Respiassist

Next-Generation NIV Solutions for NICU & PICU

Respiassist Series

RESPIASSIST ADVANCE

KHC

Respiassist

Respiassist Advance

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Smart Ventilation, Safe Breath:
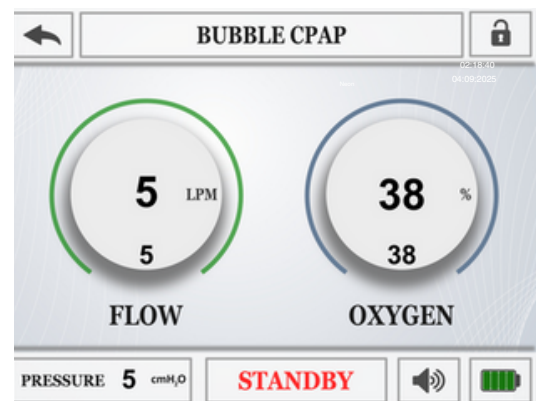
Respiassist Series isa complete Non-Invasive Ventilation (NIV) device, thoughtfully designed and manufactured by Kyron Healthcare Pvt. Ltd. Built for both NICU and PICU environments, it is compact, economical, effective, and easy to use. Bringing next-generation respiratory therapies to patient care, Respiassist ensures precise treatment through advanced electronic blending technology, delivering accurate control of both oxygen concentration (FiO_2) and breathing gas flow.

Key Highlights (USP)

- 5" inch Color Display with touchscreen 8"inch Color Display with
- touchscreen & rotating knob Complete NIV solution with multipl
- therapies. Suitable for neonatal and pediatric patients. Large,
- user-friendly touch screen. Automatic pressure control module.
- Continuous, real-time measurement of FiO_2, flow and pressure.
- Up to 4 hours battery backup in case of power failure. Built-in
- advanced blower to provide consistent air supply. Smart alarm
- with multi-color coded audio and visual alarm. Safety filter
- attachable to hose pipe. Compatibl
- e with standard patient circuits. Low power, energy-efficient
- design.
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Respiassist

Respiassist Advanced

integrated Display gives complete information about real time data and set parameters

Respiassist : Therapy Modes

Respiassist Series Ventilator System helps reduce complications associated with non- invasive ventilation and tracheal intubation. Non-invasive ventilation is now widely adopted in NICUs, and this system supports it with a comprehensive NIV mode that delivers complete respiratory assistance to meet diverse neonatal respiratory care needs.

Bubble CPAP (in all Models)
Bubble CPAP
The BubbleCPAP mode provides stable and accurate FiO_2 and flow delivery, supporting proper lung expansion and better oxygenation.

HFNC (in all Models)
High-FlowNasalCannulaOxygen Therapy
HFNC mode delivers warmed and humidifiedoxygen at high flows via a nasal cannula. This supports better oxygenation and lowers breathing effort by flushing out upper airway CO_2, generating positive pressure, and ensuring high oxygen delivery with optimal comfort.

nCPAP (in all Models)
NasalContinuousPositiveAirway Pressure
InnCPAP mode, constant pressureisdelivered via a nasal mask or prongs to maintain airway patency and enhance breathing efficiency.

nIPPV (Only in Respiassit Pro)
NasalIntermittent Positive Pressure Ventilation (nIPPV) provides pressures as high as 40 cmH_2O, allowing effective pressure delivery for various neonatal respiratory support requirements.

nSIPPV (Only in Respiassit Pro)
NasalSynchronized Intermittent Positive Pressure Ventilation (nSIPPV) incorporates synchronization technology that improves alignment between the patient's breathing and the ventilator, providing comfortable, seamless breaths at pressures up to 40 cmH_2O.

Powerful monitoring & Utilities
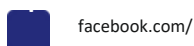Precisemonitoringensuresaccuracyand safety.

Additional Clinical Benefits
- Reduces needfor invasive ventilation
- Improves patient–ventilator synchrony
- Supports all levels of neonatal respiratory distress
- Enhances oxygen stability and reduces apnea episodes
- Maintains optimal lung expansion with gentle pressure delivery
- Minimizes risks of volutrauma, barotrauma, and nasal injury

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Accessories & Compatibility
- Humidifierchamber
- Heated wire circuit
- Bubble generator bottle
- RAM cannula options
- HME filter

Technical Specifications

Modes	Respiassist	Respiassist Advanced	Respiassist Pro
nSIPPV (Nasal Synchronized Intermittent Positive Pressure Ventilation)			☑
nIPPV (Nasal Intermittent Positive Pressure Ventilation)			☑
nCPAP (Nasal Continuos Positive Airway Pressure)	☑	☑	☑
bCPAP (Bubble CPAP)	☑	☑	☑
HFNC/O2- High Flow Nasal Cannula Oxygen Therapy	☑	☑	☑
Features			
Electronic Air-Oxygen Blending Technology Leak Compensation	☑	☑	☑
FiO2 Measurement	☑	☑	☑
Colour Display	☑	☑	☑
Battery Back Up	☑	☑	☑
Trigger			☑
Display Monitored Parameters	☑	☑	☑
Alarm (FiO2, Low Pressure, AC Power Fail, Battery Low/Disconnect)	☑	☑	☑
Freq High/Low	☑	☑	☑
Monitoring Parameters			
FiO2, Flow,Pressure	☑	☑	☑
Setting Parameters			
Flow	4-25/40 LPM	4-60 LPM	
FiO2	21-100%	21-100%	21-100%
PIP			1-40cm H2O
PEEP	1-10cm H2O	1-10cm H2O	
Trigger			0 to 10 L/min
General Specifications			
Dimensions/Weight	271x164x216cm		
Display	5"inch Touch Display	8"inch Touch Display with rotating Knob	8"inch Touch Display with rotating Knob
Oxygen Gas supply	230 kPa to 600 kPa	230 kPa to 600 kPa	230 kPa to 600 kPa
Air Supply	Inbuilt Medical Grade Turbine	Inbuilt Medical Grade Turbine	Inbuilt Medical Grade Turbine
Power Supply	100-265V AC, 50/60Hz,1A,100 VA,	100-265V AC, 50/60Hz,1 A,100 VA,	100-265V AC, 50/60Hz,1A,100 VA,
Battery	Upto 3 hrs	Upto 4 hours	Upto 4 hours
Safety Standard			
Basic Construction	In accordance with IEC 60601-1, IEC 60601-1-2 & EMC 60601-2		
Unit Type	Class 1, Type B, IP21		
Working Environment	Temperature : 10 To 50°c		
Relative Humidity	10 to 90% Non Condensing		
Atmospheric Pressure	50 to 106 kPa		

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Name You Can Trust