## **Specification: NV 8**



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# Neonatal Ventilator NV 8

#### **Technical Specification**

#### **Physical Characteristics**

Size 1300mm\*440mm\*520mm

Weight 26kg

Screen Size: 8" TFT touch screen

Resolution 800 × 600

Caster wheel 4 wheels 4" brakes

Brightness: Adjustable

#### **Operation Environment**

Working Temp  $5^{40}^{\circ}$ C Humidity  $10^{95}$ %

Power Supply 100-240V~, 50/60Hz±1Hz

Battery Type Rechargeable Lithium-ion battery

Battery Capacity 2600mAh

Battery Recharging 10 hours for charging;

Time

Battery backup 240min (fully charged new battery,

ambient temperature of 25°C)

Trace Waveforms: Pressure-time;

Flow histogram: Gas flow

Interfacing:

**USB** interface

DC power interface(12~24V)

RJ45 RS232

AC power interface

Equal-potential grounding terminal

**Data storage** 

Log: 2000 groups
Trend Graph: 120 hours
Trend Table: 120 hours



Alarm: User-adjustable High and Low 3-level

Limits

Prioritized audible and visual alarm

### **Abdominal respiratory monitoring**

Monitoring Available

respiratory rate:

Trigger sensitivity: Adjustable

Triggering

synchronous Available

ventilation:

Apnea awaking: Available

**Features** 

Air oxygen mixer

type: Built-in electronic air oxygen mixer

Patients: Designed for neonatal Mode: Mechanical, Standby

Direct set pressure: Available

Leakage

compensation: Available

Built-in oxygen

sensor monitoring: Available

Oxygen

concentration test: Available Leakage test: Available Power on self-test: Available

Self-test information

graphic indication: Available



Available Lock screen: Accuracy: ±0.5 L/min or ±5% of set

Built-in water cup: Available value, whichever is the greater.

Oxygen Manual ventilation: 3cmH2O~15cmH2O

concentration online 3L/min~25L/min (Manual ventilation) calibration Optional

Accuracy: ±0.5cmH2O or ±5% of set

Gas Different kinds of gas input connectors value, whichever is the greater.

are different; Check valve connector(input): Oxygen

280~600kPa concentration: 21%~100%: Gas input pipe

Accuracy: ±3% of set value

**Ventilator Specification** 

Airway pressure:

Respiratory rate:

**Ventilation Modes** concentration: 23%~100%;

NCPAP Nasal continuous positive airway Accuracy: ±3% of set value

**Duration of manual** 

1s~15s **NIPPV** Nasal intermittent positive pressure ventilation:

> ventilation Duration of flush

**SNIPPV** Synchronized nasal intermittent oxygen ventilation

> positive pressure ventilation time: 30s~120s

**HFNC** Heated humidified high-flow nasal **Ventilator Monitoring** 

cannula

Driven mode: Continuous constant flow parameter: Airway pressure, apnea awaking,

Driven gas: Electronic selective air or O2 apnea interval, PEEP, inspiratory

**Ventilator parameter ranges** pressure, respiratory rate, backup

frequency, inspiratory time, flow rate, 1cmH2O~13cmH2O

Accuracy: ±0.5cmH2O or ±5% of set manual ventilation, oxygen value, whichever is the greater. concentration, flush oxygen

Monitoring

Flush oxygen

Apnea awaking: 3cmH2O~20cmH2O concentration, duration of manual

> Accuracy: ±0.5cmH2O or ±5% of set ventilation, duration of flush oxygen

ventilation time value, whichever is the greater.

Apnea interval: OFF, 10s~30s Oxygen

> concentration: 0%~100%; Accuracy: ±1s

PEEP: 1cmH2O~13cmH2O Accuracy: ±2% of reading value

Accuracy: ±0.5cmH2O or ±5% of set -10cmH2O~100cmH2O Airway pressure

> Accuracy: ±0.5cmH2O or ±5% of value, whichever is the greater.

Inspiratory pressure: 3cmH2O~20cmH2O reading value, whichever is the greater.

> -10cmH2O~100cmH2O Accuracy: ±0.5cmH2O or ±5% of set **PEEP**

Accuracy: ±0.5cmH2O or ±5% of value, whichever is the greater.

1bpm~120bpm reading value, whichever is the greater.

Accuracy: ±0.5bpm or ±1% of set value, **Ppeak** -10cmH2O~100cmH2O

whichever is the greater. (Airway pressure) Accuracy: ±0.5cmH2O or ±5% of

Backup frequency: 1bpm~120bpm reading value, whichever is the greater.

-10cmH2O~100cmH2O Accuracy: ±0.5bpm or ±1% of set value, Pmean

whichever is the greater. (Mean pressure) Accuracy: ±0.5cmH2O or ±5% of

reading value, whichever is the greater. Inspiratory time: 0.1s~15s

Accuracy: ±0.005s

Flow rate: 0.5L/min~20L/min; Freq 0~200 bpm

> 3L/min~25L/min (Manual ventilation) (Respiratory rate)



Accuracy: ±1bpm or ±5% of reading Manual ventilation: ±0.2L/min or ±5% value, whichever is the greater. of the set value, whichever is greater. Flow rate 0.5~20L/min Apnea interval: ±0.1s Accuracy: ±0.5L/min or ±5% of reading **Alarm Settings** value, whichever is the greater. Pressure High: 2.5~20cmH2O Inspiratory time 0.4s~30s Low: 0.5~18cmH2O Accuracy: Unspecified Oxygen I: E concentration High: 20~105% 1:1~1:10 (Inspiratory-Accuracy: Unspecified Low: 18~103% expiratory ratio) Alarm mute 120s Duration of flush Alarm delay 1~10s (step: 1s) oxygen ventilation **Oxygen Sensor** time: 30s~120s (step: 30s) Type Electronic flow meter 0~100% **Manual Ventilation** Range **Under NCPAP Mode** Pressure adjustable Accuracy ±2% **Under HFNC Mode** Flow adjustable 100% oxygen Under NIPPV, SNIPPV 100±1% signal deviation Mode Maintain inspiratory pressure Resolution 1hPa O2 **Duration Setting** Expected service life 1.5x10<sup>6</sup> % measurement hours (at range 1s~15s (step: 1s) 20°C); **Ventilator accuracy** 0.8x10<sup>6</sup> % measurement hours (at CPAP: ±0.2cmH2O or ±2% of the set value, 40°C) whichever is greater. Response time (21% air - 100% oxygen) <15s Pinsp: ±0.2cmH2O or ±2% of the set value, Linear 0-100% O2 Linearity whichever is greater. Working -20°C~50°C temperature PEEP: ±0.2cmH2O or ±2% of the set value, Temperature whichever is greater. compensation 0-40°C (±2% fluctuation) Atmospheric Manual ventilation: ±0.2cmH2O or ±2% of the set value, pressure 50~200KPa whichever is greater. 0~99% Relative humidity 100% oxygen Papnea: ±0.2cmH2O or ±2% of the set value, concentration whichever is greater. output drift Typical value beyond one year: <5% Material White ABS Oxygen Validity 13 months (or shorter if any of our concentration ±3% of the set value requirements is violated) as from the Flush Oxygen ±3% of the set value package removing date ±0.5 bpm or ±1% of the set value Respiratory rate **Gas Supply** ±0.5 bpm or ±1% of the set value Backup frequency Pipeline gasses O2, Air Inspiratory time ±0.005s of the set value Pipeline gas Flow: ±0.2L/min or ±5% of the set Flow rate, connection NIST

Pressure range at

inlet

280~600 kPa

value, whichever is greater.



Auxiliary gas supply Flush oxygen, manual

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