



Portable Artificial Respiration System (Portable Ventilator)



DESCRIPTION

The correct patient lung ventilation, even in the best condition, is not a simple task. The use of Ambu bag for ventilation has been part of the standard of care in the pre-hospital environment for the past fifty years. At the time of the pre-hospital relief, two medical educators respond to a patient and transfer the patient to the hospital for an average of eleven minutes. A doctor often requires a multiple triage for the damage caused by harmful injuries. Ambu bag completely prevents doctors from performing other vital tasks. In the case of collective injuries, such as those caused by IEDs and RPGs, a doctor cannot ignore other patients with severe and threatening injuries, while ventilating breathing with the Ambu bag. The triage priorities force the doctor to go to other patients. In the exact sense, it's unlikely that an apnea patient receives adequate care in due time. On the other hand, professional studies show that paramedics enter the lung of patients, based on their usual routine and stress-free conditions, in between 22 and 33 breaths instead of 10 to 12 breaths, which adversely affects hemodynamics, especially in patients in shock and traumatic brain injury. This device is designed with a fixed volume and rotational speed with maximum air pressure 38 cmH₂O as a safety action to prevent leaks and trauma.

ADVANTAGES AND BENEFITS OF PORTABLE VENTILATOR

It satisfies the injured need to emergency resuscitation. The current volume and number of respiration are more consistent with manual resuscitator. The compact design of the device makes it more portable. It reduces the need for training. It causes rapid rotation between patients. Disposable products prevent the spread of contamination. Designed with long shelf life and long life time and durability for hard places and long distance. A simple automatic ventilator on a charge works quadruple longer than pneumatic ventilator. This device allows the doctor and the first responder to be trained until the next step, with action air conditioner stay alive. The use of this device is easy and also has a low weight (1/4 kilograms) and it is designed to be used in transportation and pre-hospital environments. This device eliminates the guesswork and reduces the error associated with ventilation with Ambu bag and has more advantages over Ambu bag. First, there is self-assimilation that cannot be achieved with Ambu bag. The second, unlike Ambu bag, allows the doctor to handle other patients. Third, it could carry air conditioning with a full charge of up to 5/5 hours.

Strip Kit For Biological Factors Diagnosis

APPLICATIONS

Diagnosis method is performed based on immunochromatography method by marked specific antibodies with gold particles. The test result can be observed in a 3-10 minutes period with the naked eye and it is stable in environmental temperature for at least 2 years.

This kit has capability of identifying and diagnosing following factors in the form of solution;

- Vibrio Cholerae

