

## DISPOSABLE BI-LEVEL CIRCUIT (PRODUCT CODE 21953)

### CAUTION

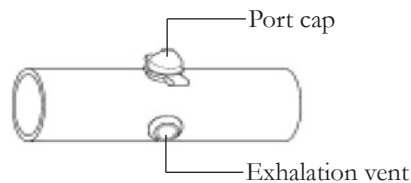
- Federal law restricts this device to sale by or on the order of a physician.
- Refer to your bi-level ventilator or CPAP device manual regarding compatibility with this product.

The Disposable Bi-Level Circuit includes:

- 72" Disposable air tubing with 22mm connector



- Inline exhalation port connector



- 96" Pressure monitoring tube with male luer lock fitting



- 30" Dual pressure monitoring extension tubing and tee assembly



### USE WITH VENTED MASKS

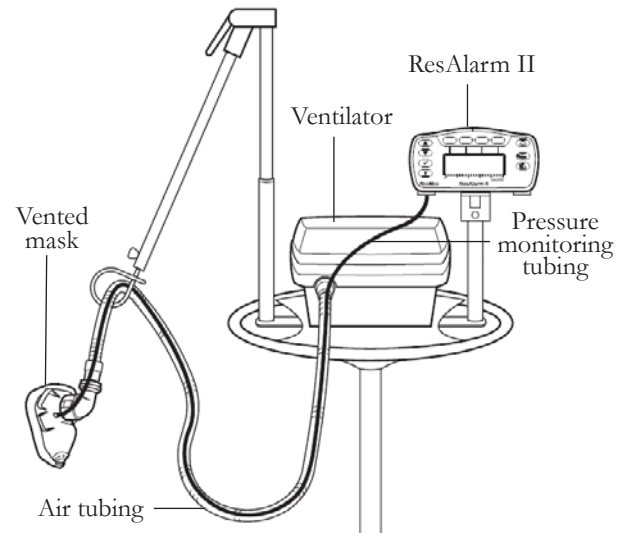
#### CAUTION

**Do not use the inline exhalation port connector on vented masks, as this will create an excessive leak that may interfere with the proper functioning of the bi-level or CPAP device.**

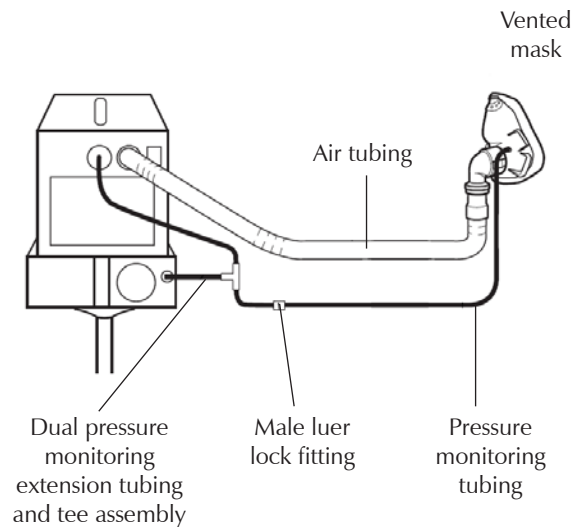
- 1 Attach the disposable air tubing to the outlet port of the bi-level or CPAP device. Attach the other end of air tubing to the vented mask.
- 2 Attach the pressure monitoring tube with male luer lock fitting to the back of RESALARM II or to a suitable pressure monitoring connector for the device used (see figure 1).

**Note:** For bi-level systems that require dual pressure monitoring attachments (ie, bi-level plus external monitor), you will need to use the dual pressure monitoring extension tubing and tee assembly (see figure 2).

- 3 Attach the other end of the pressure monitoring tube to one of the mask ports.



**Figure 1:** Circuit assembly with VPAP ventilator and vented mask.

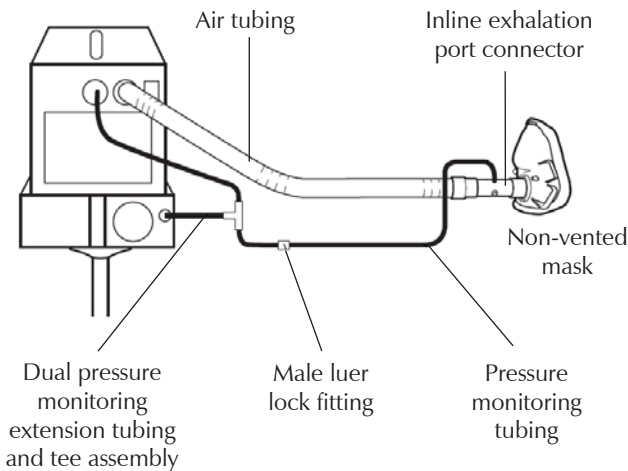


**Figure 2:** Circuit assembly using dual pressure monitor attachments and vented mask.

## USE WITH NON-VENTED MASKS

### WARNINGS

- Failure to use a properly vented mask or install an inline exhalation port when using a non-vented mask may cause serious patient injury or suffocation.
  - Do not plug or block the exhalation vent hole in the inline exhalation port connector.
  - When using a full face non-vented mask, a non-rebreathing valve should be used.
- 1 Attach the disposable air tubing to the outlet port of the bi-level or CPAP device. Attach the other end of air tubing to the mask using the inline exhalation port connector.
  - 2 Attach the pressure monitoring tube with luer lock fitting to the back of RESALARM II or to a suitable pressure monitoring connector for the device used.  
For bi-level systems that require dual pressure monitoring attachments (ie, bi-level device plus external monitor), you will need to use the dual pressure monitoring extension tubing and tee assembly (see figure 3).
  - 3 Attach the other end of the pressure monitoring tube to the monitoring port on the inline exhalation port connector.



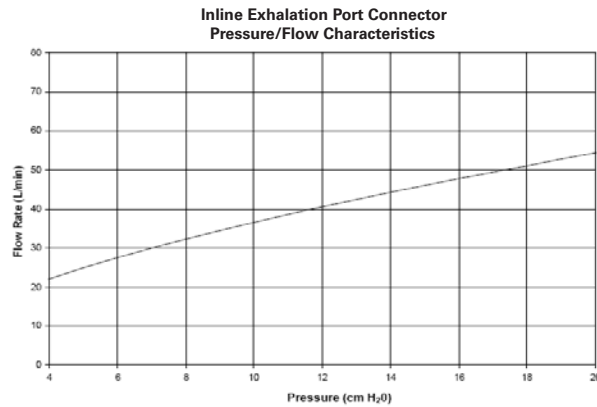
**Figure 3:** Circuit assembly using dual pressure monitoring attachments and non-vented mask

### CAUTIONS

- For single patient use only.
- Do not soak, rinse, wash, gas or steam sterilize this product. To do so may result in harmful residual gases or dangerously increase breathing resistance.
- Store in a cool, dry place.

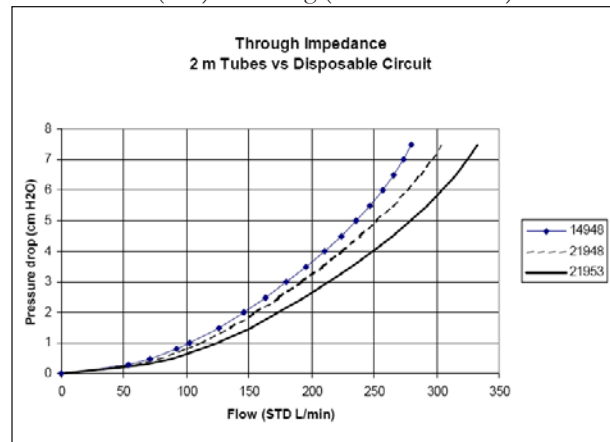
## PRESSURE/FLOW CURVE

The following graph shows the rate of air flow through the inline exhalation port connector at varying mask pressures.



## THROUGH IMPEDANCE CURVE

The following graph shows the through impedance for the Disposable Bi-level Circuit (21953) compared to the standard 6'6" (2 m) air tubing (14948 and 21948).



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