



## Product Brochure

**INOVYTEC**   
THE POWER TO SAVE LIVES



## ✓ Ultra Portable Turbine Ventilator

The Ventway Sparrow combines high performance, advanced functionality, and a compact design to deliver dependable ventilation in any environment.

Impact-resistant, ultra-portable, and intuitive to operate, it elevates the standard of care in both field and combat medicine.

From the point of injury to medevac, field hospital, and advanced care facilities, the Ventway provides seamless, effective ventilation every step of the way.



### Ultralight

Easy to carry and handle



### Minimal Maintenance

Durable and reliable device that delivers continuous ventilation, and only requires periodic filter replacement



### Night Vision

Optimized for night-vision operation



### Multifunction

High capabilities to match various scenarios



### Energy Flex

Compatible with rechargeable and non-rechargeable batteries



### High Performance

Hospital grade ventilation at various in-hospital scenarios



### MRI Compatible

Up to 3 Tesla



FDA Cleared



CE Approved



Pmda Certified

## Ventway Sparrow - Robust

P/N: VWSP-900

## Ventway Sparrow Robust Ventilator MRI Compatible

P/N: VWSP-900MR

**Dimensions:** 165×167×60 mm | **Weight:** 1.3 kg



### Performance Data

Ventilation Modes*	SIMV-VC-PS, SIMV-PC, AC-VC, AC-PC, CPAP, Bi-Level, HFNC, CPR
Adult & Pediatric	Patient Weight >5 Kg (11 lb)
Respiratory Rate	1 – 60 ± 1 bpm
Peak Inspiratory Pressure (PIP)	0 to 60 cmH <sub>2</sub> O ± 2 cmH <sub>2</sub> O or 10% whichever is greater
Tidal Volume	50-2000 mL ±10% + 4 mL
Inspiratory Pressure Limit	11 to 60 cmH <sub>2</sub> O ± 2 cmH <sub>2</sub> O or 10% whichever is greater
Inspiratory Time	0.3 to 4 ± 10% sec
I:E Ratio	1:4 to 4:1
Peak Flow (PIF)	Mandatory breaths: 130 L/min (-5% to +10%) Spontaneous breaths: 160 L/min ± 10%
Oxygen Mix (FiO <sub>2</sub> )	21%-100% Accuracy of FiO <sub>2</sub> : 30%- 40%, ±15% 40% to < 95%, ±10% 95% to 100%, ±5%
PEEP	0 to 20 cmH <sub>2</sub> O ± 1 cmH <sub>2</sub> O (externally adjusted)
Trigger Sensitivity	-0.25 to -10 cmH <sub>2</sub> O Pressure, Off
Pressure Support Limit	11 to 50 cmH <sub>2</sub> O above PEEP ± 2 cmH <sub>2</sub> O
Pressure Alarm Limit	10 to 55 cmH <sub>2</sub> O above PEEP ± 2 cmH <sub>2</sub> O
FiO <sub>2</sub> Low Pressure Enrichment	21% to 100% (low and high pressure oxygen source)
Altitude	-1200 ft up to 25,000 ft (-370m to 7,620m)

\* Ventilation modes availability is subject to market approval.

### Power Specifications

Rechargeable Battery Pack	Li 3000 mAh @ 0.5C
Non-Rechargeable Battery Pack	Li 3000 mAh
External AC-DC Adaptor	100-240 VAC, 50/60 Hz

## Ventway Sparrow Packaged

P/N: VWSP-9000 | NSN# 6530-31-018-4102

US NSN# 6515-01-708-3463



## Ventway Sparrow MRI Robust Packaged

P/N: VWSP-9000MR

<b>Ventway Sparrow</b> VWSP-900 / 900MR	<b>AC/DC Power Adapter</b> VWSP-940	<b>Rechargeable Battery</b> VWSP-420	<b>Ventway Sparrow IFU</b> VWSP-500
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### Major Standards

IEC 60601-1, IEC 60601-1-2, IEC 60601-1-6, IEC 60601-1-8, IEC 60601-1-12, ISO 80601-2-12, ISO 80601-2-90, ISO 10651-3, EN 794-3, RTCA DO 160G, EN 1789, IP 45 (with oxygen), MIL-STD-810G, MIL-STD-461G, MIL-STD-1275

# ✓ PATIENT CIRCUITS

## Patient Circuit | Adult

P/N: VWSP-1450F/1370

### Dimensions

Nominal Overall Length	180 / 240 cm
Internal Volume	690 / 920 CC
Inspiratory Resistance to Flow	2.7 cmH <sub>2</sub> O @ 60 lpm
Dead Space	31 cc
Circuit Compliance	0.001 L/cmH <sub>2</sub> O
Corrugated Tube Diameter	22 mm
Delivered Tidal Volumes	Tv > 200 cc

## Patient Circuit | Pediatric

P/N: VWSP-1550F/1390



### Dimensions

Nominal Overall Length	180 / 240 cm
Internal Volume	318 / 424 CC
Inspiratory Resistance to Flow	2.1 cmH <sub>2</sub> O @ 30 lpm
Dead Space	29 cc
Circuit Compliance	0.0008 L/cmH <sub>2</sub> O
Corrugated Tube Diameter	15 mm
Delivered Tidal Volumes	50 ml < Tv < 200 cc

# ✓ ENRICHMENT

## Oxygen Mixer

P/N: VWSP-580

### Specifications:

General	114x56x75mm
FiO <sub>2</sub>	21%-100% O <sub>2</sub>
High Pressure	40-87 psi



## Oxygen Enrichment Kit

P/N: VWSP-304



### Dimensions

Folded	550x90x30 mm
Un-folded	1200x50x30 mm
O <sub>2</sub> Tube Length	1800 mm
Maximal O <sub>2</sub> Flow	25 lpm

## DISS-DISS Oxygen Tube (green)

P/N: VWSP-590



### Dimensions:

In Bag	150x150x40 mm
Nominal Length	1850 mm
Inner core	Medical grade PVC Braid reinforced polyester
Outer Cover	Solid-colored PVC
Working Pressure	200 psi max. @ 70°
Minimum Bend Radius	3 inches
Working Temperature	-5°C to 65°C
Color	Green



## DISS-DISS Oxygen Tube (white)

P/N: VWSP-591

## DISS-DIN Oxygen Tube (white)

P/N: VWSP-592

## DISS-AGA Oxygen Tube (white)

P/N: VWSP-593

# ✓ POWER SUPPLY & BATTERIES

## DC Cable - Without Input Terminal

P/N: VWSP-929



\* An adaptor can be provided based on customer's requirements

## AC/DC Power Supply

P/N: VWSP-940



### Dimensions:

Power Adaptor Unit	180x80x50mm
Ventilator Inlet Cable Length	1000mm
Input Voltage	90-264 VAC (Universal)
Input Frequency	47-63 Hz
Input Current	2.5A @ 115 VAC
Operating Temperature	0°C - +40°C
Storage Temperature	-40°C - +80°C
Operating Humidity	10-95%
Available Input Plug	EU, US/JP, AUS/N.Z., ISR



# ✓ POWER SUPPLY & BATTERIES

## Rechargeable Battery

P/N: VWSP-420



### Dimensions:

General	85x75x25mm
Nominal Voltage	14.8V
Charging Voltage	16.8V
Rated Capacity	3000mAh @ 0.5C
Maximum Charge Current	2500mA
Maximum Discharge Current	2500mA MAX
Recharge Time	4 hours
Operating Time (Internal Battery)	4 hours
Operation Temperature	Charge/Discharge 0°C to 50°C / -20°C to 60°C
Long Term Storage	0°C – 40°C
Weight	235g

## Non-Rechargeable Battery

P/N: VWSP-430



### Dimensions:

General	85x75x25mm
Nominal Voltage	12V
Rated Capacity	3000mAh ± 50mAh
Standard Discharge	20mA
Maximum Discharge Current	3000mA
Operating Time	3 hours
Operation Temperature	Discharge 0.2C -20°C to 60°C, 45%RH to 85%RH
Storage Temperature	-10°C to 35°C, 65%RH ± 20%RH
Weight	175.5g

# ✓ FILTER UNITS

## HME Filter

P/N: VWSP-305



### Dimensions:

General	65x65x68 mm
Connector	22F/15M- 22M/15F
Dead Space	35ml
Tidal Volume Range	150~1000 ml
Pressure Drop	0.35kpa @30L / min
Moisture Output	≥34.5 mg/l @Vt 1000 ml
Bacterial Filtration Efficiency	<99.9999
Viral Filtration Efficiency	<99.99

## Bacterial/Viral Filter

P/N: VWSP-306



### Dimensions:

General	65x65x68 mm
Connector	22F-22M
Compressible Volume	65 ml
Pressure Drop at 30 LPM	1 cmH <sub>2</sub> O
Bacterial Filtration Efficiency	99.99+%
Viral Filtration Efficiency	99.99+%

## Filter Pack

P/N: VWSP-810

Internal filters for the ventilator - 5 Pieces



# ✓ CARRYING AND MOUNTING

## Hard Carrying Bag

P/N: VWSP-920\*

Unbreakable yet lightweight, a transport and storage case suited for the harshest environments.



### Dimensions:

Case Weight	2.8 kg
External	475 x 376 x 178mm
Internal	432 x 300 x 163mm
Water & Dust Resistance	IP67

\* Customized based on territory and MOQ

## Military Soft Bag

P/N: VWSP-913 (Non USA)



### Dimensions:

General	175x200x25mm
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Engineered for Military Standards - MOLLE system.

Can be carried by hand/on the shoulder/attached to a stretcher.



## Military Accessories Soft Bag

P/N: VWSP-914 (Non USA)

### Dimensions:

General	210x250x90mm
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Clips for quick attachment between bags

## Mounting System for Ventway Sparrow

P/N: Low pressure: VWMNT-321

P/N: High pressure: VWMNT-311/VWMNT-311 AGA



### Specifications:

Parameter	Low-pressure mount	High-pressure mount
Dimension	235 x 235 x 106 mm	320 x 235 x 106 mm
Weight	1.2 kg	2.3 kg
Oxygen working pressure	N/A	2.5 - 4.0 bar (40 - 60 psi)
Standards compliance	<ul style="list-style-type: none"><li>▪ EN-1789</li><li>▪ SAE J3043</li><li>▪ FAR standards (23.561, 25.561, 27.561, 29.561)</li><li>▪ 80-601-2-84-201.9.4.3.101B2</li></ul>	<ul style="list-style-type: none"><li>▪ EN-1789</li><li>▪ SAE J3043</li><li>▪ FAR standards (23.561, 25.561, 27.561, 29.561)</li><li>▪ 80-601-2-84-201.9.4.3.101B2</li></ul>



### First-Responders Airway Management to Support Non-Invasive Ventilation (NIV)

Optimal airway management in the battlefield setting requires tools that are effective regardless of the situation. The LUBO offers just that by providing continuous airway management (via a mechanical jaw-thrust), supporting non-invasive ventilation, and allowing every medic to attend casualties while maintaining operational combat readiness.

**Lubo**

**Lubo Robust**

INV-02-000-IT-6003-R02

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**ULTRA PORTABLE  
TURBINE  
VENTILATOR  
ROBUST**

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THE POWER TO SAVE LIVES

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