pNeuton

Pneumatic Transport Ventilation

pNeuton model A Oxygen Utilization

There are several factors that effect the length of time the pNeuton ventilator will operate from a tank of oxygen. The ventilator uses very little gas for it's own operation (less than 4 L/min) and is not a major factor in oxygen tank consumption. The major factors are:

- Volume of oxygen in the tank
- Patient's tidal volume and rate
- Position of the % Oxygen control
- If the PEEP / CPAP system is on or off

Setting the % Oxygen control to 65% will decrease the amount of oxygen used from the tank, nearly doubling the time an oxygen tank lasts.

Example of expected operating time
using a full "E" size cylinder (660 liters)
PEEP/CPAP off

Minute Volume	100% Oxygen	65% Oxygen
5 l/m	77 min	80 min
10 l/m	40 min	76 min
15 l/m	33 min	60 min

The PEEP / CPAP system, when turned on, uses approximately 5 L/min oxygen from the tank to provide the 10 L/min baseline flow of the system. The patient's own spontaneous tidal volume and rate will use additional oxygen from the tank, based upon the tidal volume of those breaths.

NOTE: If the patient is not breathing spontaneously, but the use of PEEP is desired, an external PEEP valve can be used instead of the ventilator's internal system. This will result in a decrease in oxygen consumption of 6 to 11 L/min.

Example of expected operating time
using a full "E" size cylinder (660 liters)
PEEP/CPAP on

Minute Volume	100% Oxygen	65% Oxygen
5 l/m	29 min	37 min
10 l/m	26 min	33 min
15 l/m	23 min	30 min

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