



NF5

High Flow Heated

Respiratory Humidifier

International Marketing Dept. Barry

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Clinical Knowledge of HFNC

What is HFNC

COMON

Provide a **certain flow, heated and humidified fresh gas** for treatment, and provide SpO2 monitoring.
For patients with **spontaneous breathing**, these patients include patients with humidification therapy, oxygen therapy, tracheal intubation and tracheotomy.

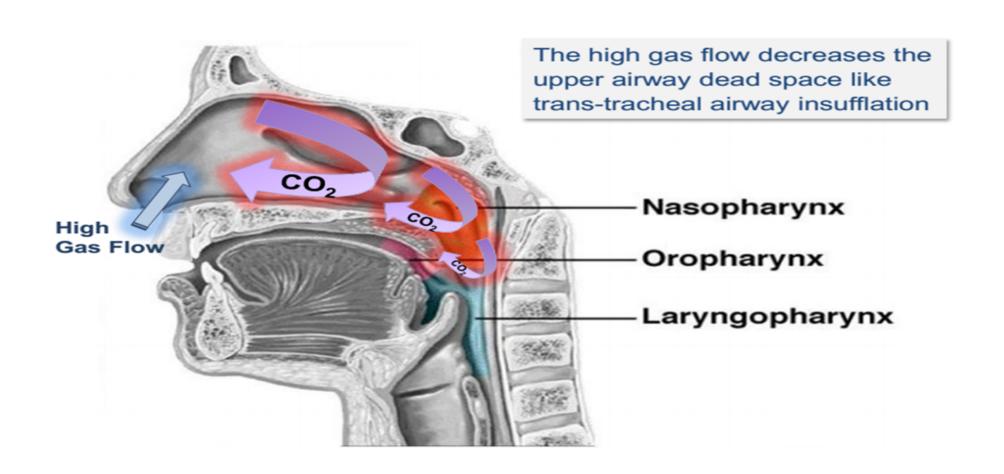


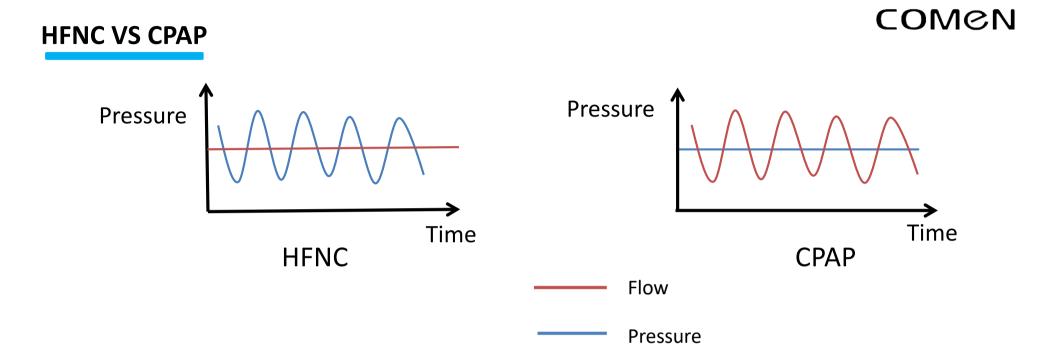
Syndrome

Memory respiratory failure (hypoxic)
During tracheal intubation
Post-extubation stage
Emergency application

Palliative care
Acute heart failure
Auxiliary bronchoscopy
Cardiothoracic surgery

Washout of nasopharyngeal dead space





HFNC generates variable airway pressure through a constant flow rate of fresh gas CPAP is to generate constant airway pressure by changing the flow rate of fresh gas

Application scenarios

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Applicate in variety of scenarios

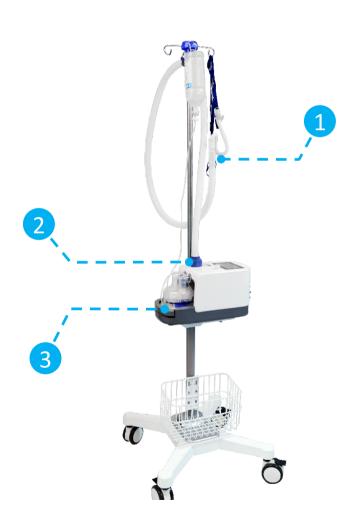
Product introduction

Differences between NF series

Model	NF1	NF2	NF3	NF5
Air-oxygen mixer	mechanical	electronic	electronic	electronic
Temperature position	3	3	7	7
SpO2	optional	optional	optional	optional
Flush oxygen supply	Х	٧	٧	٧
Built-in battery	optional	optional	X	optional

Advanced features

Safety guarantee



Multiple temperature monitoring

NF Series equipped with three temperature sensors, real-time temperature monitoring, synchronous closed-loop feedback, combined high temperature alarm, intelligent water level management and over-temperature protection functions to ensure safer heating

More comfortable treatment

COMON



High-performance nasal cannula

Ergonomic design, soft and comfortable, no pressure, increase patient comfort, and patient tolerance



Ultra-quiet turbines

The use of ultra-quiet turbines greatly reduces noise, provides a quiet oxygen therapy environment, and helps patients reduce irritability

Efficient oxygen supply

COMON





Flush oxygen supply

Rapidly increase oxygen concentration, increase patient oxygen reserve, and facilitate nursing operations such as sputum suction, bronchoscopy, and intubation



High-precision control of oxygen concentration

Adopt high-precision electronic air-oxygen mixing system and precise oxygen concentration monitoring module to realize precise regulation and real-time monitoring of oxygen concentration



Intelligent temperature and humidity control

Through intelligent temperature and humidity monitoring and closed-loop feedback mechanism, NF5 provides patients with accurate high-flow oxygen therapy close to the human **core body temperature** (37°C) and **100% relative humidity** (44mg/L), making the mucus cilia cleaning function at its best

SpO2 monitoring

COMON



SpO2 monitoring

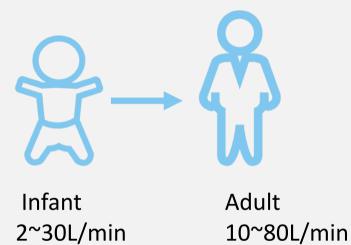
- Optional: Comen, Masimo or Nellcor SpO2 module
- Real-time updates of the patient's blood oxygen concentration, easy to evaluate the therapeutic effect of HFNC, so that doctors can optimize the treatment plan in time

Wide range of patient types

COMON

Suitable for treatment from infant to adult

Wide range flow control of **2-80L/min**, which can effectively flush out the physiological anatomical dead space, prevent carbon dioxide retention, meet the treatment requirements of infant to adult, and is suitable for clinical patients of different ages



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Easy of use









Large touch screen	Electronic mixer	Excellent design
NF5 adopts a 4.3-inch touch screen, controlled by touch screen or round knob, easy and practical	Flow and oxygen concentration setting more convenient, supplying fresh gas on demand	The UI design is simple and intuitive, and the content is lucid, makes clear, able to quickly find what you need

Intra-hospital transportation



How can HFNC work for the nCOVID-19 mild cases?

"Give supplemental oxygen therapy immediately to patients with SARI and respiratory distress, hypoxemia or shock and target SpO2 > 94%." --Clinical management of *severe acute respiratory infection* (SARI) when COVID-19 disease is suspected Interim guidance, WHO



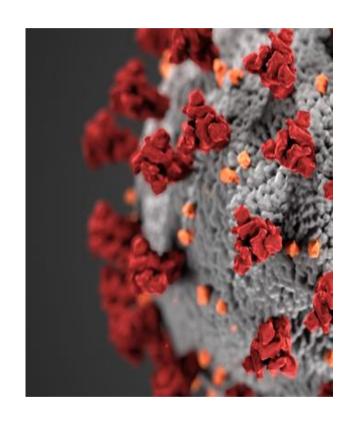
Situation

Severe patients often have hypoxemia and respiratory distress. Notes for usage A correct respiratory treatment is necessary.



Recommendation

High-flow nasal cannula (HFNC) therapy is highly recommended by Handbook of Convid-19 Prevention and Treatment.



Competitor analysis

























Specification	NF5	Precision Flow (Heliox)
Picture		22 YD 931,
Screen	4.3 inch touch screen	Backlit screen
Flow rate	2-80L/m	1-40L/m
Data Export	USB	NO
Turbine	YES	NO
Temp Adjust Level	7	11
Unique Functions	SpO2, O2 Flush, Trend review, Auxiliary O2	Heliox Therapy, Hi-VNI Technology

COMen









NF5

Precision flow

Convenience

- NF5 has larger screen with touch fucntion, providing numeric display and waveform display.
- Trend review supporting.





NF5 provide SpO2 function as optional for monitoring the SpO2 of patient, which will hlep doctor to optimize the treatment.





NF5

Intra-hospital transpotation

Precision flow

- Trubine Design: no requirement of Air source
- Built-in battery: provide power supply
- Compect and portable trolley: plateform of trasportaion

COMON VS WAPOTHERM



Solution

- Comprehensive Solution for Intensive Care Unit (ICU) .
- Able to provide a great range of products in ICU including Ventilator, Patient Monitor, Infusion and Syringe Pump, Pendant.

COMEN is the only 4 manufacturers in the world that can provide comprehensive ICU solution

COMON VS











Specification	NF5	Airvo 2 ™
Picture		
Screen size	4.3 inch touch screen	2"
Flow rate	2-80L/m	1-60L/m
Battery	30mins	X
Temp	31~37°C(7 levels adjustable)	31°C, 34°C, 37°C(3 levels)
Turbine	YES	NO
Accuracy of O2	±3%	±4%
SpO2	COMEN, MASIMO, NELLCOR	×
Trend	7 days (168h) graphical and tabular trend	×
Auxiliary O2 supply	V	X
Timer	V	×

COMen







Convenience

- NF5 has larger screen with touch fucntion, providing numeric display and waveform display.
- Trend review supporting.



Unique function of NF5

- SpO2 monitoring integrated
- 7 days of graphical and tabular trend review
- Auxiliary O2 supply (30L/Min)
- O2 flush

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COMON



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COMON VS











Specification	NF5	Vincent Medical O2FLO
Picture		
Screen size	4.3 inch touch screen	2.8"
Flow rate	2-80L/m	10-60L/m
Battery	30mins	Yes
Temp	31~37°C(7 levels adjustable)	31°C~ 37°C
O2 Concentration	21-100%, <u>+</u> 3%	21-95%, <u>+</u> 5%
SpO2 Monitoring	COMEN, MASIMO, NELLCOR	X
O2 Flush	V	×
Auxiliary O2 supply (30L/Min)	V	X
External O2 flowmeter	No need	Mechanically adjust the O2 flow rate







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- NF5 has larger screen with touch fucntion, providing numeric display and waveform display.
- Trend review supporting with waveform.

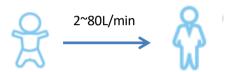


Unique function of NF5

- SpO2 monitoring integrated
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COMON



Wide range of flow control

- NF5 provides 2~80L/min, which satisfies the requirment of O2 treatment from infant to adult
- According to the "Expert Consensus on the Application of Adult HFNC Clinical Norms" in China, the range of new requirment for O2 therapy is 8~80L/ml, which Vincent can't meet it

COMen







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NSMOD







Specification	NF5	Sepray OH-70C
Picture		
Screen	touch function with waveform display	numeric display only without touch screen
Flow rate	2-80L/m	2-70L/m
Battery	30mins	×
Temp	31~37°C(7 levels adjustable)	31°C~ 37°C
O2 Concentration	21-100%, ±3%	21-100%, \pm 5%
SpO2 Monitoring	COMEN, MASIMO, NELLCOR	X
O2 Flush	V	×
Auxiliary O2 supply (30L/Min)	V	X













- NF5 has touch screen with numeric and waveform display, easy for operation and observation.
- Trend review supporting with waveform.



Unique function of NF5

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- Auxiliary O2 supply (30L/Min)
- O2 flush





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VS



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COMON VS







COMON

Specification	NF5	H-80AS
Picture		
Screen size	4.3 inch touch screen	3.5"
Flow rate	2-80L/mim	2-80L/mim
Battery	30mins	
Temp	31~37°C(7 levels adjustable)	29~37°C(9 levels adjustable)
Turbine	YES	YES
Accuracy of O2	±3%	±5%
SpO2	COMEN, MASIMO, NELLCOR	×
Trend	7 days (168h) graphical and tabular trend	7 days (168h) graphical and tabular trend
Auxiliary O2 supply	V	X
Timer	V	×











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COMON VS







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COMON VS









COMON

Specification	NF5	HUMID-BM
Picture		
Screen size	4.3 inch touch screen	3.5" no touch screen
Flow rate	2-80L/mim	2-80L/mim
Battery	30mins	
Temp	31~37°C(7 levels adjustable)	31~37°C(3 levels adjustable)
Turbine	YES	YES
Accuracy of O2	±3%	±3%
SpO2	COMEN, MASIMO, NELLCOR	×
Trend	7 days (168h) graphical and tabular trend	×
Auxiliary O2 supply	V	X
Timer	V	×











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COMON VS yuwell 鱼跃

COMON VS YUWell 鱼跃

COMON

Specification	NF5	HF-75A
Picture		
Screen size	4.3 inch touch screen	7 inch touch screen
Flow rate	2-80L/mim	2-75L/mim
Battery	30mins	
Temp	31~37°C(7 levels adjustable)	31~37°C
Turbine	YES	YES
Accuracy of O2	$\pm 3\%$	-
SpO2	COMEN, MASIMO, NELLCOR	
Trend	7 days (168h) graphical and tabular trend	
Auxiliary O2 supply	V	
Timer	V	

COMON VS yuwell 鱼跃



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