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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, functionality, MRI compatibility, and compact design, position it among the top In-Hospital transport ventilators.

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



Ultralight

Easy to carry and handle



MRI Compatible

Up to 3 Tesla



High Performance

Advanced capabilities to match all in-hospital transport scenarios



Maintenance Free

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

Ventway Sparrow-MR

P/N: VWSP-100MR

Dimensions: 165x167x60 mm | Weight 1.3 kg



Performance Data

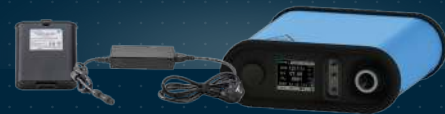
Ventilation Modes	SIMV-VC-PS, SIMV-PC, CPAP, HFNC [▲] , CPR Mode [▲]
Adult & Pediatric	Patient Weight >5 Kg (11 lb)
Respiratory Rate	1 – 60 ± 1 bpm
Peak Inspiratory Pressure	0-60 cm H ₂ O
Tidal Volume	50-2000 mL ±10% + 4 mL
Inspiratory Pressure Limit	11 to 60 cm H ₂ O ± 2 cm H ₂ O or 10% whichever is greater
Inspiratory Time	0.3 to 4 ± 10% sec
I:E Ratio	1:4 to 4:1
Peak Flow (PIF)	Mandatory breaths: 135 L/min (-5% to +10%) Spontaneous breaths: 160 L/min ± 10%
Oxygen Mix (FiO ₂)	21% to 95% ± 5% O ₂
PEEP	0 to 20 cm H ₂ O ± 1, (externally adjusted)
Trigger Sensitivity	-0.25 to -10 cm H ₂ O Pressure, Off
Pressure Support Limit	11 to 50 cm H ₂ O above PEEP ± 2 cm H ₂ O
Pressure Alarm Limit	10 to 55 cm H ₂ O above PEEP ± 2 cm H ₂ O
FiO ₂ Low Pressure Enrichment	21% to 100% (low and high pressure oxygen source)
Altitude	-1200 ft up to 25,000 ft

Power Specifications

Rechargeable Battery Pack	Li 2850 mAh
Non-Rechargeable Battery Pack	Li 3000 mAh
External AC-DC Adaptor	100~264VAC 50/60Hz
External DC-DC Adaptor	18~28VDC 4A max

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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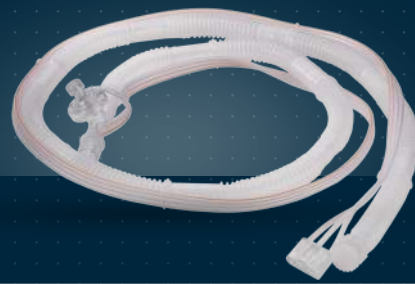
Major Standards

IEC 60601-1, IEC 60601-1-2, IEC 60601-1-12, ISO 80601-2-12, 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	150x90x70mm
FiO ₂	30%-95% O ₂
High Pressure	40-60 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	2850mAh ± 50mAh
Maximum Charge Current	2500mA
Maximum Discharge Current	2500mA MAX
Recharge Time	4 hours
Operating Time (Internal Battery)	4 hours
Operation Temperature	-20°C - 50°C
Long Term Storage	-20°C to 25°C
Weight	235g

Non-Rechargeable Battery

P/N: VWSP-430



Dimensions:

General	85x75x25mm
Nominal Voltage	12V
Rated Capacity	3000mAh
Standard Discharge	20mA ± 50mAh
Maximum Discharge Current	3000mA
Operating Time	3 hours
Operation Temperature	-20°C - 50°C
Storage Temperature	-20°C - 35°C
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

⚠ Not available for sale in the USA

Bacterial/Viral Filter

P/N: VWSP-306



Dimensions:

General	65x65x68 mm
Connector	22F-22M
Compressible Volume	65ml
Pressure Drop at 30 LPM	1cmH2O
Bacterial Filtration Efficiency	99.99+%
Viral Filtration Efficiency	99.99+%

⚠ Not available for sale in the USA

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-100



✓ PRODUCTS LIST & P/N

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1 KG

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VENTILATOR
HOSPITAL**

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