



ventway 
SPARROW

Product Brochure

INOVYTEC 
THE POWER TO SAVE LIVES



✓ Ultra Portable Turbine Ventilator

The Ventway's unique combination of high-performance, functionality, and compact design, position it among the top emergency and transport ventilators.

Designed to be impact resistant, ultra portable and user-friendly, the Ventway Sparrow enhances the standard of care in both Field and Combat medicine. Ventway enables effective ventilation from the point of injury all the way to the ICU while using just one ventilator.



Ultralight

Easy to carry and handle



Minimal Maintenance

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



Proven Performance

Clinically precise, field-proven ventilation performance

✓ FDA Cleared ✓ CE Approved ✓ Pmda Certified

Ventway Sparrow

P/N: VWSP-100

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 ₂ O ± 2 cmH ₂ O or 10% whichever is greater
Tidal Volume	50-2000 mL ±10% + 4 mL
Inspiratory Pressure Limit	11 to 60 cmH ₂ O ± 2 cmH ₂ 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 ₂)	21%-100% Accuracy of FiO ₂ : 30%- 40%, ±15% 40% to < 95%, ±10% 95% to 100%, ±5%
PEEP	0 to 20 cmH ₂ O ± 1 cmH ₂ O (externally adjusted)
Trigger Sensitivity	-0.25 to -10 cmH ₂ O Pressure, Off
Pressure Support Limit	11 to 50 cmH ₂ O above PEEP ± 2 cmH ₂ O
Pressure Alarm Limit	10 to 55 cmH ₂ O above PEEP ± 2 cmH ₂ O
FiO ₂ Low Pressure Enrichment	21% to 100% (low and high pressure oxygen source)
Altitude	-1200 ft up to 25,000 ft (-370m to 7,620m)

* Not FDA cleared

Power Specifications

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

Ventway Sparrow Packaged

P/N: VWSP-1000



Ventway Sparrow VWSP-100	AC/DC Power Adapter VWSP-141	Rechargeable Battery VWSP-420	Ventway Sparrow IFU 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).

✓ 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 ₂ O @ 60 lpm
Dead Space	31 cc
Circuit Compliance	0.001 L/cmH ₂ 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 ₂ O @ 30 lpm
Dead Space	29 cc
Circuit Compliance	0.0008 L/cmH ₂ 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 ₂	21%-100% O ₂
High Pressure	40-87 psi

Oxygen Enrichment Kit

P/N: VWSP-304

Dimensions

Folded	550x90x30 mm
Un-folded	1200x50x30 mm
O ₂ Tube Length	1800 mm
Maximal O ₂ 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 Adaptor

P/N: VWSP-141

Dimensions:

Power Adaptor Unit	180x60x50mm
Ventilator Inlet Cable Length	1000mm
Power Source Cable Length	1800mm
Input Voltage	90-264 VAC (Universal)
Input Frequency	47-63 Hz
Input Current	2.0A @ 115 VAC
Operating Temperature	0° - +40°C
Storage Temperature	-40°C - +80°C
Operating Humidity	10-95%
Available Input Plug	EU, US/JP, AUS/N.Z, ISR



DC/DC Car Power Adaptor

P/N: VWSP-142

Dimensions:

Power Adaptor Unit	147x73x30mm
Ventilator Inlet Cable Length	900mm
Power Source Cable Length	1200mm
Input Voltage	11.5-16.0VDC
Output Voltage	24VDC
Input Current	7A @ 12VDC
Operating Temperature	-15 C - +40 C
Storage Temperature	-40 C - +80 C
Operating Humidity	10-95%



✓ 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	150~1000ml
Pressure Drop	0.35kpa @30L / min
Moisture Output	≥34.5 mg/l @Vt 1000ml
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	65ml
Pressure Drop at 30 LPM	1 cmH ₂ 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

Soft Carrying Bag

P/N: VWSP-910



Dimensions:

General	180x190x100mm
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Built from medical grade materials this soft carrying bag is designed for maximum efficiency during treatment.

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

⚠ Not Berry Amendment compliant

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"> ▪ EN-1789 ▪ SAE J3043 ▪ FAR standards (23.561, 25.561, 27.561, 29.561) ▪ 80-601-2-84-201.9.4.3.101B2 	<ul style="list-style-type: none"> ▪ EN-1789 ▪ SAE J3043 ▪ FAR standards (23.561, 25.561, 27.561, 29.561) ▪ 80-601-2-84-201.9.4.3.101B2



Lubo

Lubo

INV-02-000-IT-7040-02

Mini Lubo

INV-03-000-IT-7040-01

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

When Every Second Counts

In emergency situations, every second matters. First responders treating unconscious patients need reliable tools that enable fast, effective, and continuous care.

The LUBO family of devices provides exactly that - delivering hands-free, non-invasive airway management through a mechanical jaw-thrust mechanism. Designed to support ventilation during CPR and adaptable for use in mass casualty incidents (MCIs), the LUBO empowers responders to maintain airway patency while keeping their hands free for life-saving interventions.

✓ PRODUCTS LIST & P/N

P/N	PRODUCT DESCRIPTION	PAGE NO.
VWSP-100	Ventway Sparrow	2
VWSP-1000	Ventway Sparrow Packaged	2
VWSP-1450F/1370	Patient Circuit Adult	3
VWSP-1550F/1390	Patient Circuit Pediatric	3
VWSP-580	Oxygen Mixer	3
VWSP-304	Oxygen Enrichment Kit	4
VWSP-590	DISS-DISS Oxygen Tube (green)	4
VWSP-591	DISS-DISS Oxygen Tube (white)	4
VWSP-592	DISS-DIN Oxygen Tube (white)	4
VWSP-593	DISS-AGA Oxygen Tube (white)	4
VWSP-929	DC Cable - Without Input Terminal	5
VWSP-141	AC/DC Power Adaptor	5
VWSP-142	DC/DC Car Power Adaptor	5
VWSP-420	Rechargeable Battery	6
VWSP-430	Non-Rechargeable Battery	6
VWSP-305	HME Filter	7
VWSP-306	Bacterial/Viral Filter	7
VWSP-810	Filter Pack	7
VWSP-920	Hard Carrying Bag	8
VWSP-910	Soft Carrying Bag	8
VWMNT-321	Mounting System for Ventway Sparrow Low Pressure	8
VWMNT-311/VWMNT-311 AGA	Mounting System for Ventway Sparrow High Pressure	8
INV-02-000-IT-7040-02	Lubo	9
INV-03-000-IT-7040-01	Mini Lubo	9



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ULTRA PORTABLE
TURBINE
VENTILATOR
EMS

MKD-04-002 | Rev:01 | SEP2025



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