

## Quick User Guide

- Step 1 Take out the humidifier bottle, fill in with distilled water [Note not to exceed the maximum line or lower than the minimum line.].



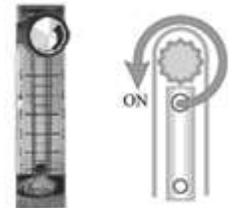
- Step 2 Put the humidifier cup into the concavity on the front casing. Then connect the oxygen tube to the oxygen outlet.



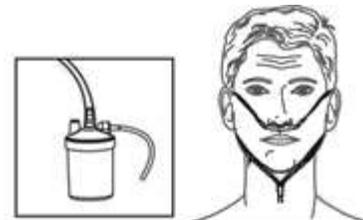
- Step 3 Connect the power plug of the machine to surge protector connected to a power outlet.



- Step 4 Adjust oxygen output flow according to patient needs. [Note: Clockwise - OFF /counterclockwise – ON.



- Step 5 Connect the oxygen tubes to the outlet of the humidifier bottle. Then set the oxygen tube over patient's ears and put the nasalcannula tube into the patient's nostrils to provide therapy. Follow the instructions of the Doctor on the flows to provide each individual patient.



- Step 6 Turn off the switch and disconnect the power supply everytime when oxygen therapy treatment is finished.

Disconnect the power plug

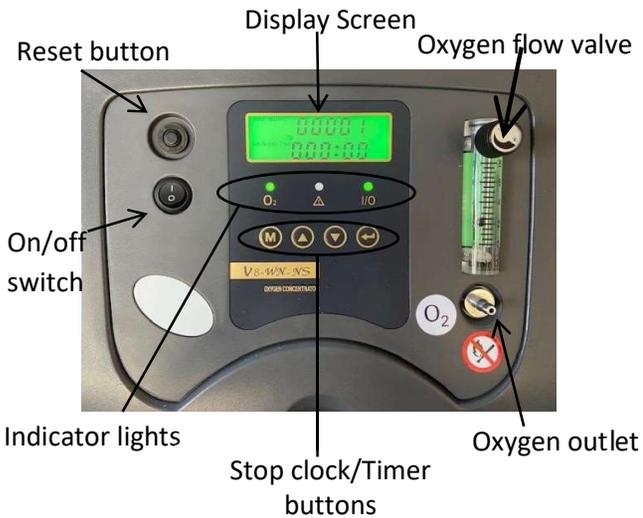


**OXYGEN CONCENTRATOR FRONT VIEW**

**Control Panel**



Humidifier bottle  
Concavity



Reset button  
Display Screen  
Oxygen flow valve  
On/off switch  
Indicator lights  
Stop clock/Timer buttons  
Oxygen outlet

**INDICATOR LIGHTS**

Oxygen purity Green – Optimal Red – Oxygen Purity % is low	Trouble indicator Off - Working good Red - Defective	Power indicator Green – Power on Red – Power off indicator
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**Stop clock/Timer buttons**

**NB: Do not use stop clock/timer buttons**

**Using the concentrator**

- Place the unit 50 cm from the wall (all barriers) near an electrical outlet.
- Ensure that the concentrator is clean and disinfected. Check the course filter at the back of the concentrator.
- Connect oxygen accessories such as a humidifier (**must be filled with distilled water up to level above the minimum mark**), nasal cannula, face mask, and/or extension tubing to the oxygen outlet.



- Insert power cord from the volt guard/ surge protector and plug it into the electrical outlet. Then plud the other end in the wall socket. Ensure that the switch is turned on.



- Locate the ON/OFF switch on the front of the unit, and turn it to the I position (on). The I/O indicator lights green.
- Adjust the flow meter knob to 10 LPM.

- Wait for 30 seconds until the O2 purity indicator lights green and measure the oxygen concentration using the oxygen analyzer provided. If less than 85% call biomed. If greater adjust the flow meter according to patient needs.



**Setting flow rate:**

Turn the flow control valve:  
Counter-clockwise: on  
Clockwise: off

- Refill humidifier if water level drops below minimum.
- Monitor oxygen concentration using the oxygen analyzer provided once a day and record % in the report shared.
- At end of treatment, record hours of use and switch off device. Pour distilled water and clean concentrator.

### User maintenance

**Replace distilled water in the humidifier bottle daily and after every patient. Clean the humidifier with soap and water**



1. Wash the intake air filter weekly using mild detergent and water.
2. Wipe the concentrator using a moist soft cloth at the start of each day.
3. Let the concentrator run for half an hour every week if not in use.

### COVID 19 CLEANING REQUIREMENTS

In case of spillage, in case of completion of treatment of a Covid 19 patient.

### Twinning SOPs [used for O<sub>2</sub> flows >10LPM]

#### How to twin? When? What flows can be attained?

Twinning - process of joining the output of 2 oxygen concentrators using a Y connector to provide oxygen therapy to a single patient. [ for flows requirements above the limit of the concentrator i.e. above 10 LPM]

#### **STEPS of twinning**

1. Roll 2 concentrators close as indicated in the image below.
2. Connect tubes to the oxygen outlets. Then connect the rare ends of the tubes to the humidifier bottles filled with DI water.
3. Connect 2 silicon tubes to the Y connector provided and the other end to the humidifier outlet.
4. Connect the 3<sup>rd</sup> Y connector outlet to the nasal cannula/non re-breathable face mask's tubing.
5. Adjust oxygen output flow according to patient needs. Both concentrators Must be set to the same flowmeter reading. [i.e. 8LPM to provide a total of 16 LPM to the patient]
6. Connect the cannula or mask to the patient's nostrils to receive oxygen therapy.

#### **Y TUBE CONNECTOR FOR TWINNING**



#### **Precautions about Twinning**

We can only guarantee 18LPM maximum after twinning with the model provided. Use the oxygen analyzer provided to determine the flows.

Both concentrators must be adjusted and set at the same flow meter reading to provide the same flow at a particle time i.e. both providing 8 LPM to provide 16 LPM to the patient

#### **Alarms and troubleshooting;**

##### **Power off visual and audio alarm:**

The I/O light is red - Concentrator connected with power but the unit is in a state of power off with alarm sound. Verify power has been lost at the outlet.

Check the power cord for good connection or that the external power supply has been turned on.

Place the patient on another oxygen concentrator or oxygen cylinder.

##### **Oxygen purity alarm sound an:**

Alarm will sound in addition to red indicator light if oxygen concentration purity % is low. Call the biomedical technician.



If the indicator lights red, call a biomedical personnel immediately. For any other alarms call the biomedical personnel.