



ENDO-NV8 Neonatal Ventilator

Specially designed for neonates, NV8 provides the most professional and diversified noninvasive nasal ventilation modes with advanced apnea wakeup function and automatic leakage compensation function.

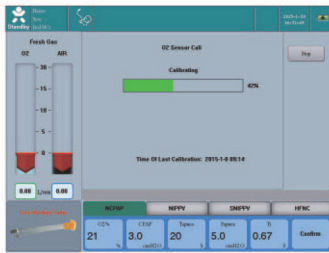
Accurate and safe fresh gas delivered by iFlow Intelligent Closed-loop Control System to protect fragile new life;
User-friendly operating system with easy clinical practice to facilitate medical staff;
Integrated ventilation solutions providing SNIPPV/NIPPV, NCPAP and HFNC modes for safe ventilator weaning.





- Double CPUs: double protection
- Electronic flow sensor: Flow sensor provided by Honeywell
- Proportional valve: Norgren valve, with stable performance.
- Oxygen sensor: City sensor, long service life, high precision, quick response.
- When setting key parameters like pressure and oxygen concentration, intelligently give out safety signs to avoid maloperation.
- Built-in lithium battery, with over 4hrs working time, guarantee normal operation during power failure and transportation.

User-friendly design



Oxygen concentration one-button auto-calibration

avoid incorrect operation due to human error, provide accurate and reliable oxygen concentration data.

Self-check function when start up

ensure ventilation safety, reduce medicare providers' waiting time and get ready to use machine .

LED touch screen

8" LED-backlit LCD, touch screen; clear and bright from multiple angles, monitoring data highlighted; intuitive setting design reducing human errors, enabling doctors focusing on neonates.

Safe and reliable



- Proximal pressure monitoring: without being affected by mechanical dead space in the closed loop and compliance, accurately measure patient's airway pressure, the most recognizable method in the industry.



- Optional ultra-silent air compressor; <50DB noise when working.

Quick parameter setting, greatly reducing workload

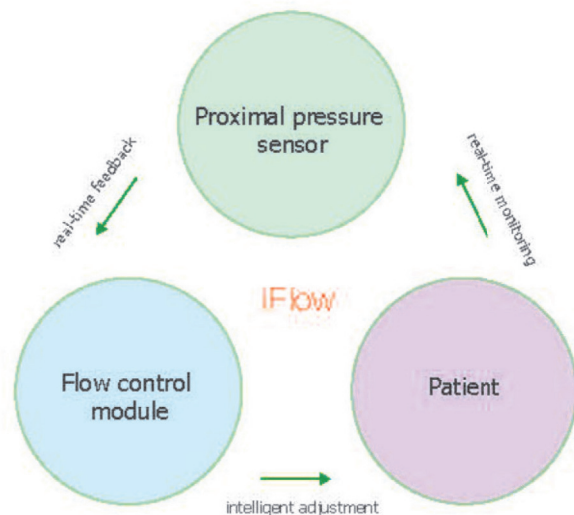
Direct pressure setting

Traditional CPAP devices with low degree of automation requires manual repetitive airflow adjustment to control pressure. Also, pressure monitoring from a distal end (in the device) fails to truly reflect patient's airway pressure. NVS directly sets the value of pressure for fully automatic pressure control.

Direct oxygen concentration setting

Traditional CPAP devices use mechanical air/oxygen blender, or oxygen flowmeter and air flowmeter combination, complicated to operate, easy to affect accuracy due to mechanical wear. NVS uses electronic air/oxygen blender: with one button to set the value of oxygen concentration and can auto-proportionate oxygen and air flow. High-precision flow sensor and proportional valve equipped enable real-time feedback and oxygen concentration precision within $\pm 3\%$.

IFlow Intelligent Closed-loop Control System: intelligently adjusts fresh gas flow and airway pressure in a closed loop. Also, proximal pressure monitoring (under the nose) and real-time leakage compensation enable stable pressure output.



The world's leading ventilation modes

NCPAP (Nasal continuous positive airway pressure) + apnea wakeup function

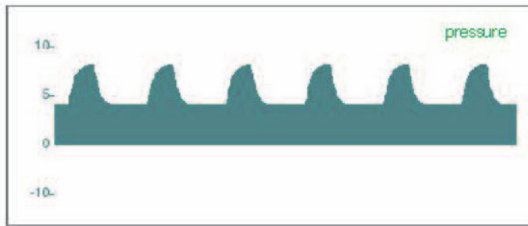


NCPAP + apnea wakeup ventilation waveforms

Exceptional apnea wakeup function

Sleep apnea occurs among 50% to 60% preterm babies. The shorter the gestation is, the higher the incidence. Abdomen attached respiration sensor configured provides reliable apnea monitoring and wakeup function, effectively lowering the incidence.

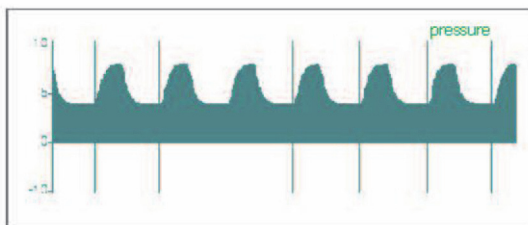
- **Abdomen attached respiration sensor:** Neonates conduct abdominal breathing. Attach the sensor to the abdomen, obvious abdomen up and down movements squeeze the sensor and transforms respiratory signals to electric ones for the system to collect and identify.
- **Apnea wakeup function:** When there is no spontaneous breathing signal detected during the preset apnea interval, give out one time inspiratory pressure for apnea wakeup, or switch to backup ventilation.



NIPPV waveforms

NIPPV (Nasal intermittent positive pressure ventilation)

- Through increasing the pressure of the upper respiratory tract by intermittently increasing pharyngeal pressure, and through encouraging respiratory movements by intermittent laryngeal expansion, NIPPV can produce higher average airway pressure than CPAP and can increase alveolar filling. This would effectively improve oxygenation and ventilation, reduce patient's work of breathing (WOB), and increase functional residual capacity (FRC).
- Maximum 15 seconds long inspiratory time, ensuring smooth and spontaneous breathing under bilevel pressure.



SNIPPV+ Synchronous trigger waveforms

SNIPPV (synchronized nasal intermittent positive pressure ventilation) + backup ventilation)

- Synchronization with breathing: when patient inhales, its abdomen goes up and triggers the sensor to send out inspiratory pressure synchronically, reducing man-machine confrontation and WOB, smoothing the breath.
- Abdomen attached respiration sensor: accurately identify respiratory waveform, synchronically be triggered and precisely monitor respiratory rate (RR).
- Backup ventilation: when patient stops breathing for longer than the preset apnea interval, NVS will automatically switch to backup ventilation and ventilate patient as per preset RR to prevent sleep apnea.



HFNC pressure monitoring waveforms

HFNC (High flow nasal cannula) + pressure monitoring function

- Compared with traditional oxygen therapy instrument, NVS makes real-time pressure monitoring and waveform display possible, guaranteeing ventilation safety under HFNC mode and preventing unpredicted consequences due to overpressure.
- Comes standard with Fisher&Paykel humidifier, offering warm and fresh gas for neonates.

One button for fast oxygen ventilation

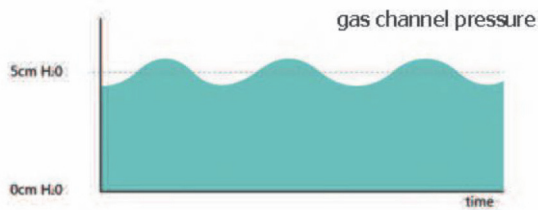
- Maximum 120 seconds' oxygen output with high concentration, one-button operation, quick SpO2 restoration after clinical care, reducing workload.

Manual ventilation

- Higher airway pressure feasible based on clinical needs, maximum 15-second continuous ventilation manually.

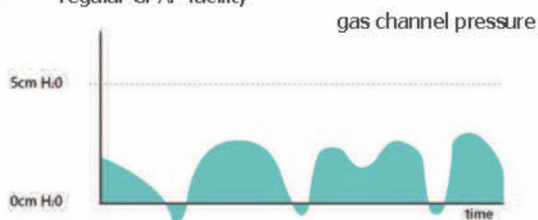
Pressure generator with Coanda effect

NVS system

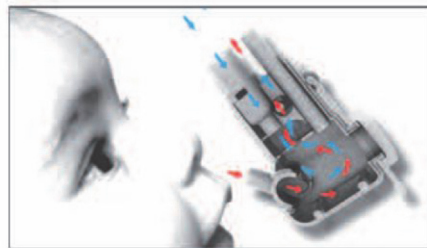


The most stable respiratory waveform

regular CPAP facility



Incorporates with Medin company's Medijet pressure generator;
Patented technology using Coanda effect; Produce proximal positive airway pressure.



Exhaled air vented out proximally, reducing CO₂ residual more effectively
and also reducing at most 75% WOB compared
with traditional CPAP devices.

Multisize soft silica gel nasal pillows, masks and cotton bonnets,
suitable for preterm as low as 500g, easy to wear.



Automatic leakage compensation

In case of leakage, Flow Intelligent Closed-loop Control System will compensate gas in real time to guarantee stable positive airway pressure. Its maximum 25% compensation is incomparable by traditional CPAP devices.