ventway SPARROW

INOVYTEC
THE POWER TO SAVE LIVES

VENTWAY SPARROW

PRODUCT CATALOG

ULTRA PORTABLE TURBINE VENTILATOR

Ventways' unique combination between high-perfomance functionality alongside its compact characteristics, positions it in the top row of critical care ventilators.

Designed to be impact resistant, ultra handy and user-friendly, Ventway perfects the standard of care in emergency and transport medicine.

Ultralight
Easy to handle and carry

Multifunction
Hospital performance on field

Maintenance Free
Durable and reliable device which delivers relentless ventilation, and requires only periodical filter replacement

Energy Flex
Compatible with rechargeable and non-rechargeable battery

Ventway Sparrow
P/N: VWSP-100

Dimensions **165×167×60 mm** | Weight **1 kg**

Perfomance Data

Ventilation Modes	SIMV-VC-PS, CPAP, CPR (Invasive/Non-Invasive)
Quick Start Mode	Automatic Parameter Adjustment
Adult & Pediatric	Patient Weight >5 Kg (11Lb)
Tidal Volume	50-1800 ml
Breath Rate	1-60 BPM
Peak Inspiratory Pressure	0-65 cmH_2O
Peak Inspiratory Flow	1-150 L/min
Trigger	2-10 cmH_2O, -3 to 10 L/min
PEEP	5-15 cmH_2O
Low Pressure O2 Source	21%- 95% ±5% O2
Altitude	up to 25,000 ft

Power Specifications

Rechargeable Battery Pack	Li 2850 mAh
Non-Rechargeable Battery Pack	Li 3000 mAH
External AC-DC Adaptor	90~264VAC 50/60Hz
External DC-DC Vehicle Adaptor	18~28VDC 4A max

Major Standards

IEC 60601-1, IEC 60601-1-2, IEC 60601-1-12, ISO 80601-2-12, ISO 10651-3, EN 794-3, RTCA DO 160G, EN 1789, IP 54 (with oxygen)

ULTRA PORTABLE TURBINE VENTILATOR

The Ventway's unique combination between high-performance functionality alongside compact characteristics, positions it in the top row of EMS and transport ventilators.

Designed to be impact resistant, ultra handy and user-friendly, Ventway Sparrow perfects the standard of care in Field and combat medicine.Ventway allows treating any patient from the point of injury all the way to the ICU using only one ventilator.

Ultralight
Easy to handle and carry

Multifunction
Hospital performance on field

Maintenance Free
Durable and reliable device which delivers relentless ventilation, and requires only periodical filter replacement

Energy Flex
Compatible with rechargeable and non-rechargeable battery

Night Vision
Goggles compatible

Ventway Sparrow - Robust
P/N: VWSP-900

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

Perfomance Data

Ventilation Modes	SIMV-VC-PS, CPAP, CPR (Invasive/Non-Invasive)
Quick Start Mode	Automatic Parameter Adjustment
Adult & Pediatric	Patient Weight >5 Kg (11Lb)
Tidal Volume	50-1800 ml
Breath Rate	1-60 BPM
Peak Inspiratory Pressure	0-65 cmH_2O
Peak Inspiratory Flow	1-150 L/min
Trigger	2-10 cmH_2O, -3 to 10 L/min
PEEP	5-15 cmH_2O
Low Pressure O2 Source	21%- 95% ±5% O2
Humidity Level	5% to 95%
Altitude	up to 25,000 ft

Power Specifications

Rechargeable Battery Pack	Li 2850 mAh
Non-Rechargeable Battery Pack	Li 3000 mAH
External AC-DC Adaptor	90~264VAC 50/60Hz
External DC-DC Vehicle Adaptor	18~28VDC 4A max

Major Standards

IEC 60601-1, IEC 60601-1-2, IEC 60601-1-12, ISO 80601-2-12, ISO 10651-3, EN 794-3, RTCA DO 160G, EN 1789, MiL STD 810G, MiL STD 461G, MiL STD 1275

PATIENT CIRCUITS

Patient Circuit | Adult

P/N: VWSP-450*

Dimensions	
In Bag	400x300x50mm
Length	1800 mm
Internal Volume	690/920 cc
Inspiratory Resistance to Flow	2.7 cmH20 @ 60 lpm
Dead Space	17cc
Circuit Compliance	0.001 L/cmH20
Corrugated Tube Diameter	22mm
Delivered Tidal Volumes	Tv > 200 cc

*Also available in a 2300 mm version

Patient Circuit | Pediatric

P/N: VWSP-550*

Dimensions	
In Bag	350x250x40mm
Nominal Overall Length	1800 mm
Internal Volume	318/424cc
Inspiratory Resistance to Flow	5.4 cmH20 @ 30 lpm
Dead Space	16.5cc
Circuit Compliance	0.008 L/cmH20
Corrugated Tube Diameter	15mm
Delivered Tidal Volumes	50 ml < Tv < 200 cc

*Also available in a 2300 mm version

O2 ENRICHMENT

Demand Valve Assembly

P/N: VWSP-580

Dimensions	150x90x70mm

Low Pressure O2 enrichment kit (Reservoir)

P/N: VWSP-304

Dimensions	
Folded	550x90x30 mm
Un-folded	1200x50x30 mm
O2 tube length	1800 mm
Minimal O2 Flow	15 lpm

High Pressure O2 DISS-DISS Tube with OHMEDA (male) connector

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/white

POWER SUPPLY & BATTERIES

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

AC/DC 400Hz. Power Adaptor

P/N: VWSP-147

Dimensions

General	80x45x45mm
Input Voltage	90-264 VAC (Universal) @ 50Hz/60Hz/400Hz
DC input Range	18- 38VDC
Operating Temperature	-20°C - +60°C
Storage Temperature	-40°C- +60°C
Operating Humidity	10-90%
Operating Altitude	51k ft.
Available input plug	EU, US/JP, AUS/N.Z, ISR

DC/DC Car Power Adaptor

P/N: VWSP-142

Dimensions

Power Adaptor Unit: 180x80x50mm
Ventilator Inlet Cable Length: 1000mm
Power Source Cable Length: 1800mm
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

Non-Rechargeable Battery

P/N: VWSP-430

Dimensions	
General	85x75x25mm
Nominal Voltage	12V (3.0V*4)
Rated Capacity	3000mAH
Standard Discharge	20Ma ± 50mAH
Maximum Discharge Current	3000mA MAX
Operation Temperature	-20°C ~ + 60°C
Storage Temperature	-20°C ~ + 60°C
Weight	175.5g

Rechargeable Battery

P/N: VWSP-420

Dimensions	
General	85x75x25mm
Nominal Voltage	14.8V ± 0.2V (3.7V*4)
Charging Voltage	16.8 ± 0.2% (4.2V*4)
Rated Capacity	2850mAH ± 50mAH
Standard Charge	570Ma ± 10MA (0.2C Charge)
Maximum Charge Current	2500mA MAX
Standard Discharge	570mA ± 10MA (0.2C Charge)
Maximum Discharge Current	2500mA MAX
Operation Temperature	-20°C ~ + 60°C
Storage Temperature	-20°C ~ + 70°C
Weight	235g

FILTER UNITS

HME Filter 1000 Straight

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

Dust Filter

P/N: VWSP-306

Dimensions

General	65x65x68 mm
Connector	22F-22M
Compressible Volume	65ml
Pressure Drop at 30 LPM	1cmH20
Bacterial Filtration Efficiency	99.99+%
Viral Filtration Efficiency	99.99+%

Filter Pack

P/N: VWSP-810

Internal filters for the ventilator

CARRYING AND MOUNTING

Rigid Case Ventilator Kit

P/N: VWSP-9100*

Unbreakable yet lightweight transport and storage case for even the harshest environments.

Dimensions

Case weight	2.8 kg
External	426 x 290 x 159 mm
Internal	464 x 366 x 176 mm
Water & Dust resistance	IP67

Includes

- Ventway Sparrow Ventilator (Robust)
- 2 x Patient Circuit Adult
- 2 x Non-Rechargeable Battery
- 2 x Rechargeable Battery
- Reservoir (tubic)
- Vehicle DC Cable
- Demand Valve assembly
- DISS to DISS Tube high pressure 02 tube
- HME Filter
- Dust Filter
- Soft Carrying Bag
- 5 x Filter units
- Low pressure 02 enrichment kit

*Also available with Ventway Sparrow Ventilator (Regular)

Soft Carrying Bag

P/N: VWSP-910

Dimensions 180x190x100mm

The Soft carrying bag was built from medical grade materials and was designed for maximum efficiency during treatment while maintaining the compact features of the Ventway Sparrow:

- Contains up to 2 extra batteries (12 hours of efficient ventilation).
- Contains Adult/Pediatric patient circuit.
- Supports 02 enrichment from high/low pressure source.
- Can be carried by hand/on the shoulder/ attached to a stretcher.

Universal mounting Rig

P/N: VWSP-510

Dimensions 110x110x15 mm

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