



### General Information on Conserving Devices

- All the conserver devices that TSI distributes are pneumatically driven and do not require a battery to function.
- The different conservers available to patients are based on warehouse stock. Currently our purchasing dept orders the Invacare Element Conserver. This conserver will replace other models as needed.
- The device senses a breath and delivers an oxygen pulse dose (volume/bolus) in a single lumen cannula during the first part of inhalation which contributes most of our oxygen needs.
- Delivers consistent volume (pulse dose) of oxygen with each breath up to 40 breaths per minute.

### Precautions

- The flow setting is determined by setting the flow control knob to the prescribed flow.
- A conserver requires a physician's prescription. The physician and healthcare provider should ensure that the oxygen conserver provides enough oxygen at rest and during activity. (IE: through pulse oximetry)
- Not intended for use during sleep.
- Should not be used for patients that consistently fail to trigger the equipment.
- Use a standard cannula no longer than 7 ft. Do not use a mask, pediatric or low flow cannula.
- Can only be used on cylinders that are CGA 870 post valve (pin index). IE: ML6 (most commonly used with conserver), D, E sizes. Not compatible with large type cylinders (CGA 540) that have threads on the valve. IE: MM tank.

### Invacare Element Pneumatic Oxygen Conserver

- Pulse dose settings of: 1, 2, 3, 4, 5, 6
- Continuous flow setting at 2 LPM only
- Uses single lumen adult cannula, no longer than 7 ft
- Savings ratio 3.5:1 Weight: 14.8 oz
- Duration chart based on 20 breaths/min.



	Setting	1	2	3	4	5	6	Cont flow at 2 LPM
Cylinder Type	Cylinder Volume Liters	Hours	Hours	Hours	Hours	Hours	Hours	Hours
ML6	171	8.9	4.5	3	2.2	1.8	1.5	1.4
D	425	22.1	11.1	7.4	5.5	4.4	3.7	3.5
E	680	35.4	17.7	11.8	8.9	7.1	5.9	5.7



**Responsive Respond C5 Pneumatic Oxygen Conservor**

- Pulse dose settings of 1, 2, 2.5, 3, 4, 5
- Continuous flow settings of 2, 3, 4
- Uses a single lumen adult cannula, no longer than 7 ft
- Savings ratio 5:1 Weight 14 oz
- Duration chart based on 20 breaths/min.



	Setting	1	2	2.5	3	4	5	Cont flow @ 2 LPM	3 LPM	4 LPM
Cylinder type	Cylinder Volume Liters	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours
ML6	171	13	6.75	5.5	4.5	3.5	2.7	1.4	0.9	.5
D	425	34	17.3	13.7	11.5	8.5	6.9	3.5	2.3	.5
E	680	56	28.5	22.7	18.9	14.5	11.4	5.7	3.5	2.8

**Bonsai OXYPneumatic Oxygen Conservor**

- Pulse dose settings of 1, 2, 3, 4, 5, 6, 7
- Continuous flow settings of 2 LPM (factory set)
- Uses a single lumen adult cannula, no longer than 7 ft
- Savings ratio 6:1 Weight 14 oz
- Duration chart based on 20 breaths/min.



	Setting	1	2	3	4	5	6	7	Cont flow @ 2 LPM
Cylinder Type	Cylinder Volume Liters	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours
ML6	171	11	6.5	4.5	3.7	3.1	2.7	2.5	1.4
D	425	27.2	16.1	11.1	9.1	7.7	6.8	6.1	3.5
E	680	43.6	25.8	17.7	14.5	12.3	10.9	9.8	5.7



**How to use your oxygen conserver**

1. Make sure that the conserver is set to the off position before opening the cylinder valve.
2. Open the cylinder valve slowly at least one full turn so the pressure gauge moves slowly as it indicates the cylinder pressure.
3. Listen for leaks. If a leak is present, close the cylinder, check the seal (washer) for wear. If necessary replace seal and reinstall regulator/conserver to the cylinder. If the leak persists contact Therapy Support at 877-885-4325, DO NOT USE THE EQUIPMENT.
4. Check the oxygen pressure gauge to verify the cylinder pressure.
5. Select the setting on the conserver to your prescribed delivery setting.
6. Place the nasal cannula (no longer than 7 ft.) into position with the prongs in the nostrils and begin breathing.

The conserver will now start to deliver oxygen. The amount of oxygen per pulse is determined by the setting. A sound may be heard each time the unit delivers a pulse of oxygen. Make sure the tubing is not kinked when placed in the carrying bag and bag is secured.

7. When finished using the system, close the oxygen supply cylinder valve and continue breathing through the nasal cannula until no further oxygen is detected.
8. Remove the nasal cannula and turn the selector switch to the off position.

The continuous flow setting is designed for emergency use only. The amount of oxygen delivered when using the oxygen in the continuous mode will depend on the model that you received (see above). Remember that in the continuous mode the oxygen will be consumed at a much faster rate. Return to another source before running out of oxygen.

**Troubleshooting**

Problem	Possible Cause	Solution
No flow. Unit does not pulse	<ol style="list-style-type: none"> <li>1. Cylinder valve is closed.</li> <li>2. Regulator in "Off" position.</li> <li>3. Cylinder empty.</li> <li>4. Oxygen conserving regulator not sensing breath.</li> <li>5. Oxygen cannula is blocked or kinked.</li> <li>6. Using a low flow or pediatric cannula</li> </ol>	<ol style="list-style-type: none"> <li>1. Open the cylinder valve.</li> <li>2. Set to prescribed setting.</li> <li>3. Replace cylinder.</li> <li>4. Check position of cannula in nose. Keep mouth closed.</li> <li>5. Remove kinks. Replace cannula if necessary.</li> <li>6. Change to standard cannula</li> </ol>
Unit flows or pulses continuously.	<ol style="list-style-type: none"> <li>1. Unit is set to the continuous flow (CF) position(s).</li> <li>2. Unit was not set to "Off" prior to opening the cylinder valve.</li> <li>3. Vent hole is obstructed.</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn the selector switch to the appropriate delivery setting.</li> <li>2. Turn the selector switch to the "Off", wait a few moments, then set at proper delivery setting.</li> <li>3. Remove obstructions, such as labels and resume use as usual.</li> </ol>