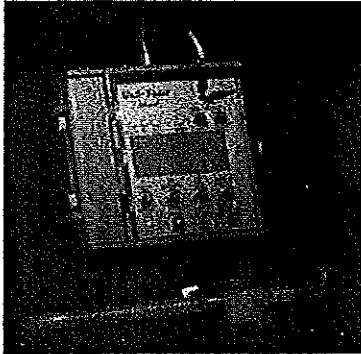




Use of SNS Ventilators in the Pediatric Patient



UNI-VENT™ Eagle™ Ventilation System "Quick Set-Up"

- Mode** ▶ SIMV, Assist Control (A/C), CPAP
- Volume** ▶ 10 ml/kg (displayed on LCD above control)
- Breath rate** ▶ Set age appropriate (dial is sensitive, 1-150 bpm)

- Inspiratory Time** ▶ (0.7-1.0 Combination of Inspiratory time and I:E ratio is displayed on LCD (I:E ratio default 1:1 preset)
- FIO₂** ▶ Dial desired FIO₂ (21% to 100%) value displayed on LCD
- PEEP** ▶ Pushbutton switch: each push = 1 cwp
- Alarms** ▶ Set based on average Peak Inspiratory Pressure
- Low Alarm Limit** ▶ 5 cwp below spontaneous Peak Inspiratory Pressure
- High Alarm Limit** ▶ 10 cwp above Mechanical Breaths Peak Inspiratory Pressure
- Battery Life** ▶ 3 hours maximum using internal compressor; 12 hours using external gas source

Concepts of Rapid or Volume Based Pediatric Ventilation

- If volume ventilating, start at 10 ml/kg (unless protective lung strategy ventilation required)
- Volume lost to circuit must be replaced unless measurements taken at "wye"
- Set I-time generally between 0.7 – 1.0 sec.

NORMAL RESPIRATORY RATES

- Infant 30-60
- Toddler 24-40
- Preschooler 22-34
- School-age child 18-30
- Adolescent 12-16

ASSESSMENT

- Chest rise
- Breath sounds
- Respiratory Rate
- Work of Breathing
- Pressures required to deliver volume
- ABG/TCM/SaO₂