



NOCCARC V310

VENTILATOR

With
Integrated
HFNC

Innovative Reliable Indigenous Safe.



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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** a much safer and easy to manage option for the health professionals in the current case of Covid-19 pandemic.

NOCCARC V310



Modes of Ventilation

Invasive and Non Invasive:

PC-CMV, PC-AC, PC-SIMV, VC-CMV, VC-AC, VC-SIMV, PRVC-CMV, PRVC-AC, PRVC-SIMV, PS/CPAP (PSV), APRV

High Flow Nasal Cannula (HFNC mode)

Quick Ventilation Mode for Emergency Use

Apnea Backup Ventilation

Technical Specifications

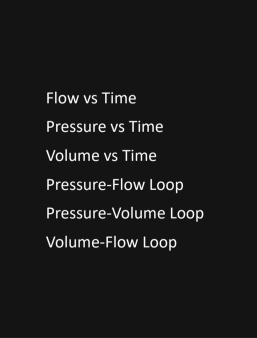
Peak Pressure	60 cm H ₂ O
Peak Respiratory Rate	Upto 80 BPM
Inspiratory Time	0.2 - 5s
Tidal Volume	50 - 2000 ml
Peak Flow Rate	280 SLPM (Internally restricted to 160 SLPM)
PEEP	0 - 40 cm H ₂ O (Increments of 1 cm H ₂ O)
Pressure Support	0 - 50 cm H ₂ O
Inspiratory Hold	✓
Expiratory Hold	✓
I:E Ratio	1:6 to 6:1
Trigger Flow Sensitivity	1 SLPM - 20 SLPM
Volume Accuracy	2-3 % of the full scale between 10 LPM - 80 LPM
Leak Detection and Compensation	✓
Quick Ventilation Mode for Emergency Use	✓
Programmable SIGH	✓
Electronic FiO ₂ Manipulation	✓
FiO ₂ Manipulation between 21% to 100%	✓
FiO ₂ Delivery Independent of Flowrate, PEEP and Minute Volume	✓
Dimensions	395 X 340 X 255 mm
Weight	10.1 Kg
Oxygen Input Pressure	45 - 60 PSIG
Battery Type	Lithium Ion

Certifications : IEC60601-1 Compliant (*Tested at NABL accredited laboratory*)

Monitored Parameters

- Peak Inspiratory Pressure (PIP)
- Peak End Expiratory Pressure (Auto PEEP)
- Plateau Pressure
- Inhaled and Exhaled Tidal Volume
- Oxygen Concentration (FiO, %)
- Respiratory Rate
- I: E ratio
- Driving Pressure
- Mean Pressure
- Exhaled and Inhaled Minute Volume
- Spontaneous Minute Volume
- Total Leak Volume
- Rapid Shallow Breathing Index (RSBI)
- Static and Dynamic Lung Compliance
- Inspiratory and Expiratory Time
- Display trend values for 48 Hrs for all the above parameters

Graphic Mode with Display







Alarms for Device and Patient Safety

- Power Disconnected
- Patient Disconnected
- High Inspiratory Pressure
- High & Low PEEP
- High & Low Respiratory Rate
- High & Low Tidal Volume
- High & Low FiO, %
- Power Sensor Failure
- Read/Write Error
- Ventilator Temperature Error
- System Failure (Safe Mode)
- Alarm History of 200 Alarms

Unique Features

10 inch Touchscreen with User-Friendly UI

The integrated 10 inch Touchscreen Interface provides great monitoring and controlling capabilities. The proprietary UI is designed in accordance with inputs from medical professionals and has been designed for quick and easy usage, with provisions for all types of scenarios.



High Flow Nasal Cannula (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 FiO₂, while offering increased patient comfort.

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.



UVC Decontamination Chamber

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



Battery Backup upto 8 Hours

Noccarc V310 is a powerful turbine based ventilator with a battery backup of upto 8 hours. Its compact, independent and power efficient design makes it an ideal ICU as well as transport ventilator.

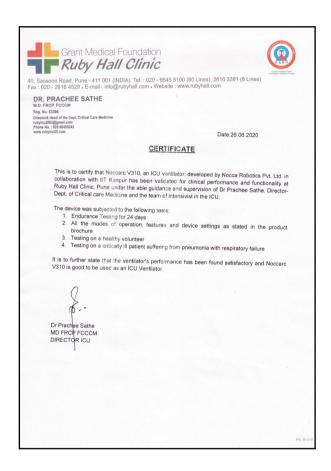
IoT Enabled Central Data Monitoring and Logging*

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.

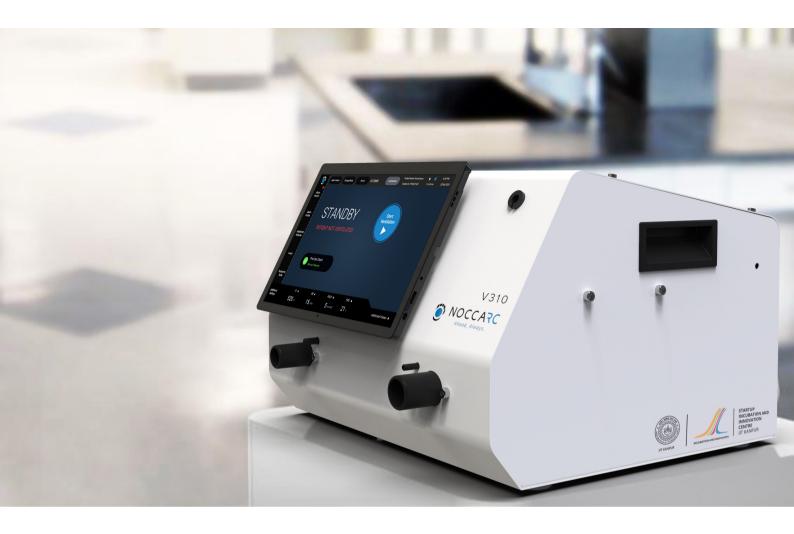


* Central monitoring system is not included with the ventilator and has to be ordered separately.

Testimonials







Designed and Developed by



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Technology Partner





STARTUP
INCUBATION AND
INNOVATION
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IIT KANPUR

NOCCARC V310 Revision Date : 03/07/20