

CAREvent[®] CA

Chemical Agent Resuscitation Environment ventilator

Automatic Ventilation for an Un-Safe World



MEDICAL TECHNOLOGIES INC

"INNOVATION IN RESUSCITATION"

CAREvent[®] CA

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The threat of a **chemical agent release** in a crowded area has presented new challenges over the last few years. This environment is as dangerous as that which may be encountered during **confined space entry** in the industrial setting **in atmospheres that are Immediately Dangerous to Life or Health (IDLH)**. The **CAREvent[®] CA Chemical Agent Resuscitation Environment Ventilator** has been developed to meet these challenges.

The **CAREvent[®] CA** has **“only one external control”**. The chemical agent and IDLH environment is considered to be so hazardous that the less the rescuer has to do (during rescue and transport) to ventilate the patient, the quicker the patient can be resuscitated and the greater the chance for the patient’s survival. All the rescuer has to do is turn on the oxygen/air supply, apply the mask to the patient’s face and secure the airway.

The **CAREvent[®] CA** will provide automatic ventilation to the non-breathing patient at a rate and volume designed to provide adequate oxygenation while reducing the risk of gastric insufflation in accordance with the current Guidelines for resuscitation. The micro-pneumatic circuitry of the **CAREvent[®] CA** requires no batteries or electrical supply to operate.

Should the patient start spontaneous breathing, the **“Demand Breathing”** feature of the **CAREvent[®] CA** allows the patient to breathe at their own rate and volume.

The patient’s inspiratory effort (if adequate) will also cause the **“automatic circuit shut off”** to stop the automatic cycling of the ventilator allowing the patient to breathe at their own rate and volume. If the patient stops breathing again, the automatic cycling will restart with no action required on the part of the rescuer.

A Manual Override Button is provided to allow for the provision of 2 breaths followed by 30 chest compressions during CPR in accordance with the current resuscitation guidelines. In addition it can also be used to supplement spontaneous ventilations if required.

An added feature of the **CAREvent[®] CA** is the **2 L/min “MASK PURGE”, BLEED FLOW**. This reduces the risk of the patient drawing in toxic ambient air into the mask should a leak in the mask-to-face seal occur.

By combining this **“simplicity of operation”** with **technological sophistication**, the **CAREvent[®] CA** provides trained individuals with a safe and effective means of maintaining artificial ventilation during respiratory arrest which may occur during confined space entry or a toxic chemical agent release.

Accessories available for the **CAREvent[®] CA** include the **Head Harness System** which assists in maintaining a mask-to-face seal during extrication and transport and to provide “hands free” operation.

Also available are the Deluxe Transport Ventilator circuit with PEEP port and the Gurney Clip, which allows the device to be attached to the hand rail of the gurney during transport.

WARRANTY: This product has a two year warranty against manufacturers defects.

NOTE: This device is intended for use by persons trained in CPR and in the use of this device.

SPECIFICATIONS

Tidal Volume:	500 ml	Relief Valve Pressure:	60 cm H ₂ O
Breaths per Minute:	10	Operating Temperature:	-18° to +50°C (0°F to +122°F)
I:E Ratio:	1 : 2	Storage Temperature:	-40° to +60°C (-40°F to +140°F)
Automatic Flow Rate:	15 L/min	Input Connection:	9/16” DISS
Mask Purge Bleed Flow:	2 L/min	Patient Connection:	15 / 22 mm
Demand Breathing Flowrate:	Min 120 L/min	Constant Bleed Flow:	2 L/min
Demand Breathing		Patient Valve Dead Space:	8 ml.
Triggering Pressure:	> -6 cm H ₂ O @ 60 L/min	Dimensions (inches):	5.5 x 2.5 x 2.9 (approx)
Minimum Input Pressure:	45 PSI (3.1 Bar)	(millimeters):	140 x 63 x 73 (approx)
Maximum Input Pressure:	70 PSI (4.8 Bar)	Weight:	16 oz / 450 gms (approx)

Ordering information: 01CV3000-CA CAREvent[®] Chemical Agent Resuscitation Environment Ventilator c/w Supply Hose, and Universal Resuscitation Facemask