

Z Vent™

ZOLL®



VENTILATION SIMPLIFIED™

Z Vent® Specifications

Ready for the Streets

Full Patient Range

For patients from infant (> 5 kg BW) through adult

Light, Rugged, All-weather Device

Under 10 pounds (4.4 kg) yet rugged

Smart Help™ Feature

Guides operator through on-screen prompts, when responding to alarms

Intuitive Design

User-friendly, straight-forward interface

Unprecedented Battery Runtime

No additional battery backup needed with a 10-hour battery run-time. Battery recharges to 90% in 2 hours.

AWR Certified

Airworthiness Release certified for use aboard U.S. Air Force and U.S. Army aircraft – both fixed-wing and rotor – during all phases of flight

MRI Conditional*

Specially designed to meet the challenging requirements for patients who require magnetic resonance imaging (MRI)

ZOLL Medical Corporation
Worldwide Headquarters
269 Mill Road
Chelmsford, MA 01824
978-421-9655
800-804-4356

For subsidiary addresses and fax numbers, as well as other global locations, please go to www.zoll.com/contacts.

Clinical Specifications

Operating Modes: AC, SIMV*, CPAP and BL

Breath Target: Volume and pressure

Special Functions: Plateau Pressure*, Manual Breath, Apnea Back Up, Oxygen in Use, Inverse Ratio*

Flow Rate: 0 to 100 LPM @40 H₂O

Breath Rate: 0 to 80 BPM

Tidal Volume: 50 to 2000 ml ATPD +/- 10% of setting

Inspiratory Time: 0.1 to 5.0 seconds

I:E Ratio: 1:99 to 4:1

FiO₂: 21 to 100% +/- 3% of full scale +/- 10% of setting

PEEP: 0 to 30 cm H₂O

Peak Inspiratory Pressure (PIP): 10 to 80 cm H₂O

Trigger Sensitivity: -6.0 cm to -0.5 cm H₂O

Oxygen Input Pressure: 55 psig (-25%; + 20%) (380 kPa)

Safety Specifications

Airway Pressure High Limit: 20 to 100 cm H₂O values

Airway Pressure Low Limit: Off, 3 to 35 cm H₂O

BPM High Alarm Limit: Off, 2 to 99

BPM Low Alarm Limit: 2 to 40

LED Status/Alarm Indicator: Red, yellow, and green LCD/LED adjustable

Environmental

Operating Voltages: 100 to 240 VAC (50/60 Hz and 400 Hz) or 12.5 to 28.0 VDC

Operating Time: Internal battery 10 hours

Temperature Ranges:

Operating: -26° to 55°C (-14 to 131°F) with battery charging, battery discharge and AC power operation

Battery Charging: 0° to 45°C (32° to 113°F)

Long-term Storage: -46° to 71°C (-50.8° to 159°F) Optimal storage conditions

Ambulance:

• DIN-EN 1789

Airworthiness

• RTCA/DO-160G

Altitude Compensation: -2,250 to 25,000 ft. (-685 to 7,620 meters)

Temperature and Humidity

Testing: MIL STD 810F

Ingress Testing: MIL STD 810 F

Shock and Vibration Testing: MIL SRD 810G

Vibration Testing: IEC 60068-2-6, ICE 60068-2-34, IEC 60068-2-36, IEC 60068-2-64

Shock Testing: IEC 60068-2-27

Altitude Testing: MIL STD 810F

EMC Testing: MIL STD 461F

Ingress Protection: IP54 (Dust protected and splash-proof)

General

Size: 8.0" wide x 12.5" high x 4.5" deep (20.3 cm wide x 31.8 cm

Weight: 9.7 lbs (4.4 kg)

*optional



EMS AND HOSPITAL

EASY TO USE – READY WHEN YOU ARE

Z Vent removes the complexity associated with many portable ventilators. Our Smart Help™ technology enables users to quickly resolve an alarm with simple on-screen prompts, a feature only available on ZOLL ventilators, while a Touch, Turn, and Confirm interface makes changing settings quick and easy.

In non-invasive ventilation modes, Z Vent's Apnea Backup feature automatically ventilates patients when spontaneous breathing ceases, while Automatic Leak Compensation adjusts oxygen flow if a mask is ill-fitting.

PORTABLE – GOES ANYWHERE YOU GO

Weighing just 9.7 pounds (4.4 kg), Z Vent is light and easy to carry. Its internal compressor consumes less than half of the oxygen of many transport ventilators.¹ And with a 10-hour battery, Z Vent ensures you can continue to provide care, even during long transports.

RUGGED – BEYOND MILITARY STANDARDS

Designed to surpass high military standards, Z Vent is resistant to dust, dirt, jetting water, and challenging weather elements. It has a temperature range of -13° F to 120° F (-25° to +49° C) and is proven to withstand a drop from over 1 meter, which allows it to operate at conditions that many hospital or home ventilators are not rated to endure.

HIGH-QUALITY VENTILATION IN THE MRI SUITE

Many transport ventilators are not designed for use in the MRI. With Z Vent, you can continue to provide high-quality ventilation from the ICU to the MRI Suite without sacrificing your level of treatment to the patient.

¹ www.ccforum.biomedcentral.com/articles/10.1186/cc4410. Accessed 7 Dec. 2017.





VENTILATION SIMPLIFIED™



EASY TO USE

A STANDARD FOR EMS

Like everything else medics carry, ventilators must stand up to the tough physical demands of the EMS environment. With enhanced durability, Z Vent sets the standard for ruggedness.

Parameter	Z Vent Rating
Operation Temperature Range	-25° to 49° Celsius (-13° to 120° Fahrenheit)
Ingress Protection—Extreme Dust	Surpasses Mil Standard 810F (Test Method 510.4, Procedure 1)
Ingress Protection—Extreme Rain	Surpasses Mil Standard 810F (Test Method 506.4, Procedure 1)
Crash Testing	20g
Drop Testing (with carry case)	26 drops from 120 centimeters (48 inches) on all surfaces.



PORTABLE



DURABLE



Z VENT — VENTILATION SIMPLIFIED™

DESIGNED WITH YOUR BUDGET IN MIND

The economical Z Vent can lower your costs from the use of disposable CPAP sets, even when you provide treatments only a few times per week. Z Vent is a valuable solution that can upgrade your airway management to BL mode for enhanced patient comfort.

ZOLL MEDICAL CORPORATION

An Asahi Kasei Group Company | 269 Mill Road | Chelmsford, MA 01824 | 978-421-9655 | 800-804-4356 | www.zoll.com

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