

Freedom⁺®

HELP THEM BREATHE ON THEIR OWN



NISPPV

NIPPV

NCPAP

BCPAP

OnCPAP

High Flow



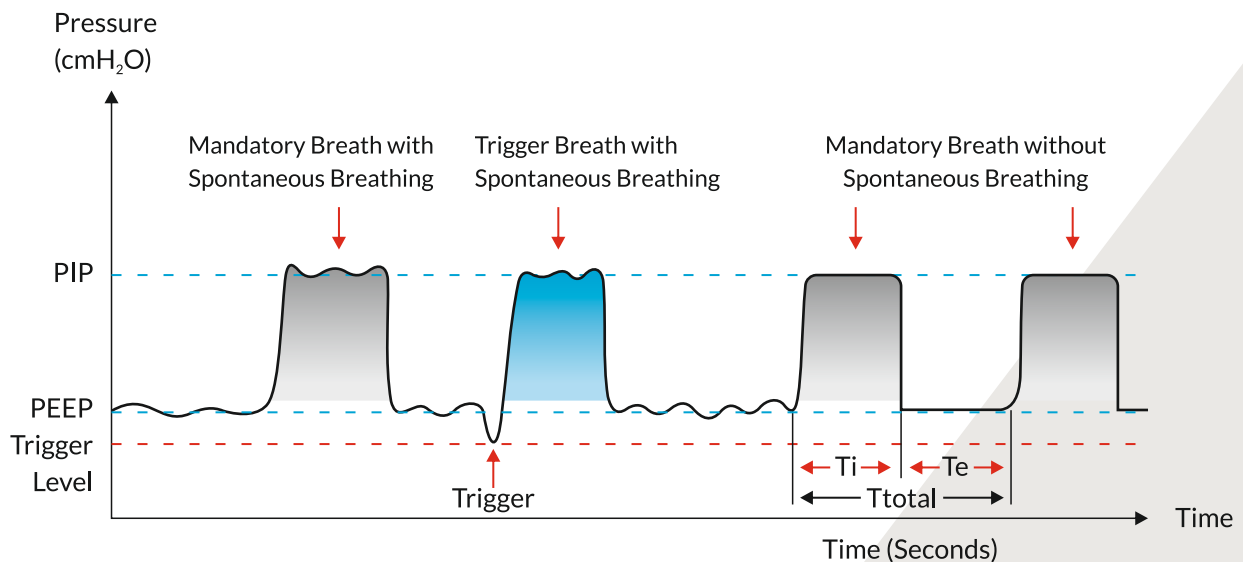


The Freedom Plus +[™] is a versatile device designed and manufactured by Optimedics LLP in collaboration with technology partner company Medicotek LLC, USA. The goal is to provide multiple therapies to different age group by a single device. The accurate delivery of Fio₂, flow and pressures has been assured by electronic blending inside the device which consist of highly precise flow sensors, pressure sensors and proportional control valves mechanism.

FEATURES

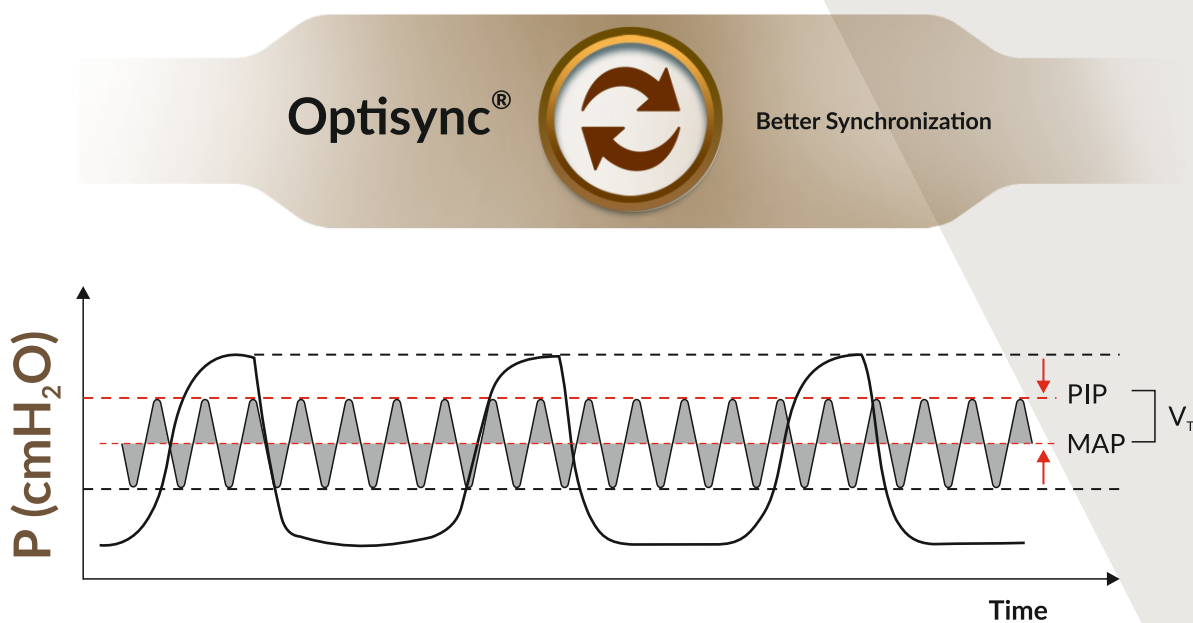
- Multiple noninvasive therapies in one device
- Continuous real-time pressure, Flow, and Fio₂ measurement
- Servo control electronic blending mechanism for controlling pressure, flow, and Fio₂
- Different from Other NCPAP it adapts the flow in order to maintain CPAP pressure for varying leaks because of uncontrolled baby movements
- High-frequency non-invasive CPAP (OnCPAP) mode for effective CO₂ elimination
- Alarm settings for high and low delivery of pressures, and breath rate
- Can be used with most of the Patient circuits and interfaces available in the market
- Universal airway connector ports to connect almost any connectors in the market
- Electronic safety valve inside ensures the safety of the patient in case of higher pressures in the circuit
- High visibility graphics display lets you monitor from a distance
- Works on internal battery for more than 3 hours
- Apnea detection and back up ventilation





Pressure Graph

For all non invasive respiratory therapies sensing the patient's true efforts and triggering the breath is always a challenge because of variable leaks and baby movements. Optisync® technology and specialized algorithm is designed in a way that it optimizes triggering the patient's breath in varying conditions and hence to provide better synchronization between patient's efforts and delivery of breath.



- Non-Invasive High-Frequency oscillatory CPAP
- Continuous mean airway pressure
- Better Co₂ Elimination
- Reduces Lung injury
- Help enhancing alveolar recruitment
- No need for patient synchronization



High-resolution graphics display

Real-time measured parameters with waveforms and numeric values



Alarms for therapy disruptions increases patient's safety



Easy to operate



SELECT YOUR DEVICE

This non invasive ventilator has got two versions, "**Freedom Plus[®]**" and "**Freedom Plus Advance[®]**" to met the various demands of clinicians for treating the various clinical situations of patients.

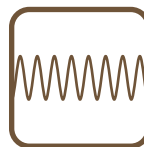
Ventilator Modes	Freedom Plus [®]	Freedom Plus Advance [®]
BCPAP (Bubble CPAP)	✓	✓
NCPAP (Nasal CPAP)	✓	✓
HFNT (Hight flow Nasal Therapy)	✓	✓
NIPPV (Non-invasive positive pressure ventilation)		✓
NISPPV (Non-invasive synchronised positivepressure ventilation)		✓
OnCPAP (Non-Invasive high-frequencyoscillatory CPAP)	✓	✓

Features	Freedom Plus [®]	Freedom Plus Advance [®]
Electronic blending technology	✓	✓
Leak compensation	✓	✓
FiO2 measurement	✓	✓
Colour display	✓	✓
Battery back up	✓	✓
Trigger	✓	✓
Apnea monitoring in NCPAP	✓	✓
Back up ventilation		✓
Display monitored parameters	✓	✓
Alarms	✓	✓



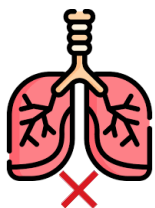
NISPPV

In Non-invasive synchronize ventilation mode, the patient's effort will be sensed and supported by the ventilator.



OnCPAP

In OnCPAP High frequency Oscillations with CPAP can be delivered non invasively with binasal prongs or mask.



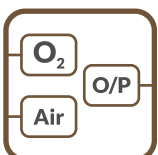
Apnea Detection

Patient's active efforts are detected by the machine and in case of patient stops breathing, an apnea alarm will be generated, and Backup ventilation will be delivered*



Optisync

With Optisync technology, the baby's spontaneous effort will be detected and patient's breath will be synchronized even in varying leak condition.



Electronic Blender

Accurate and precise delivery of flow and Fio2 will be assured by electronic blending mechanism.



High Flow O2 Therapy

High Flow Oxygen can be delivered through High Flow Nasal cannula at the set flow rate and FiO2 percentage.

* Available only in F. P. Advance.



130 cm

50 cm



30 cm

22.5 cm

Standards & Test Certification

Classification of EC	Class II b
IEC Certification	60601-1, 60601-2, 60601-1-8, 80601-2-12
IP Class	IP 21
Testing	EMI/EMC and safety testings done by TUV Rheinland
Quality Standards	ISO 13485 : 2016
Other Compliance	IEC 62366 (Usability Engineering), IEC 62304 (Software in medical device), ISO 14971 (Risk Management)



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