



## Therapy SOS Unit



### INSPECTION

Remove the Therapy SOS Unit from the packaging and inspect for damage. If there is any damage, DO NOT USE, and contact Therapy Equipment Ltd.

### FUNCTION/INTENDED USE



The product should only be used by Hospital personnel authorised to administer gases/vacuum to a patient.



Read all instructions before using – DO NOT USE the product if you do not understand the instructions given in these User Instructions.

The function of the Therapy SOS Unit is to provide a calibrated supply of gas and vacuum to the patient from a regulated gas supply (either Regulator/Gas Cylinder or Gas Pipeline).

The Therapy SOS Unit is calibrated to operate from an inlet pressure of 60psi (4Bar) +/-5psi.

The unit should be operated and stored in a dry clean environment within the temperature range of -10°C to +40°C.

The unit is not MRI compatible.

## USER INSTRUCTIONS

### *General*

1. Ensure that the unit is in a good condition and free from damage
2. Ensure that the Oxygen Outlet is fitted with a tubing nipple, so that the patient tubing can be connected.
3. Connect the Therapy SOS Unit into the Oxygen Wall Outlet or Regulator Schrader Valve.
4. If there is any sound of gas hissing, examine for leaks. If leaks are found please return to the manufacturer.
5. It is recommended that a Bacteriological/Hydrophobic Disc Filter is fitted between the Therapy SOS unit and the Receiver Jar, to prevent device possible contamination.

### *Injector Suction Unit*

1. Ensure that the unit is in a good condition and free from damage
2. Connect Emergency Suction Unit to Receiver Jar by pushing one end of a length of Suction Tubing over Tubing outlet on Suction Unit and the other over the vacuum inlet on the Receiver Jar Assembly. Ensure that a good fit is achieved on both fittings, and that the tubing cannot come loose. Users should ensure that an in-line Bacteriological Filter is fitted between the Emergency Injector Suction Unit and the Receiver Jar Assembly.
3. Turn the Emergency Injector Suction On by turning the Yellow Suction Control Knob in an anti-clockwise direction. Occlude the Patient outlet on the Receiver Jar and ensure that the Gauge on the front of the unit registers an overall level of Suction of  $-500\text{mmHG}$  or more.
4. The levels of suction being applied by the Injector Suction Unit can be adjusted by turning the Suction Knob clockwise (decreasing vacuum) or anti-clockwise (increasing vacuum).

**Injector Suction Units should not be used for continuous drainage. It is however recommended that the unit be tested for function (see Preventative Maintenance) before every use**

**The Therapy SOS Unit should only be used by persons who have received adequate instructions in its use**

### *Oxygen Dial Flowmeter*

1. Ensure that the Dial Flowmeter is fitted with a tubing nipple, so that the patient tubing can be connected.
2. Ensure the Therapy SOS Unit is connected to the gas supply. If there is any sound of gas hissing, examine for leaks. If leaks are found please return to the manufacturer.
3. Turn the Control Knob in the direction indicated only, and confirm that there is gas flow coming from the tubing nipple
4. Push the Patient Tubing over the Tubing Nipple outlet, and adjust the Direct Dial Flowmeter setting to the requisite flow. Do not attempt to set the Direct Dial Flowmeter between defined settings as this will result in either flow inaccuracies or no flow at all.

**It is the responsibility of the end user to ensure that the correct unit and flow is selected to suit the patient concerned. Therapy Equipment cannot be held liable to any incorrect selections.**

**CARE: The unit may become damaged and provide inaccurate flows, if the end-user attempts to force the unit directly from OFF to 15LPM. The flowrates should only be increased by turning the Control Knob in the indicated direction only.**

## ACCURACY

In accordance with ISO 15002:2008:

0-15 Litres Per Minute (LPM) Dial Flowmeters are supplied to an accuracy of +/- 10% of the indicated value or 0.5-LPM whichever is the greater.

## CLEANING INSTRUCTIONS

Wipe over the outside of the unit and the gas supply hose with an alcohol or disinfecting wipe. If you suspect that the unit is contaminated, remove it from use and refer the device to the appropriate department. We do not recommend the use of Detergent Based Hard Surface Wipes.

## USE OF ANIMAL TISSUES/PHTHALATES/ANTIMICROBIAL PROPERTY

The Patient Trolley Suction Range has not been manufactured using any Animal Tissue or Phthalates. Hose Assemblies do have an Anti-Microbial Biocidal Property – full details are available on request.

## WARNINGS



**DO NOT** use near sources of ignition. Always follow recommended procedures, including the guidance given in HSE document 'Take Care with Oxygen'



**DO NOT** use Oils, greases, or any combustible materials on or near this Direct Dial Flowmeter



**DO NOT** smoke in an area where Oxygen is being administered



**DO NOT** autoclave, or immerse in liquid



**DO NOT** attempt to use if the collection canister is full



**DO NOT** allow the Hose Assembly to rest or be scraped across the floor



**DO NOT** use if the Emergency Injector Suction Controller becomes internally contaminated.



**ENSURE** all connections are tight and leak free

## TROUBLESHOOTING

<u>RISK</u>	<u>RISK ANALYSIS</u>	<u>ACTION</u>
Loose Connection/Leaking	Gas escape causing Oxygen environment, and incorrect flowrate from the Dial Flowmeter	<ul style="list-style-type: none"><li>◆ Ensure that all connections to the Therapy SOS Unit are tight</li><li>◆ Refer to manufacturer</li></ul>

Incorrect Scale/Flowrate	Incorrect dosage of Oxygen being supplied	◆ Refer to manufacturer
Damage to Hose as a result of dragging against floor	Hose may start to leak	<ul style="list-style-type: none"> <li>• Ensure the Hose does not drag on floor</li> <li>• Inspect the Hose regularly to ensure it remains in good condition</li> <li>• Replace Hose if any damage noted</li> </ul>
Setting Flowrate in between calibrated flow	Either incorrect or no flow will be delivered	<ul style="list-style-type: none"> <li>• Ensure end users only select printed calibrated flowrates</li> </ul>
Faulty Gauge	Suction Controller indicating wrong vacuum	<ul style="list-style-type: none"> <li>• Return to Hospital Department responsible for Maintenance and replace gauge</li> </ul>

### TECHNICAL SPECIFICATION

Inlet Gas	-	Oxygen
Outlet Connection	-	6.4mm Male – Tapered
Constitutional Materials	-	Brass, Aluminium and Polycarbonate
Oxygen Usage	-	Up to 15 Litres/min from Oxygen Dial Flowmeter Approximately 40 Litres/min from Injector Suction @ >500mmHG

### REPLACEMENT PARTS DETAILS

A Full range of spares are available (see Catalogue)

### HOSE ASSEMBLY

The Hose Assembly should be included in a regular inspection every 3 months to ensure that it remains safe for operational use i.e. no signs of wear. Particular care should be given to Oxygen Hose Assemblies used on transport devices.

All Hose Assemblies should be replaced, regardless of condition, at least every 4 years. If there is any doubt over the age of the Hose, then the hose must be replaced.

### PREVENTATIVE MAINTENANCE

The unit is supplied with a 7 Year Function warranty, and should be included in an annual service inspection.

Particular care should be exercised to ensure that the internal workings are not exposed to lubricants/grease not recommended by Therapy Equipment Ltd. The Therapy SOS Unit should never be disassembled whilst under pressure.

- ◆ The unit should be wiped with an Alcohol or Disinfecting Wipe to clean
- ◆ A check should be made to ensure the unit is damage and leak free.

It is estimated that the product has a maximum life of 10 years, and should be replaced after this time.



Revision No.	1	2		
Date	5/6/15	26/11/15		
Issue	A	B		