



# Therapy Equipment Ltd

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Cert. No. FM 37970

## PIPELINE SUCTION UNIT

The function of the Pipeline Suction Unit is to provide a variable suction (from a piped vacuum supply), to be used for removing effluent from the patient.

There are three types available:

|                  |   |                                                                               |
|------------------|---|-------------------------------------------------------------------------------|
| High Suction     | - | Vacuum 0 to -625mmHG                                                          |
| Low Suction      | - | Vacuum 0 to -150mmHG (Relief Valve set at -180mmHG)                           |
| Thoracic Suction | - | Vacuum 0 to -40cmH <sub>2</sub> O (Relief Valve set at -45cmH <sub>2</sub> O) |

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

## USER INSTRUCTIONS

1. Unpack the Controller from the packaging
2. Push the Controller into the Vacuum Wall Outlet.
3. Push the Suction Tubing onto the Pipeline Protector at the bottom of the unit.
4. Turn the unit on using the On/Off Tap on the side of the unit.
5. The level of vacuum required can be adjusted using the Control Knob on the top of the unit.
6. To pre-set the vacuum level before use, occlude the Suction Tubing between the Controller and the Receiver Jar. Turn the Control Knob until the required level of suction reads on the gauge at the front of the unit. The Suction Unit should be turned off however will apply, vacuum level set the next time the unit is switched on.

## TECHNICAL SPECIFICATION

The range of Pipeline Suction Equipment manufactured by Therapy Equipment Ltd fully conforms to ISO 10079-3.

|                          |   |                                                                    |                         |
|--------------------------|---|--------------------------------------------------------------------|-------------------------|
| Inlet Connection         | - | Direct British Standard Vacuum Probe<br>Or 9/16 UNS Male Connector |                         |
| Outlet Connection        | - | 6.4mm Male – Tapered                                               |                         |
| Constitutional Materials | - | External Components                                                | - Polycarbonate         |
|                          |   | Internal Metal Components                                          | - Brass/Stainless Steel |
|                          |   | On/Off Tap                                                         | - Polysulphone          |

## RISK ANALYSIS

| <u>RISK</u>                                             | <u>RISK ANALYSIS</u>                                                                                                                                            | <u>ACTION</u>                                                                                                                                                                                              |
|---------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Faulty Gauge                                            | Suction Controller indicating wrong vacuum                                                                                                                      | <ul style="list-style-type: none"> <li>• Ensure that the unit is regularly checked</li> <li>• Replace gauge</li> </ul>                                                                                     |
| Incorrect Labelling (Low/Thoracic labelled High)        | Too high vacuum maybe applied to the patient                                                                                                                    | <ul style="list-style-type: none"> <li>• Ensure that the controller only operates within the vacuum limits applicable to the type</li> </ul>                                                               |
| Relief Valve on Thoracic or Low Suction Malfunctions    | Too high vacuum maybe applied to the patient                                                                                                                    | <ul style="list-style-type: none"> <li>• Adjust the controller up to the full, and ensure that the relief valve is functional, before connecting to the patient.</li> </ul>                                |
| Pipeline Protector malfunction or has been contaminated | Suction Controller will not function or if Pipeline Protector becomes contaminated will cease to function                                                       | <ul style="list-style-type: none"> <li>• Ensure adequate safeguard against contamination of Controller</li> <li>• Re-check that Pipeline Protector is functional if contamination has occurred.</li> </ul> |
| Breakage of On/Off Tap                                  | <p>If Tap is in Off Position the Controller will not function</p> <p>If Tap is in On Position the Controller can be turned off by means of the Control Knob</p> | <ul style="list-style-type: none"> <li>• Visual Inspection to ensure that the Suction Controller is not damaged</li> </ul>                                                                                 |

## PREVENTATIVE MAINTENANCE

Whilst the Suction Controllers are supplied with a Lifetime Warranty (Approximately 7 years), the unit should be included in a regular service inspection.

- The unit should be wiped with a 5% Alcohol Solution to clean.
- A check for leakage as follows:
  1. Turn Suction Controller on and adjust vacuum to maximum
  2. Occlude Pipeline Protector outlet and adjust Vacuum to zero
  3. The gauge should not drop showing the unit is leak tight (Low Controllers will drop slightly)
- A check for function as follows:
  1. Turn Suction Controller on and adjust vacuum to maximum
  2. Occlude Pipeline Protector outlet and ensure that full vacuum is registered within 4 seconds.
- The Pipeline Protector (Part No. 4900) should be changed. The frequency of the change depends on hospital policy however we recommend every 3 months in a high usage area e.g. Theatre and 6 months in a low usage area e.g. Wards.

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