



NOCCARC V310

VENTILATOR

With
Integrated
HFNC

Easy to use Reliable Versatile



Noccarc V310 offers an advanced, compact yet reliable ICU ventilation solution. Carefully crafted with the combination of cutting edge research and advanced manufacturing technologies, the turbine based design enables highly efficient independent operation and a wide range of ventilation modes, including High Flow Nasal Cannula.

The IOT enabled system allows central data monitoring and logging remotely making **Noccarc V310** an accessible easy to manage option for the health professionals in the current case of Covid-19 pandemic.



Modes of Ventilation

Volume Controlled Ventilation	VC-CMV VC-AC VC-SIMV PRVC-CMV PRVC-AC PRVC-SIMV
Pressure Controlled Ventilation	PC-CMV PC-AC PC-SIMV
Spontaneous Breathing Support	PS/CPAP (PSV) with Apnea Backup Ventilation APRV HFNC
Therapy type	Invasive Ventilation Non-invasive Ventilation (NIV) O2 therapy
Types of Patients Supported	Adults and Paediatric
Apnea Backup Ventilation	
Hign Flow Nasal Oxygen Therapy	

Technical Specifications

Respiratory Rate (RR)	1- 60 BPM
Peak Inspiratory Pressure	60 cm H ₂ O
PEEP	0- 40 cm H ₂ O
Pressure Support	0- 50 cm H ₂ O
Inspiratory Time (Ti)	0.2-5 s
PEEP	0- 50 cm H ₂ O
I:E Ratio	1:6 to 6:1
Tidal Volume (VT)	50- 2000 mL
Inspiratory Flow Rate	280 L/min (Internally restricted to 160 L/min)
Trigger Flow Sensitivity	1- 20 L/min
Volume Accuracy	2- 3% of full scale between 10 L/min- 80 L/m
O ₂ concentration (FiO ₂)	21- 100 %
FiO ₂ control	Closed loop electronic manipulation
Recruitment Tools	Inspiration Hold
	Expiration Hold
Leak Detection and Compensation	YES
SIGH	Programmable
O ₂ Therapy	Continuous flow 0- 100 L/min
	Concentration 21- 100 %
Nebulizer	for 5, 6, 7, 8, 9, 10 minutes
	Synced with Inspiratory Phase
Oxygen Input	45- 60 PSIG
Screen	10" TFT LCD Touchscreen
Dimensions Patient Unit	395 X 340 X 255 mm
Weight	~ 10.1 Kg Patient Unit
	~ 25 Kg with trolley
Battery	Lithium, Internal
Battery Back-up Time	Upto 8 hours
Mains Input	200- 240V AC, 50- 60 Hz
Input Current	<2.00 A
Power Consumption	<150W

Compliant with IEC 60601-1 Standard

Monitored Parameters

Pressure Measurements	Peak Inspiratory Pressure (PIP) Positive end Expiratory Pressure (PEEP) Plateau Pressure (Pplat) Driving Pressure Mean Pressure (Pmean) Range: 0 to 100 cm H2O
Flow Measurements	Expiratory minute Volume (MVe) Inspiratory minute Volume (MVi) Spontaneous Expired minute Volume (Spont. MVe) Range 0 to 160 L/nin
Volume Measurements	Inspiratory Tidal Volume (VTi) Expiratory Tidal Volume (VTe) Total Leak Volume
Other Measurements	Oxygen Concentration (FiO2) Respiratory Rate (RR) I:E Ratio Rapid Shallow Breathing Index (RSBI) Static Lung Compliance (Cstat) Dynamic Lung Compliance (Cdyn) Inspiratory Time (Ti) Expiratory Time (Te)
Trends	Storage of trends for last 48 hours of all parameters

Graphic Mode with Display

Flow vs Time

Pressure vs Time

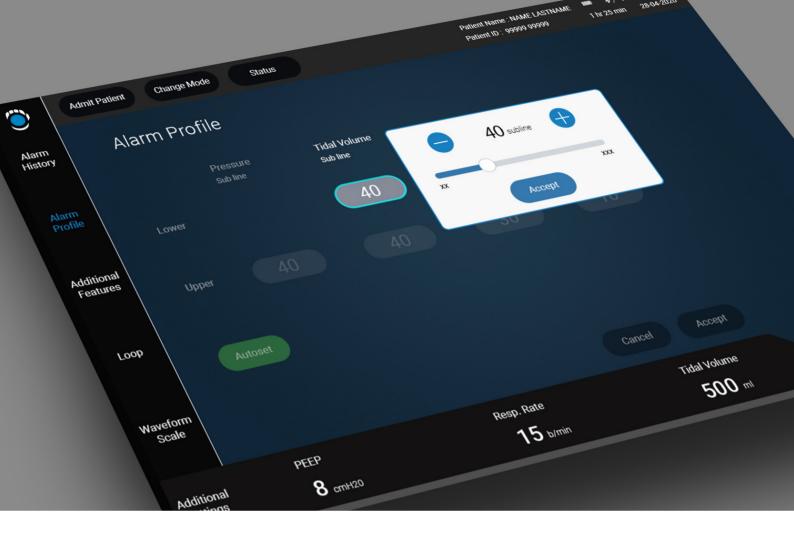
Volume vs Time

Pressure-Flow Loop

Pressure-Volume Loop

Volume-Flow Loop





Alarms for Device and Patient Safety

Alarms for Patient Safety

PEEP (High / Low)
Respiratory Rate (High / Low)
Tidal Volume (High / Low)
FiO₂ (High / Low)
High Inspiratory Pressure
Patient Disconnection
Battery Low

Alarm Features

Color coded alarms based on priority Adjustable Apnea Alarm time (Tapnea) History of last 200 alarms

Unique Features



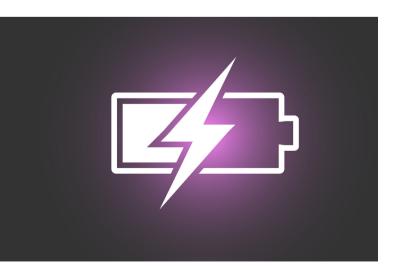
High Flow Oxygen Therapy HFNC Mode

Noccarc V310 HFNC mode when used with humidifier, is capable of delivering up to 100% humidified and heated oxygen at a flow rate of up to 100 LPM. High flow therapy increases alveoli recruitment and delivers high ${\rm FiO}_2$, while offering increased patient comfort.

UV-C Decontamination Chamber

The UV-C decontamination chamber mitigates the risk of transmission of airborne diseases by reducing the bacterial and viral load going into the ICU atmosphere from patient exhaled air.





8 Hours Battery Backup

Noccarc V310 is a powerful turbine based ventilator with a battery backup of upto 8 hours. The compact, independent and power efficient design enables it to operate without compressed medical air or compressor, making it ideal for ICUs as well as transport.



Inbuilt Programmable Nebulizer Synced with Inspiratory Phase

Inbuilt programmable nebulizer provides quick and convenient way to administer medication to ventilated patients. The inspiratory phase synchronization algorithm reduces medication loss during expiration, and precisely delivers set tidal volume.

10 inch Touchscreen with User-friendly Interface

The integrated 10 inch Touchscreen Interface provides great monitoring and controlling capabilities. The customized interface is designed considering inputs from healthcare professionals and has been created for quick, easy and intuitive usage. A screen lock feature prevents accidental changes.



IoT Enabled Central Data Monitoring and Logging*

Central monitoring system incorporates innovative features such as flexible trending and display capabilities, advanced alarm management and cloud data logging. Combined with a user friendly web interface with seamless networking system via wireless LAN, Noccarc V310 offers safe and manageable control for healthcare professionals.

* Central monitoring system is not included with the ventilator and has to be ordered separately.

Testimonials











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