



MR
ventway
SPARROW



Product Brochure

INOVYTEC 
THE POWER TO SAVE LIVES



✓ An In-Hospital Ultra Portable Turbine Ventilator

The Ventway's unique combination of high performance, advanced functionality, MRI compatibility, and compact design makes it an ideal solution for in-hospital transport ventilation.



Ultralight

Easy to carry and handle



MRI Compatible

Up to 3 Tesla



High Performance

Advanced capabilities to match in-hospital transport scenarios



Minimal Maintenance

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

✓ FDA Cleared ✓ CE Approved ✓ Pmda Certified

Ventway Sparrow-MR

P/N: VWSP-100MR

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 3000 mAh
External AC-DC Adaptor	100-240 VAC, 50/60 Hz

Ventway Sparrow-MR Packaged

P/N: VWSP-1000MR



Ventway Sparrow VWSP-100MR	AC/DC Power Adapter VWSP-141	Rechargeable Battery VWSP-420	Ventway Sparrow IFU VWSP-500
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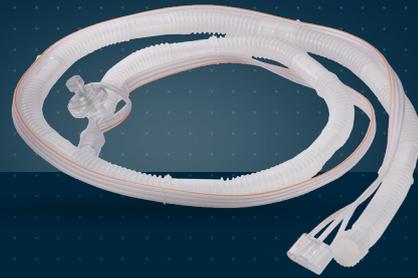
Major Standards

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), ASTM F2119 3 Tesla.

✓ 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



Dimensions:

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

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



✓ 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

Ventway Package Box

P/N: VWSP-226

Dimensions:



General	389 x 259 x 210mm
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✓ CARRYING AND MOUNTING

Universal Mounting Rig

P/N: VWMNT-100MR



✓ PRODUCTS LIST & P/N

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**ULTRA PORTABLE
TURBINE
VENTILATOR
HOSPITAL**

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