





NOCCARC V310

With Integrated HFOT

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 Oxygen Therapy.

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

Types of Patients Supported		Adults and Paediatric	
Therapytype		Invasive Ventilation Non-invasive Ventilation (NIV) O ₂ therapy	
	Volume Controlled Ventilation	VC-CMV PRVC-CMV VC-AC PRVC-AC VC-SIMV PRVC-SIMV	
Invasive Modes	Pressure Controlled Ventilation	PC- CMV PC-AC PC- SIMV	
	Spontaneous Breathing Support	PSV with Apnea Backup Ventilation APRV	
Non-Invasive Modes	1	PS/CPAP with Apnea Backup Ventilation Duo-Vent	
O ₂ Therapy		HFOT (High Flow Oxygen Therapy)'	*

*HFOT accessories are not included with the ventilator and have to be ordered separately.



Technical Specifications

Respiratory Rate (RR)	1- 60 BPM
Peak Inspiratory Pressure	$60 \mathrm{cm}\mathrm{of}\mathrm{H_2O}$
PEP .	0- 50 cm of H_2O
Pressure Support	0- 50 cm of H ₂ O
Inspiratory Time (Ti)	0.2- 10s
l:E Ratio	1:6 to 6:1
Tidal Volume (VT)	50- 2000 mL
Inspiratory Flow Rate	280 L/min (Internally restricted to 160L/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	Upto 200 ml
O ₂ Therapy	Continuous flow 0- 100 L/min
	Concentration 21- 100%
Oxygen Input	45-60 PSIG
Screen	10" TFTLCDTouchscreen
Dimensions Patient Unit	395 X340 X255 mm
Weight	~ 10.3 KgPatient Unit
	~25 Kgwith trolley
Battery	Lithium, Internal
Battery Back-up Time	Upto 8 hours
Mains Input	200- 240V AC, 50- 60 Hz
InputCurrent	<2 00 A
	2.0077

Compliant with IEC 60601-1 Standard IEC 60601-1-2 Standard



NOCCARC V310

Monitored Parameters

Pressure Measurements	Peak Inspiratory Pressure (PIP) Positive end Expiratory Pressure (PEEP) Plateau Pressure (P _{plat}) Mean Pressure (P _{mean}) Range: 0 to 100 cm H ₂ O
Flow Measurements	Expiratory minute Volume (M_{Ve}) Inspiratory minute Volume (M_{Vi}) Spontaneous Expired minute Volume (Spont. M_{Ve}) Range 0 to 160 L/min
Volume Measurements	Inspiratory Tidal Volume (V _{Ti}) Expiratory Tidal Volume (V _{Te}) Total Leak Volume
Other Measurements	$ \begin{array}{l} \text{Oxygen Concentration (FiO}_2) \\ \text{Respiratory Rate (RR)} \\ \text{I:E Ratio} \\ \text{Rapid Shallow Breathing Index (RSBI)} \\ \text{Static Lung Compliance (} C_{\text{stat}}) \\ \text{Dynamic Lung Compliance (} C_{\text{dyn}}) \\ \text{Inspiratory Time (} T_i) \\ \text{Expiratory Time (} T_e) \end{array} $
Trends	Storage of trends for last 96 hours of all parameters

Graphic Mode with Display

Flow vs Time Pressure vs Time Volume vs Time Pressure-Flow Loop Pressure-Volume Loop





NOCCARC V310



Alarms for Patient and Device Safety

Alarms for Patient Safety	PEEP(High / Low) Respiratory Rate (High / Low) Tidal Volume (High / Low) FiO ₂ (High / Low)
	Algn Inspiratory Pressure Patient Disconnection
	Battery Level (Low/ Critically Low)
	Turbine Temperature (High/ Critically High)
Alarm Features	Color coded alarms based on priority
	Adjustable Apnea Alarm time (T _{apnea})
	History of more than 500 alarms
	Dual buzzer



Unique Features



High Flow Oxygen Therapy HFOT Mode

Noccarc V310 HFOT 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 FiO_2 , while offering increased patient comfort.

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.





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 intra hospital transport.



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Unique Features



Non-Invasive Ventilation (NIV)



Noccarc V310 PSV mode stabilizes the patient's spontaneous breathing and reduces ventilation support. PSV modes provide a comfortable environment, enabling a seamless transition from controlled ventilation to patient contribution.



Advanced Therapy

Noccarc V310 APRV mode facilitates spontaneous breathing by delivering continuous airway pressure with brief releases. The dual level supported breaths can help improve oxygenation and protect lungs against compliances.



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Certificates and Testimonials

TC-5237	
TUV India Pvt: Ltd, Anjani Palladium, 203 & 204, Se 104b, Survey No.126/1, Baner M Tel No: +(91) 20-67/113113 Website : www.tuv-nord.com	cond Floor And Mezzanine Floor, Jain Road, Baner, Pune 411045, Maharashtra, India.
Report No: TUV/PTL/20-21/SF	TY/0059 Date of issue: 31.10.2020
ULR No: TC523720000000070	F
1. Job Card No.	: TUV/20-21/SFT/0049
2. Job Order No.	: 8118661658
3. Sample ID	: TUV/PU201026-001
4. Service Requested by	Nocca Robotics Pvt. Ltd. BGP 10/12, BSNL Chowk, MIDC Bhosri, Pune-411026
5. Report Issued to	Nocca Robotics Pvt. Ltd. BGP 10/12, BSNL Chowk, MIDC Bhosri, Pune-411026
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Rep	prt No.: TR/EMC/65020	TEST REPORT	Г	Page 01 of 15
. Sci	ppe			
1.	Service request number:	65020	Date: 14/08/2020 J	ob No.: 01
2.	Test requested by (Name & Address of the Organization)	M/s. Nocea Roboties Pvt. Ltd. #Plot No: BGP 10/12, BSNL Chowk, MIDC Bhosari, Pune -411026.		
3.	Description/Unambiguous identification	on of the item:		
	a) Nomenclature	ICU VENTIL	ATOR	
	b) Manufactured by	M/s. Nocca Re	botics Pvt. Ltd.	
	c) Model / type no.	V310		
	d) No. of items submitted	01 Sampling Not applicable		
	e) Serial no.	P22CAHN10064		
4.	Date of submission of test samples	14/08/2020		
5,	Condition of test samples on receipt	Good		
6.	Test carried out at	In-house/On-site		
7.	Date of start of tests	19/08/2020		
8.	Date of completion of tests	25/08/2020		
9.	Date of issue of test report	07/09/2020		
10.	Applicable standard/test specification	IEC 60601-1-2 Ed 4.0:2014		
11	Test category	Performance Test		
12.	Laboratory Environment condition	Temp: 15 to 35°C & RH: 30 to 75%		
Ma	jor equipment used			
SN	Nomenclature	Make	Model	Cal. Due
2	Bi-Log Antenna	Flectro metric	5 EM-6917B-1	03/07/2021
2	Vector Signal generator	R&S	SMRV100A	27/09/2020
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For enquiries or orders contact Channel Partner:

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