

5-LITER AND 10-LITER CONCENTRATOR UNIT DETAILS

OXYGEN CONCENTRATOR (Normal air is 21% Oxygen, 78% Nitrogen & 1% other gases.) An oxygen concentrator filters the air, collects the oxygen, releases the nitrogen and provides a continuous flow of oxygen from the machine through a process called Pressure Swing Absorption. **Concentrators are available in 5-10 liter capacity to suit the required liter flow.**

OXYGEN THERAPY:

- A flow rate/liter per minute (LPM) is prescribed by your physician; always use the prescribed setting to set your machine
- A dispensing device is ordered by your physician; mask, cannula or other device should be placed on nose/face & adjusted for comfort
- A humidifier attachment can be used with some devices to combat nasal dryness & is ordered by the physician
- Extension tubing connects your dispensing device to the humidifier or directly to the unit
- Position the unit in a well-ventilated area away from walls/drapes

WARNING: No open flames, smoking, aerosols, alcohol-based products, spark/heat sources or oil/petrolatum based lubricants in the presence of oxygen



Reset Button

UNIT OPERATION:

- Plug into grounded outlet
- Do not use extension cords or outlets controlled by a wall switch
- Press "1" to turn the unit **ON**
- **In the event of a alarm; Press the "0" to turn unit OFF then press white reset button and turn unit back ON**



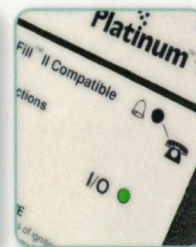
OXYGEN FLOW PORT:

- Outlet for oxygen flow from your machine
- Attach the extension tubing from your face device or the connection tubing from your humidifier to this port
- All connections must be secure & tubing free of kinks for the unit to operate properly
- **Replace your dispensing device (cannula/mask) weekly & your extension tubing monthly; or sooner if damaged or soiled**



LITER FLOW METER:

- Controls the oxygen dose that is dispensed from the unit
- Flow range is dictated by unit size; 5L concentrator=1-5 LPM, 10 L concentrator=1-10 LPM
- Set to prescribed flow rate by turning knob counter clockwise until the center ball rests on the line of desired # liters per minute
- Low flow alarm will sound if set below 0.5 LPM or if flow hampered by connection/obstruction issues



INDICATOR LIGHTS:

The concentrator is equipped with alarms in case of a power outage or an equipment malfunction. There are three lights near the on/off button, green, amber and red.

- **Green** -shows the concentrator is operating properly.
- **Amber** -is for reduced efficiency, the concentrator can be used but TSI needs informed
- **Red** -is a malfunction light, use backup oxygen and call TSI immediately

CONCENTRATOR MAINTENANCE:

- **Clean filter(s) at unit back/side weekly** or sooner if pets in the house or dusty conditions
- Remove, wash with mild soap/water, rinse, dry with paper towel then reinsert
- Do not run the unit without filters more than a few minutes
- Wipe the unit clean with a damp cloth weekly



HUMIDIFIER PRECAUTIONS:

- Fill with **DISTILLED WATER** only
- **AVOID** filling past the maximum fill line to prevent water from getting into the tubing
- Screw bottle lid on carefully to prevent cross-threading which renders the concentrator unit inoperable
- Refill humidifier bottle when water level reaches the minimum line
- **Wash the bottle & lid weekly** with mild soap/water, rinse, dry, refill & reattach
- Routine bottle hygiene is important to prevent bacterial growth/infection



5-LITER AND 10-LITER CONCENTRATOR TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
<ul style="list-style-type: none"> No oxygen seems to be flowing from your system/concentrator 	<ul style="list-style-type: none"> Tubing has a kink or is obstructed Cannula, humidifier bottle or green oxygen adapter is not connected tightly Humidifier lid is not threaded on correctly Illness may impair awareness of oxygen flow 	<ul style="list-style-type: none"> Place the end of your cannula in a glass of water and look for a steady flow of bubbles. If you do not see any bubbles coming from the cannula, check the full length of your tubing to ensure there are no kinks or obstructions. Make sure all connections are secure. If using a humidifier, take off humidifier and make sure bottle lid is threaded on correctly and is not cross threaded. Reassure the user there is oxygen flow.
<ul style="list-style-type: none"> Concentrator is not operating, alarm audible/power failure 	<ul style="list-style-type: none"> Plug not secured in outlet No power at wall outlet Concentrator circuit breaker has been tripped Electrical power outage 	<ul style="list-style-type: none"> Check plug at wall outlet. Check the power source (home fuse or circuit breaker). Check to see if the outlet is controlled by a wall switch that has been switched off. Try a different outlet in another room. Turn the power switch of the concentrator off. Push in the reset button and turn the power switch back on. If the circuit breaker trips again, move the machine to another room, reset and start again. <p><i>Use backup oxygen system until the power can be restored. You may need to go somewhere that power is available.*</i></p>
<ul style="list-style-type: none"> Unable to control prescribed flow rate 	<ul style="list-style-type: none"> Obstruction of cannula Obstruction of tubing Obstructed humidification bottle 	<ul style="list-style-type: none"> Disconnect cannula from tubing. If the proper flow rate is restored or the indicator ball jumps to the top of the flow meter, replace with a new cannula. Disconnect tubing from oxygen outlet barb or humidifier bottle. If the proper flow rate is restored or indicator ball jumps to the top of flow meter, check all tubing for kinks or knots and replace if needed. Disconnect the humidifier from the concentrator. If the proper flow rate is restored or indicator ball jumps to top of flow meter, replace with a new humidifier bottle. If unavailable, attach cannula directly to concentrator and call Therapy Support for a replacement humidifier.

*** In any situation where the concentrator alarms or problems occur, use your provided oxygen backup system while determining a solution.**



Advantage: *eclipse.*

It leaves all
other oxygen
systems in the dark.



 **SeQUAL**
The Smart Choice.



Advantage: Eclipse.

The small, lightweight, low-maintenance system that provides continuous flow oxygen therapy consistent with accepted standards of care.

Eclipse™ is the one unit that does it all. Including moving your operating costs



Advantage: Eclipse.

The internal auto-recharge power cartridge enables easy movement between AC power outlets without interruption of oxygen therapy. Long lengths of tangled oxygen tubing are no longer needed to move about the house.



Advantage: Eclipse.

The Eclipse means extended travel without the fear of running out of oxygen. Just plug the Eclipse into your auto accessory (lighter) outlet and go as far and as long as you like.

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osts to the bright side.



Advantage: Eclipse.

In between an AC or DC power outlet?
Not a problem! The internal auto-recharge power cartridge keeps the oxygen flowing for up to 4.4 hours.

The Bright Side for Patients and Providers

For Patients . . .

Peace of mind

- Never run out of oxygen at home or in the car
- No concerns about storing oxygen in the home
- Self-monitoring alarm system
- Lower electric bills

Mobility

- Small, lightweight, easily moved about, lifted up stairs or into an automobile
- Telescoping handle cart facilitates movement in or outside the home
- AC, DC and on-board auto recharge power cartridge enables longer excursion times; even extended overnight travel

Ease, Convenience, Quality of Life

- No more waiting for oxygen deliveries
- Simple easy-to-use controls; no need to learn how to operate several devices
- Accurate, easy-to-read flow indicator
- Quiet operation without purge noise or pulse mode clicking
- Hi-tech, easy-to-clean non-medical look
- Compact and unobtrusive; no need to rearrange the room around it

For Providers . . .

Lower Operating Costs

- Cuts oxygen deliveries
- Longer service intervals
- Lower maintenance costs
- Patient pick-up or easy delivery in any vehicle
- Simplified inventory management
- Easy-to-use controls reduce service calls
- Sleek, rugged cabinet and control panel is easily cleaned

Marketing Opportunities

- Increased patient satisfaction for more physician referrals
- Non-medical appearance offers the opportunity for improved patient compliance
- State-of-the-art equipment to differentiate service
- Lower noise, heat and power consumption mean fewer costly customer service calls
- No need to train patients on multiple devices
- Easy-to-use controls reduce patient support callbacks



Why does this system *eclipse* all others?

A big, cumbersome, power hungry, 50-pound, continuous-flow stationary concentrator? Or a pulse portable concentrator that produces just over 1/2 LPM oxygen?

It's a decision you don't have to make. Now there's a concentrator that eclipses both and is exactly what the industry has always wanted – and needed: a single, do-it-all oxygen system.

About the size of a grocery bag, Eclipse can do it all:

- Up to 3 LPM continuous flow oxygen for nocturnal use, exercise, and other times when pulse flow just won't do
- For times when pulse flow is the choice, the Eclipse has pulse settings from 1 to 6
- Runs on household AC current, DC from an auto accessory (lighter) outlet, or its internal auto-recharge power cartridge
- Rugged good looks; easy to use, easy to clean, easy to service
- Long service intervals for lower life-cycle costs
- A power miser, the low electrical consumption means less heat, noise and longer life
- Lightweight and easy to move, the Eclipse is the perfect home concentrator...and you can take it with you!

For the first time, the amazing Eclipse makes extended travel possible for oxygen patients. And for the first time, providers can build a fleet around a single, tough, small, reliable do-everything concentrator.

That's a huge bright spot in lowering operating costs.

The Eclipse logo features the word "eclipse" in a stylized, italicized, sans-serif font. A thin, curved line arches over the top of the letters, resembling a crescent moon or a lens flare. A small trademark symbol (TM) is located at the end of the word.

Eclipse Oxygen System Specifications*

Size: H x W x D	19.3 x 12.3 x 7.1 inches 49.0 x 31.2 x 18.0 cm
Weight:	
With Power Cartridge	17.9 pounds (8.1 kg)
Without Power Cartridge	14.5 pounds (6.6 kg)
Continuous flow settings	0.5 to 3.0 LPM (0.5 liter increments)
Oxygen concentration	90% ± 3% @ sea level
Oxygen output pressure	5.0 psig (34.5 kPa) nominal
Pulse flow settings	1.0 to 6.0 (0.5 increments)
Trigger sensitivity	Adjustable between -0.25 cm H ₂ O to -0.7 cm H ₂ O
Sound level	48 dB(A) at 3.0 LPM continuous flow 40 dB(A) at 3.0 pulse flow setting
Power specifications:	
AC Operation	100 – 240 VAC, 50 – 60 Hz
DC Operation	12 V nominal
Power Cartridge	195 W-Hrs
Power Consumption	52 watts at 1.0 LPM continuous flow 145 watts at 3.0 LPM continuous flow 44 watts at 1.0 pulse flow setting 95 watts at 6.0 pulse flow setting
Nominal Power Cartridge operating time	2.4 hours at 2.0 LPM continuous flow 1.3 hours at 3.0 LPM continuous flow 3.6 hours at 2.0 pulse flow setting 2.1 hours at 6.0 pulse flow setting
Power Cartridge recharge time	1.4 to 5.0 hours, dependent upon the flow setting, to achieve 80% capacity from a fully discharged Power Cartridge
Back up alarm power	9 Volt battery
Oxygen concentration indicator	Green Light = Normal Operation Yellow Light = Warning or Caution Red Light Flashing = Abnormal Operation
Operating temperature	50° F to 104° F (10° C to 40° C) at 82.4° F (28° C) dew point, non-condensing
Altitude operating range	0 – 13,123 feet (0 – 4000 meters)
Range of breathing frequency	Up to 25 continuous breaths per minute
Bolus Volume (± 15%), unaffected by number of breaths per minute	1.0 setting = 16 ml 2.0 setting = 32 ml 3.0 setting = 48 ml 4.0 setting = 64 ml 5.0 setting = 80 ml 6.0 setting = 96 ml
Transition to continuous flow	Audible alert if no inspiration has been detected after 15 seconds. Switches to continuous flow if no inspiration has been detected for 30 seconds.

Patient Controls

ON/OFF switch
Flow adjustment buttons
Continuous / Pulse Flow button

Alarms

Loss of power
Low Power Cartridge
Low Therapeutic Oxygen Output
Oxygen flow outside normal limits
No inspiration detected in Pulse Flow
Unit Malfunction

Model Selection Guide

Note: The Eclipse Oxygen System consists of Concentrator, Power Cartridge, AC Power Supply, DC Power Supply and Profile Cart with telescoping handle.

Item No: 5500
Eclipse Oxygen System, Model 1000
North American Power Cord, English Manual

Item No: 5501
Eclipse Oxygen System, Model 1000
Hospital Grade Power Cord, English Manual

Item No: 5502
Eclipse Oxygen System, Model 1000
U.K. Power Cord, English Manual

Item No: 5504
Eclipse Oxygen System, Model 1000
Schuko Power Cord, English Manual

Item No: 5520
Eclipse Oxygen System, Model 1000
NEMA Power Cord, French Manual

Item No: 5522
Eclipse Oxygen System, Model 1000
Schuko Power Cord, French Manual

Item No: 5532
Eclipse Oxygen System, Model 1000
Schuko Power Cord, German Manual

Item No: 5542
Eclipse Oxygen System, Model 1000
Schuko Power Cord, Dutch Manual

Item No: 5550
Eclipse Oxygen System, Model 1000
NEMA Power Cord, Spanish Manual

Item No: 5552
Eclipse Oxygen System, Model 1000
Schuko Power Cord, Spanish Manual



The Smart Choice.

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* Specifications subject to change without notice.