	7) Insufficient air exchanging of assemble valve.	7) Replace the valve.	
	8) Failure of electronic control circuit.	8) Repair or replace it.	
Concentrator is working with a sound of phut-phut, and the ball in the flowmeter located on "0" position or float unstable.	1) Failure of pilot valve.	1) Repair or replace it.	Repairs by qualified personnel.
	2) Failure of assemble valve.	2) Replace it.	
	3) Failure of electronic control circuit board.	3) Repair or replace it.	

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Symptom	Probable cause	Solution	Remark
Concentrator is working, but oxygen from outlet is little or no.	1) Humidifier leaked.	1) Reinstall and tighten it.	
	2) Safety valve of humidifier opens.	2) Safety valve restoration.	
	3) The connection of the tubes loosened.	3) Insert tubes.	
	4) The nasal cannula kinked or blocked.	4) Replace it.	
Concentrator is working with normal sound, but flowmeter can turn down but can't turn down at a certain value.	1) The nasal cannula folded or blocked.	1) Smooth it.	
	2) The filter corn in humidifier bottle blocked.	2) Clean or replace the corn.	
	3) Tube connected with the oxygen outlet is folded or compressed.	3) Smooth it.	Repairs by qualified personnel.
Concentrator is working with normal sound, but flowmeter's display is "0" and can't turn up.	1) The air intake of flowmeter is loose.	1) Tighten it.	
	2) Flowmeter has fault.	2) Replace it.	
	3) The pressure regulator ruptured or blocked.	3) Replace it.	
Concentrator is working with normal sound, but the display has no display or appears disorderly code.	1) The connect line of display's twelve cores is loose.	1) Tighten the connecting line.	
	2) The connect line of display's twelve cores is broken.	2) Replace the connect line.	
	3) Display circuit board has fault.	3) Replace it.	
Press the switch, displaying is normal, but compressing pump/fan can't work.	1) Turning on/off the machine too frequently makes it breakdown.	1) Operate the concentrator after turning off 3 ~ 5 minutes.	
	2) Fuse tube on main controlling circuit board broke.	2) Replace it.	Repairs by qualified personnel.
	3) The main controlling circuit board has fault	3) Replace the main controlling circuit board.	

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Symptom	Probable cause	Solution	Remark
Concentrator is working, green with yellow light illuminate.	1) $50\% \leq$ oxygen concentration $< 82\%$	1) Clean or replace the filter.	
	2) Oxygen flowrate is more than 10L/min	2) Compiled doctor's advice, turn the flowmeter to the given value .	
	3) If this state continues, you may continue to use the concentrator. Contact the supplier at once.		
Concentrator is alarm and not working, the red light illuminate, the display screen shows "LO".	1) Oxygen concentration $< 50\%$	1) Clean or replace the filter.	
	2) Oxygen flowrate is more than 10L/min	2) Turn off the concentrator and on it again , turn the flowmeter to the given value.	
	3) If this state continues, stop using the concentrator and get in touch with the supplier at once.		
Concentrator is alarm and not working , the red light illuminate, display screen shows "E1".	1) Low cycle pressure failure.	1) Clean or replace the stage filter	
	2) If this state continues, stop using the concentrator and get in touch with the supplier at once.		
Concentrator is alarm and not working , the red light illuminate, display screen shows "E2".	1) High cycle pressure failure.	1) Stop using the concentrator and get in touch with the provider at once.	
Concentrator is alarm and not working , the red light illuminate, display screen shows "E3"	1) Compressor circuit is open circuit.	1) Stop using the concentrator and get in touch with the supplier at once.	

MAINTENANCE

Symptom	Probable cause	Solution	Remark
Concentrator is alarm and not working , the red light illuminate, display screen shows “E4”	1) Compressor circuit is short circuit.	1) Stop using the concentrator and get in touch with the supplier at once.	
The nasal cannula has more mirage or blobs.	1) It's not ventilate completely around machine, so operating temperature is too high.	1) Make sure the machine is at least 10 cm away from the walls, other jam or heater.	
	2) Temperature of the water added in humidifier bottle is overhigh.	2) Add cold water in bottle, but don't add overhot water.	
	3) The water added in humidifier bottle is too much.	3) Water added should between the maximum and minimum of the water curve.	
	4) The machine stops suddenly during breathing oxygen.	4) Stop breathing oxygen immediately. Restart the machine to eject the hydrosphere.	
	5) The machine stops suddenly when folding the nasal cannula.	5) Smooth the nasal cannula.	
	6) Fan inside the machine can't run or running rate turns slow make the operating temperature overhigh.	6)a. Take out the eyewinker that lock the fan. 6) b. Replace it.	Repairs by qualified personnel.

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Symptom	Probable cause	Solution	Remark
※ The nebulizer doesn't run.	1) Check nebulizer is distortion or not if it was disinfected.	1) Replace it.	<i>7F-5W model only</i>
	2) Check air hose whether it is bended or not.	2) Ensure that it isn't bended and airflow is flowed smoothly when it is used.	
	3) Check whether medication was used up or not.	3) Add appropriate amount medication to cup.	
	4) Check the nebulizer is fixed properly or not.	4) Fix it according the method of nebulizer's fixing.	
※ Water drops have formed on the air hose.	The medication was over-filled or the nebulizer was washed.	Add appropriate amount medication to cup. Connect air hose to main body and turn on. Close and open repeatedly by finger in order to get out the water drops.	

If you have all other problems, TURN OFF the concentrator first, use your reserve oxygen supply (if provided), and contact dealer or manufacturer immediately.

DISASSEMBLY(CUT OFF the power supply first)

I . DISASSEMBLE THE TOP COVER

- Open the transparent door, unscrew 2 fixing screws. (Figure 1)
- Open the store box cover, unscrew 2



Figure 1 Screws

fixing screws, and take out the store box.

- Unscrew 12 fixing screws (Figure 2), pull out of the connection -line of display's 12-cores and connection-peg of switch 6-cores (Figure 3).

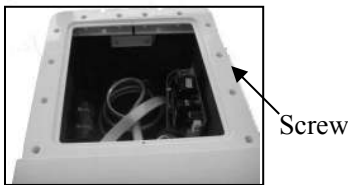


Figure 2

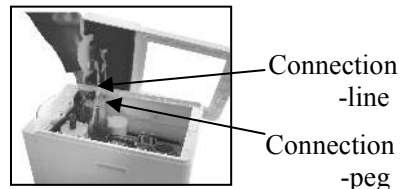


Figure 3

II.DISASSEMBLE THE FRONT PANEL

- Open the transparent door , pull the oxygen tube off the humidifier outlet.
- Unscrew 2 screws in the top of panel.(Figure 4) .Make concentrator horizontal, unscrew 2 fixing screws in the bottom.(Figure5),and take off the panel.

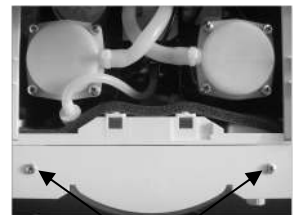


Figure 4

III.DIASSEMBLE THE FRONT BOARD

DISASSEMBLY(CUT OFF the power supply first)

Unscrew 8 fixing screws in the front board and take off it.
(Figure6)

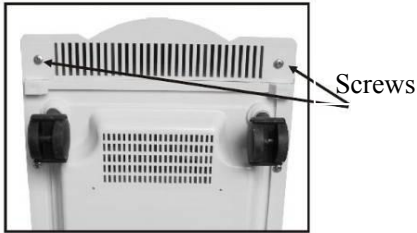


Figure 5

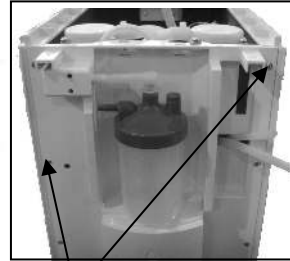


Figure 6

IV.DISASSEMBLE THE OUTSIDE CABINET

- Make concentrator horizontal; unscrew 10 fixing screws in the bottom. (Figure 7)
- Make the machine up-right , take out the cabinet parallel from the front.(Figure 8)

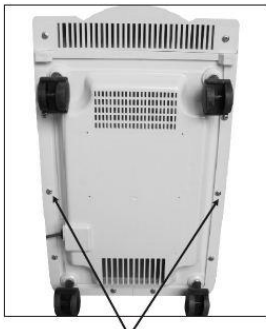


Figure 7

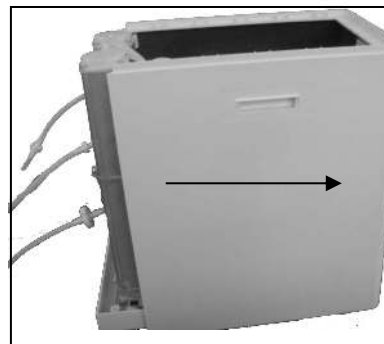


Figure 8

DISASSEMBLY (CUT OFF the power supply first)

V .DISASSEMBLE THE SIDE BOARD OF THE INSIDE CABINET

Unscrew the screws on both sides (9 screws each side) and take out it. (Figure 9, Figure 10)

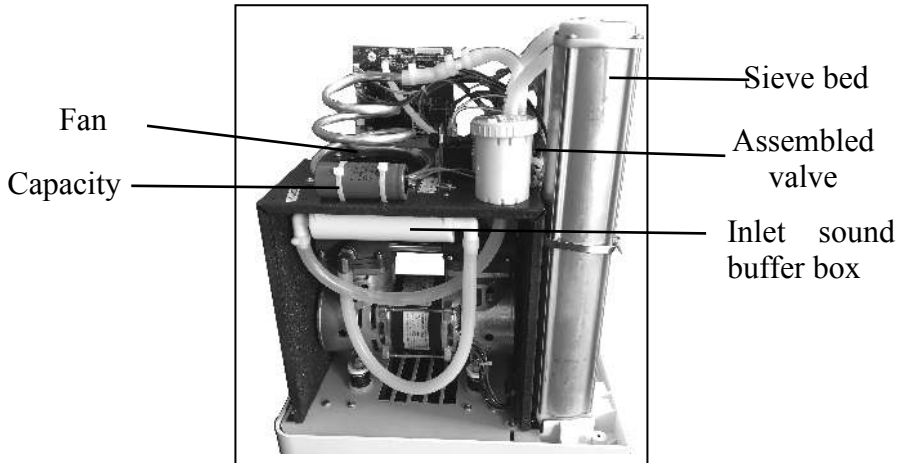


Figure 9

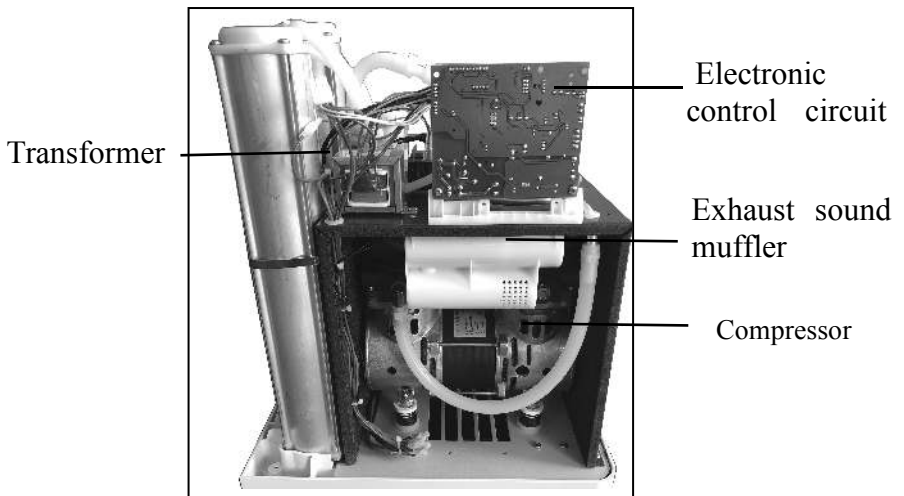


Figure 10

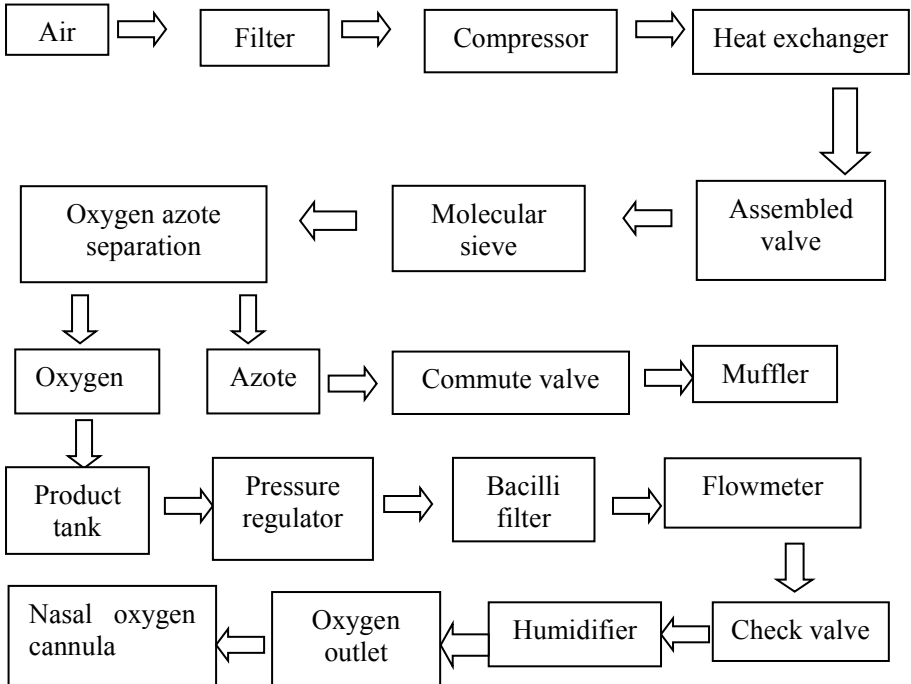
OTHER ATTENTION ITEMS

I . LIMITATION OF TRANSPORT AND STOCK

- Temperature range: $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$ ($-104^{\circ}\text{F} \sim 158^{\circ}\text{F}$)
- Relative humidity: 10%~100%
- Atmosphere pressure range: 80kPa~106kPa (12.47psi~15.37psi)

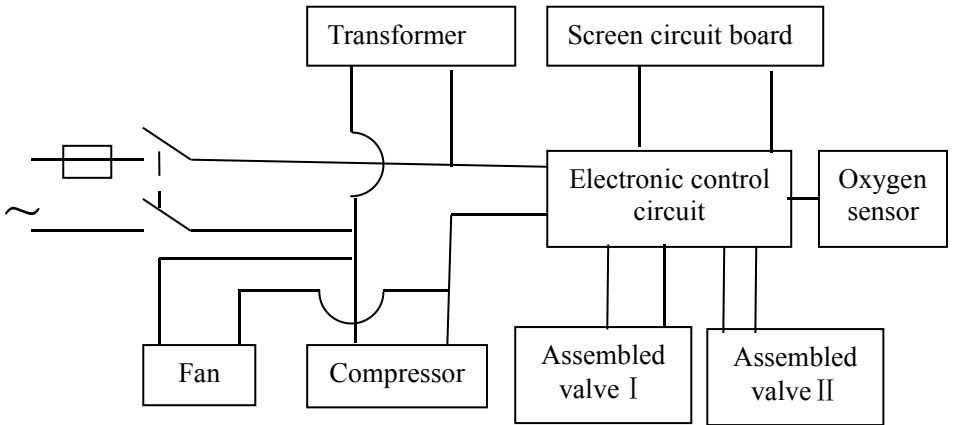
The concentrators must be stored in aeration without erode gas, avoided shaking and inversion in transport.

II . GAS PASS OPERATION SKETCH MAP



OTHER ATTENTION ITEMS

III. ELECTRICAL RATIONALE

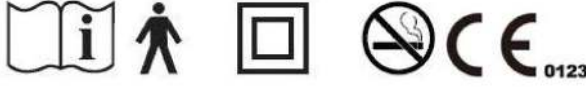


IV. ACCESSORIES LIST

- | | |
|--------------------------------|-------------------------|
| 1. Nasal oxygen cannula: 1 set | 2. Filter core: 1 set |
| 3. Fuse tube: each 2 pieces | 4. User manual: 1 piece |

All specifications and product configurations are subject to change without notification.

CE NO. G2 18 01 96468 004



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No:32/A Osmangazi / BURSA

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Karagül İş Merkezi No: 84/2B25 Fatih / İSTANBUL

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