

HekaFlo®

HM-P-500

High Flow Nasal Oxygen
Therapy Device

World's first IoT enabled HFNC device
with remote patient monitoring



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RESPIRATORY SUPPORT SYSTEM
FOR THE TREATMENT OF
ACUTE HYPOXEMIC
RESPIRATORY FAILURE



#startuptingja



Kerala State
Startup Development
Corporation Ltd.



C-CAMP

HEKA

An ISO 13485 & ICMED 13485 Certified Company

HekaFlo HM-P-500 is designed to conform to the requirements of International standards
IEC 60601-1 : General requirements for basic safety and essential performance of Medical Device
IEC 60601-1-2 : General requirements for basic safety and essential performance - Electromagnetic disturbances - Requirements and tests



FLOW

2-60 L/Min



HUMIDIFIER

R.H. 100%



TEMPERATURE

31°C-37°C



MONITORING

SpO₂, Pulse Rate



O₂ BLENDER

21-100%



MODE

Adult/Junior





Remote Patient Monitoring

HEKAFLO WEB DASHBOARD

HekaFlo's web portal dashboard shows the patient data from multiple devices in a single window as tiles. Patient's Name, Age, current flow rate, temperature, FiO2, SpO2, pulse rate, Pulse Oximeter connection status will be displayed in the dashboard. Any user defined or system alerts generated from the device will be displayed as well.



NATIVE IOS/ANDROID APPS

HekaFlo mobile app is designed to view patient's data remotely in real-time. The iOS/Android app can be downloaded from the Apple store/Google play store. Once you log into the mobile app, it will show all the devices registered in your name. Upon selection of the device you can see all the data associated with that device including patient name, age, flow rate, dew point temperature, FiO2, SpO2 and pulse rate. Any alerts generated from the device will be displayed on the mobile app as well.



CHART VIEW & REPORTS VIEW

The chart view shows the real time view of Flow, FiO2 and SPO2 for each patient graphically. Any fluctuation in flow, FiO2 or SpO2 is clearly visible in this view. Reports view shows the aggregated data for each patient over a period. The HekaFlo analytical engine aggregate second by data to minute-by-minute data and shows the matrix in different time intervals. Physicians can graphically view the SpO2 changes and the parameters influencing that change. The filtered data from the reports can be exported in CSV or Excel for further analysis and research.



Clinical uses

- » Hypoxemic respiratory failure
- » Post surgical patients with respiratory distress
- » Weaning off from mechanical ventilatory support
- » Viral bronchiolitis in children
- » Mild to moderate pneumonia
- » Sepsis with respiratory distress
- » Acute pulmonary edema
- » Bronchial asthma

- » Mild exacerbation of COPD with secretions
- » Pulmonary fibrosis
- » Palliative care
- » Weaning via tracheostomy
- » Home oxygen therapy for interstitial lung disease, bronchiectasis
- » Oxygenation during endoscopic procedures
- » Pre-oxygenation for intubation

What is included in the package

HekaFlo HFNC main unit
Heated breathing circuit
Nasal cannula (Medium size)
Auto feed humidification chamber
Adaptor for water chamber
Air filter

Oxygen tube
Power cord
Flow meter (0-70 LPM)
Pulse oximeter (Bluetooth)
User manual



Technical specs

Flow rate range	2-60 LPM
FiO2 range	21-95%
Flow rate accuracy	± 5%
FiO2 accuracy	± 5%
Temperature & Humidity sensor accuracy	± 0.5 °C
Main supply	230 ± 10V 50Hz
Weight of the device	2.8 KG
Length of the power cord	2 M

Humidifier	
Dew point temperature	31°C – 37°C
Relative humidity	90 % - 100 %
Pulse & SPO2	
SpO2	Detection scope: 35%-100% Accuracy: ±2% 80%-100% ±3% 70%-79%
Pulse rate	Range: 25-250BPM Accuracy: ±2bpm Resolution: 1bpm
Pulse oximeter	Bluetooth: 4.0 Battery type: Two 1.5V AAA Service life: Over 10000 times