

## OPERATING INSTRUCTIONS FOR YOUR LIQUID OXYGEN SYSTEM



### Stationary Unit

The stationary unit is used to refill the portable oxygen units. Both units are designed to store and deliver supplementary breathing oxygen at a rate prescribed by your physician.

The stationary unit must be refilled regularly by your liquid oxygen system representative. How often it must be refilled depends on how much oxygen you use.



### Portable Unit

The portable oxygen unit that is filled from the stationary unit is a small light-weight oxygen supply that may be carried with you.

### \*\*\*\* IMPORTANT SAFETY INSTRUCTIONS \*\*\*\*

#### WARNING

**Oxygen will not burn. However, it does vigorously accelerate burning of any flammable material.**

- Never smoke near the equipment. Keep cigarettes or any other burning tobacco away from the area where the equipment is being operated.
- Always keep the equipment at least 5 feet from any electrical appliances.
- Never store or keep the equipment near heating sources such as furnaces, water heaters, stoves, or open flame.
- Keep all materials that are flammable away from the equipment. This would include oils, grease, facial creams and petroleum jelly, these materials can ignite easily and may burn rapidly in the presence of concentrated oxygen.
- Never lubricate any area of this equipment



#### To prevent high concentrations of oxygen.

- Do not store equipment in a closed-in area such as a car trunk, closet or any other confined area.
- At all times keep equipment upright. If the equipment is turned over gaseous or liquid oxygen will escape, if this occurs ventilate the area. Contact your oxygen system representative as soon as possible.
- Never place portable under clothing. The portable may vent oxygen causing clothing to become saturated with oxygen which could cause them to become flammable.

#### Liquid Oxygen can cause frostbite when in contact with skin.

- Liquid oxygen is extremely cold (-300 F or -184 C), to avoid any frostbite never touch any frosted areas of oxygen tank.

#### Other Precautions

- Never tamper with the equipment—doing so could create a hazardous condition and possibly cause the equipment to malfunction. If you have any questions, remember always to call your liquid oxygen system representative.

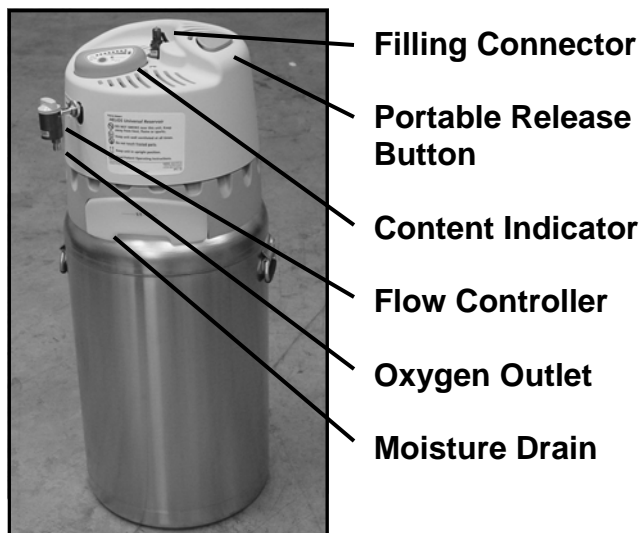
## EQUIPMENT DESCRIPTION

The Companion liquid oxygen system is designed to store and deliver oxygen to the patient at a prescribed rate.

The Companion 1000 portable unit, which is filled from the Companion stationary unit, provides a portable supply of oxygen. For example, when the flow controller is set at 2 liters per minute, the supply will last 7 to 8 hours.

The Companion stationary unit is for use in the home and will be refilled by a liquid oxygen system representative. The frequency of refill is dependent upon the rate of use.

**Contents Indicator-** This indicator is visible through the top of the stationary unit. The indicator is graduated into 4 segments.



## OPERATING INSTRUCTIONS

### WARNING

**Never depress the plastic tip of the filling connector on the stationary unit. Doing so would allow cold gaseous and liquid oxygen to escape.**

The companion stationary unit will be delivered full of liquid oxygen. It will be refilled periodically depending upon the usage rate.

Normally the oxygen tubing is connected directly to the oxygen outlet. The humidifier is used only at high oxygen flow rates or in cases of nasal dryness.

### BREATHING FROM THE COMAPNION STATIONARY:

1. Fill the humidifier with distilled water to the level indicated on the humidifier instructions.
2. Attach the humidifier to the humidifier adaptor. (see Illustration A)
3. Attach the oxygen tube to the humidifier outlet.
4. Adjust the cannula or other breathing device to the face to receive oxygen comfortably.
5. Turn the flow controller to the rate prescribed.  
**NOTE:** No oxygen will flow if dial is between settings.

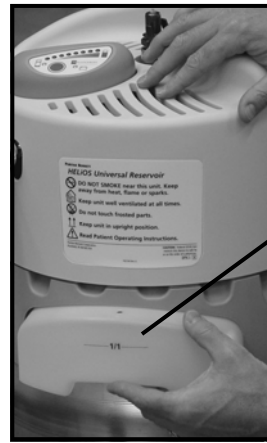
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### OPTIONAL HUMIDITY



(Illustration A)

6. Check the humidifier to insure that there is a steady flow of bubbles. This indicates that oxygen is flowing.
7. The contents indicator will show how much liquid is remaining. It should be checked periodically to insure that the supply is adequate.
8. Moisture will condense on the internal operating parts of the units. A drain is provided to which a moisture collection container can be attached. (see illustration)



(Illustration B)

Collection Container

## FILLING THE COMPANION 1000

### CAUTION

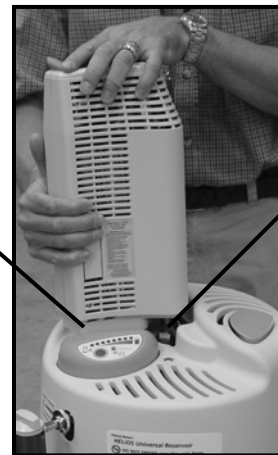
The fill connectors must be clean and dry in order to avoid malfunction due to freezing.

### FILLING THE COMPANION 1000

*The companion 1000 is filled from the stationary as follows:*

1. Check the content indicator to be sure the stationary unit has ample supply of liquid for filling purposes. Wipe down connections on stationary and portable units with a dry, lint free cloth or paper towel to remove any water moisture.
2. Hold the Companion 1000 with both hands and position the contoured case over the blue spout. (see illustration C)
3. Lower the Companion 1000 carefully into place taking care to assure proper engagement of quick connections.
4. Place one hand on top of the Companion 1000 directly over the quick connector and press straight down. This will lower the Companion 1000 approximately 3/8", and assure proper engagement of the fill connectors.
5. While holding the unit in the fill position, move the vent valve lever straight out to the open position. (90° from normal off position.) This will result in a rather loud hissing noise. (Note the time at start of fill.) (see illustration D)
6. After 1 ½ minutes have elapsed since starting the filling process, close the vent valve. (Fill time may vary according to the temperature of the container being filled.)

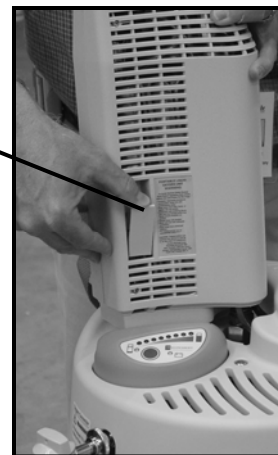
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(Illustration C)

Quick Connectors

Recessed Area



(Illustration D)

Vent Valve Lever

**NOTE:** One hand should maintain slight down pressure on the unit during filling to assure stability and proper filling position. Approximately 30-40 seconds into the filling procedure it is advisable to close and reopen the vent valve one or more times. This will break up any ice that may have begun to form around the valve stem and serve to avoid any problems with the vent valve freezing open.

It is also possible to detect the full condition by a noticeable change in sound of the venting gas, or by the presence of dense white vapor around the cover of the Companion stationary unit.

7. Disengage the portable unit from the stationary unit by holding the carrying strap above the unit and depressing the release button (see illustration). Always hold the Companion 1000 with one hand when attempting to disengage it. Should the units not disengage easily, they may have become frozen. **DO NOT FORCE**. Simply allow a few moments for the frozen parts to warm and disengage when the ice has melted.

### WARNING

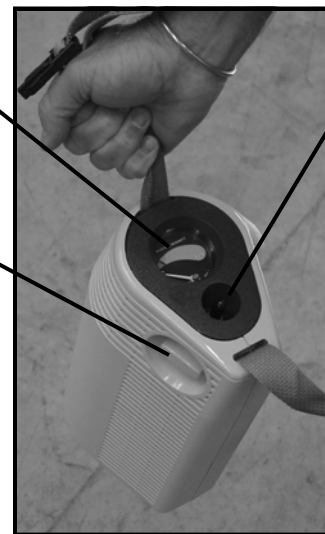
Should liquid oxygen leakage occur when the portable is disengaged, proceed to re-engage and disengage the unit. This will help dislodge any ice or other obstruction. If liquid leakage is still present, engage the unit again and notify your liquid oxygen system representative.

8. Check the liquid oxygen contents indicator (see illustration). The amount of liquid contained in the Companion 1000 is measured by an integral scale which is built into the top of the unit. The scale is actuated by simply lifting the Companion 1000 by the strap nearest the indicator. The liquid contents is indicated on the color-coded gauge.
9. Place the oxygen tube on the "oxygen adaptor" and adjust the cannula or other breathing device to the face to receive oxygen comfortably.
10. Turn the flow controller to the prescribed rate.

**NOTE:** For shorter planned use time, you can partial fill the Companion 1000 by closing the "vent to fill valve" sooner than you normally would. In this way, your portable unit will be even lighter and you will waste less oxygen.



(Illustration E)



(Illustration F)

## CARRYING THE COMPANION 1000

The Companion 1000 may be worn on either side of the body; however, wearing it on the right side will probably be more comfortable. It will also be less obvious to others that the unit is being worn when on the right side. The unit may be worn over the shoulder or in an across the body fashion. An adjustable shoulder strap and pad are provided for maximum comfort.

### CAUTION!

**When cleaning only use a cloth dampened with water to clean the indicator as needed. Never apply cleaning agents or disinfectants to contents indicator. These agents attack the plastic which can lead to leaking or cracking of the indicator.**

### WARNING!

**Never attempt to repair or disassemble this equipment. You can cause the equipment to fail or create a hazardous condition. If you have any questions, problems or are unsure if the equipment is operating properly, call your liquid oxygen representative.**