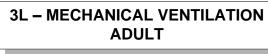




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ЕМТ

EMT-INTERMEDIATE 85

ADVANCED EMT

PARAMEDIC

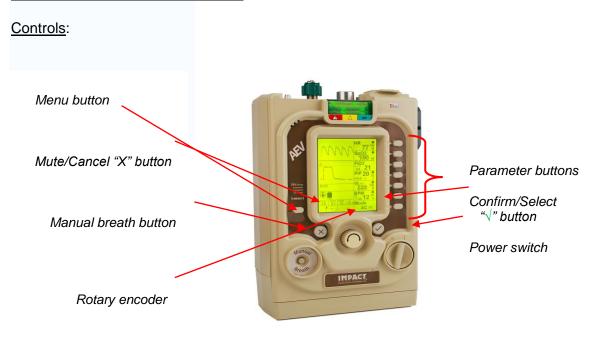
Indications:

- 1. Respiratory/Cardiac Arrest.
- 2. Any Medical Etiology of Dyspnea or Airway Management Intubation.
- 3. Any Trauma Etiology of Dyspnea or Airway Management Intubation (except suspected pneumothorax).

Contraindications:

- 1. Pediatric dyspnea.
- 2. Adult dyspnea of lesser severity able to be managed without mechanical ventilation.
- 3. Active or suspected impending emesis.
- 4. Suspected or impending pneumothorax/tension pneumothorax.

Technique (Zoll Model 731 Series):

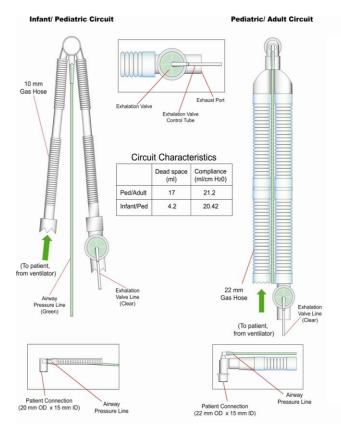






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Circuits:



- 731 ventilator circuits feature a low dead space design that minimizes CO2 re-breathing.
- Note: dead space (circuit and HME) should never be greater than <u>25%</u> of the patient's tidal volume (set or spontaneous.
- 3. The 2 standard ventilator circuits cover the range of patient from infant through adult.
 - Pediatric/adult patients 20 kg through adult, minimum tidal volume 200 mL;
 - Infant/pediatric 5 though 30 kg, maximum tidal volume 300 mL.***DO NOT USE FOR MECH VENT

Connections- check the ventilator for proper operation before connecting to patient:

<u>Step 1</u>: Connect ventilator circuit (use test lung whenever possible) oxygen hose to 55 psi regulated output.



Clear hose to exhalation valve

Patient circuit corrugated tubing to gas



Turn power



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PROTOCOL 3L: Mechanical Ventilation - Adult, cont.

Step 2: Power:



Step 3: Changing a Primary Parameter:

 Press select "√" to accept new value



- Unit performs a Self-Check and AUTO-CAL of the internal transducers.
- 731 then begins operation using the default settings.
- AUTO-CAL is performed every 5 minutes thereafter or when an altitude or temperature change is detected.
- Start-up settings may be changed during operation at any time.

switch to "ON" <u>Factory Defaults</u>:

•	FiO2: High PIP Limit: PEEP: Vt: BPM: I:E	21% 35 cm H2O 5 cm H2O 450 ml 12 1:3
•	8	•=
•	Mode:	AC (V)

Custom Setting (Cardiac Arrest):

- FiO2: 100%
- High PIP Limit: 25 cm H2O
- *PEEP:* 0 cm H2O
- Vt: 400-500 ml (keep within since it will be an end result not a setting.)
- BPM: 10
- *I:E* 1:2.5
- *Mode: AC (P)*
- 1. Current value is highlighted.
- 2. Turn rotary encoder to desired value.
 - > Adult
 - > Pediatric
 - > NIPPV
 - Custom (Cardiac Arrest)
 - Last setting

Remember: "Touch, Turn, Confirm"™





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Safety notes:

- A. Initial airway management and ventilation must not be compromised while preparing mechanical ventilation equipment.
- B. If problems arise during 731 use or if there is uncertainty about the adequacy of oxygenation and ventilations with the 731, then STOP and ensure oxygenation and ventilation with the usual methods.
- C. Using the 731 mechanical ventilation device will give the ability to determine early changes in pulmonary compliance, such as may be detected using a bag-ventilation technique.
- D. The incidence of a pneumothorax is increased in the presence of chest trauma with any form of positive pressure ventilation.
- E. Gastric distention can cause resistance to mechanical ventilation. Gastric distention should be suspected in patients with an acutely distended abdomen after non-intubate positive pressure ventilation. Relieve gastric distention impairing respiratory mechanics with either a nasogastric or orogastric tube with low suction until distention is relieved.
- F. Continuous waveform capnography is indicated for mechanical ventilation utilizing the 731. If transporting a patient with a home ventilator that remains on baseline settings the use of continuous waveform capnography is optional.