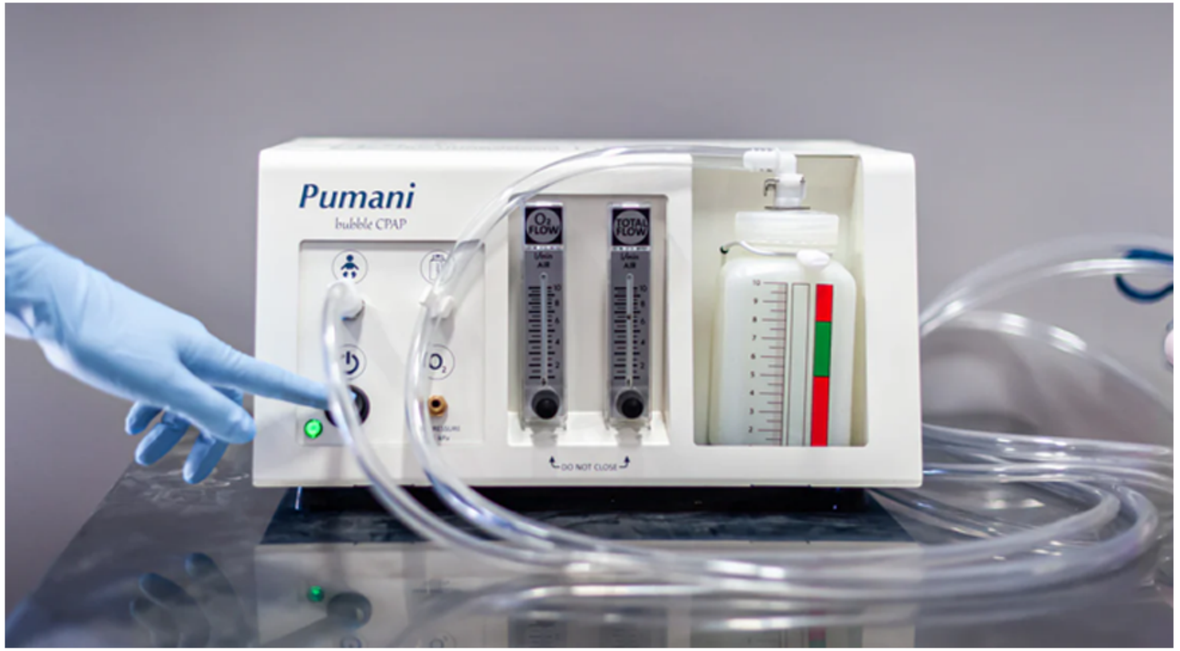
NICOSAM
HEALTHCARE LTD



HATCH
TECHNOLOGIES
Delivering Lifesaving Solutions for Newborns

PRODUCT CATALOGUE

info@nicosamhealthcare.com
www.nicosamhealthcare.com
Plot 1628, Block 215, Kulambiro
Najjera Rd, Kyadondo, Uganda



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Pumani bubble CPAP

The Pumani bubbleCPAP is used to treat respiratory distress syndrome (RDS) in premature neonates and respiratory illness in young children from 1 to 10 kg. Designed specifically for the low-resource hospitals, it is an effective, affordable and user-friendly solution currently in use in over 35 countries around the world.

SPECIFICATIONS

Oxygen blending	21-90%
Gas supply	Integrated air compressor
Total (blended) flow rate	0-10 L/min
Oxygen flow rate	5-8 cmH2O
Voltage	220V and 50Hz
Power consumption	15 W
Shipping dimensions	48cm×38cm × 33cm
Shipping weight	12kg





FEATURES

- Effective and Affordable - Provides the same level of therapeutic pressure as ,other commercial CPAPs for less than one-third of the price
- User Friendly - Set-up training takes less than 5 minutes
- Easy to Maintain - Minimal maintenance, spare parts kit included inside
- Durable - Built and proven to run for years at a time
- Quick setup takes less than 5 minutes.



Diamedica CPAP

A simple to use, low cost, life-saving respiratory solution for preterm babies, neonates and paediatrics. Diamedica's Baby CPAP provides safe controllable bubble CPAP for limited resource settings where the cost of conventional CPAP is prohibitive.

FEATURES

- CPAP 20, twin flowmeters for up to 10 l/min oxygen and 10 l/min medical air
- CPAP 10, twin flowmeters for up to 5 l/min oxygen and 5 l/min medical air
- Self-contained unit generates 95% oxygen and its own medical air
- Humidifier ensures appropriate warmth and moisture for the air and oxygen delivered to the patient
- Voltage protector is fitted to all Baby CPAP machines, protecting the machine from unstable power surges.
- Clear oxygen/air mixing chart allows for easy setting of flow rates
- Inexpensive to run – no need for costly oxygen and air cylinders
- Precision design for simplicity of use, low maintenance and easy servicing
- Designed and engineered and manufactured in the UK, robust and built to last
- CE certified by an internationally recognised notified body



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Vayu Bubble CPAP System

The Vayu bubble CPAP is the world's first and only high-quality infant CPAP system that is able to provide blended oxygen at adjustable concentrations, without the use of any electricity or power.

This system uses only compressed oxygen tank and does not need compressed medical air. Like other bubble CPAP systems, the Vayu CPAP provides non-invasive ventilation in the form of continuous positive airway pressure to spontaneously breathing neonates and infants.



FEATURES

- Pressure: 4-10 cm H2O, adjustable in 1 cm H2O increments
- Blended air/oxygen flow rate: 5-10 LPM
- %O2: 21, 30-100%
- Every device comes with a complete selection of accessories in assorted sizes to last two months. For replace accessories, Vayu bCPAP System Accessories Packs are available

V Series Oxygen Concentrator



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The V8 is a low-cost dual flow 8-liter capable oxygen concentra- tor. Its dual ports can supply steady medical grade oxygen to two patients si- multaneously. The V8 features adjustable flowmeters, a humidifier bottle and durable castor wheels for movement around the NICU.

SPECIFICATIONS

Oxygen concentration	93%±3%
Oxygen flow rate	0-8L/min
Oxygen outlets	Dual flow
Outlet pressure	40-60kPa
Noise level	≤48dB
Voltage	220V±10% and 50±Hz
Power consumption	480W
Shipping dimensions	46cm×40cm × 50cm
Shipping weight	20kg

FEATURES

- High performance and long-lasting durability
- Intelligent, self-diagnosing system
- Easy to read LCD display shows accumulated working hours counter
- Power failure, overheating, and low-pressure alarms
- Bacteria filters

Newlife Airsep Oxygen Concentrator



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The NewLife Intensity is a durable and capable high-continuous -flow stationary oxygen concentrator. This stationary oxygen concentrator combines high pressure – 20 psi outlet pressure – with high flow to create up to 10 LPM of therapeutic oxygen making it ideal for care facilities where higher oxygen flow is necessary. NewLife Intensity 10 LPM dual flow units provide additional savings to facilities with their capability to deliver oxygen to 2 patients simultaneously from a concentrator.

SPECIFICATIONS

Flow type	Continuous
Flow rate	10 LPM
O2 outlet pressure	20 PSI
Oxygen pressure (FiO2)	0-100%
Product weight	58 lbs
Power draw	590 watts
Sound level	55 dB(A)
Oxygen purity	2-9 LPM 92%+3.5/-3% and 10 LPM 90%+5.5/-3%

FEATURES

- Can safely operate in up to 95% humidity
- User Friendly - Set-up
- Simple-to-use controls
- Direct humidifier bottle attachment
- 20 psi outlet pressure

JAY-10 Oxygen Concentrator



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The JAY-10 is an easy to use, dual-flow oxygen concentrator with a 10-liter capacity. The large LCD display enables monitoring of the operating parameters from across the room. The JAY-10 is reliable and provides a continuous supply of oxygen. It features adjustable flowmeters, two humidifier bottles and durable castor wheels.

SPECIFICATIONS

Oxygen concentration	93%±3%
Oxygen flow rate	0.05 -10 L/min
Flow rate resolution	0.5 L/min
Oxygen outlets	Dual flow (2)
Outlet pressure	40-70kPa
Noise level	≤50dB
Voltage	220V±10% and 50±Hz
Power consumption	880W

FEATURES

- Large LCD display for viewing operating parameters
- Compartment on top of concentrator for convenient accessory storage
- Easy to use dial control flowmeters
- Power failure and low oxygen concentration alarms
- Easy to service and maintain

Aspeed Suction Pump

By Omron of Italy



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The 3A Aspeed Suction Pump is a professional unit for clinical secretion aspiration. It features a vacuum regulator, vacuum gauge and a collection container with a protection device to prevent the ingress of liquid into the suction pump. Moreover, the aspirator ensures lifetime lubrication, is easy to handle and simple to use. The Aspeed is reliable,durable, and conveniently silent.

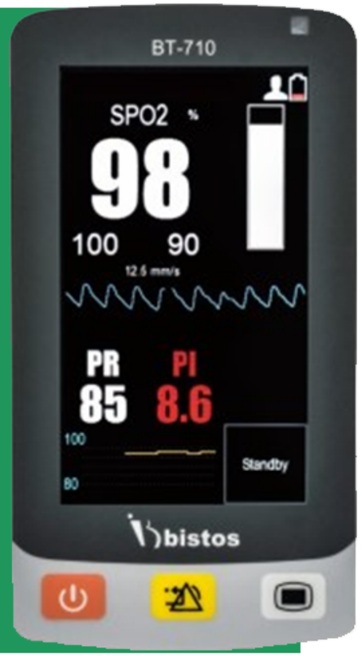
SPECIFICATIONS

Low flow	High vacuum
Total flow	15L/min
Pressure	0-640mmHg
Bottle capacity	1L
Adjustable vacuum level	0±85kPa
Operating cycle	Continuous
Noise level	55dBA
Voltage	230V and 50Hz
Shipping dimensions	42cm38cm19cm
Shipping weight	6.5kg

FEATURES

- High performance and long-lasting durability
- Easy to maintain
- Low operating noise level
- Autoclavable polycarbonate jar with safety valve for overflow protection
- 99% antibacterial hydrophobic filter for maximum protection

BT-710 Pulse Oximeter



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The BT-710 is a handheld pulse oximeter that provides accurate blood oxygen saturation (SpO2) and pulse rate (PR). It features a color LCD touch screen and a re-chargeable built-in lithium-ion battery that provides 8 hours of continuous operation. The BT-710 is suitable for neonates as well as pediatrics and adults.

SPECIFICATIONS

SpO2 measurement range	0-100%
SpO2 Accuracy (70-100%)	Neonate ±3% Adult ±2%
SpO2 perfusion index	0.05%-20%
Pulse rate range	25-250bpm
Pulse rate resolution	1bpm
Battery run time	8 hours
Shipping dimensions	22cm x 18cm x 13cm
Shipping dimensions	2kg

FEATURES

- High performance and long-lasting durability
- SpO2 and Pulse measurements
- Accurate SpO2 performance during motion and low perfusion
- Over 8 hours continuous working on rechargeable lithium-ion battery
- Suitable for neonates, paediatrics and adults

Canta Flow Splitter



SPECIFICATIONS

Flow Meter Calibration	0 - 2 LPM adjustable (5 L/Min for choosing)
Accuracy	0.125 L/Min
Size	270 x 138 x 160mm (L x W x H)
Input Pressure	48-345Kpa
Operation Temperature	5 - 45 °C
Storage Temperature	1- 60 °C
Usage	Connect to oxygen concentrator

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This Oxygen concentrator flow splitter is an assistant to the oxygen concentrator and can provide accurate flowrate to patients simultaneously. It is designed to split the flow of oxygen generated by a single oxygen concentrator into five separate streams, each of which can support an individual patient. The Canta Medical flow splitter for oxygen concentrator is an innova- tive device that offers a convenient solution to hospitals that need to support multiple patients at once.

FEATURES

- It can be used for 5 persons simultaneously
- It can provide an accurate flowrate for each person
- The flowrate of every person can be adjusted separately
- The total flow value cannot exceed the inlet flow value
- 5 Outlets: connected with cannulas for user





BiliDx Bilirubinometer

BiliDx is a bilirubinometer used to measure Total Serum Bilirubin (TSB) in neonates by measuring light transmitted through the serum sampled on a disposable test strip.

It allows nurses and clinicians the ability to get quick and accurate TSB results, so they can manage jaundice treatment without leaving the ward or waiting for external testing. Preliminary studies show that it is more likely that a clinician will make the correct decision using BiliDx than a transcutaneous (TcB) device.

SPECIFICATIONS

Linear range	0.4 to 30mg/dL
Response time	<10seconds
Accuracy	±20% from 5 to 30mg/dL
Resolution	0.1 mg/dL
Sample size required	75µL (Whole capillary blood)
Reagent composition	Does not contain any reagent
Strip shelf life	4 years
Voltage	Input: AC 100-240V(50/60Hz) Output: DC 5V/2.0A
Battery	Rechargeable. Runs~600 tests per charge
Regulatory compliance	CE mark

FEATURES

- Quick Results - Quantitative measurement of TSB within minutes
- Accurate - Consistent, precise readings for clinicians
- Point of Care - No centrifuge or laboratory required
- Simple - Small footprint, portable
- Versatile - Use before, during and after pho-totherapy treatment
- Longevity - Strip shelf life 4-years, up to 600 tests on a single battery charge

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Brilliance Pro Phototherapy



The Brilliance Pro is a low-cost, high-performance device designed to provide effective phototherapy in the NICU. It can be used alongside other critical medical equipment such as infant warmers and incubators, and it is compatible with most bassinets.

The Brilliance Pro has an integrated light meter and sleek look that makes it stand out in any NICU. Its innovative Smart Tilt technolo- gy ensures effectiveness at any position and compatibility with other pieces of neonatal intensive care equipment.

SPECIFICATIONS

Light spectrum	445 to 470nm (peak 451nm)
Bulb lifetime	120,000 hours
Average spectral irradiance	> 40 µW/cm2/nm (±25%)
Effective treatment area	50cm × 25cm
Voltage	100-240V and 50/60Hz
Power consumption	42W
Shipping dimensions	115cm × 75cm × 18cm
Shipping weight	20kg



FEATURES

- Optimal light spectrum for treatment of jaundice
- Height adjustment maximizes skin surface area exposure and suits different bed heights
- Treatment time counter and easy to read display
- Energy efficient, minimal maintenance

Firefly Phototherapy



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The Firefly Phototherapy is an easy-to-use double-sided phototherapy device that can fit in an infant cart or on the mother's bedside. With its LED lights at an optimized non-adjustable angle, it has been proven to reduce total treatment time by 40% compared to the leading single-sided LED phototherapy.

The sealed, curved surface system enables easy cleaning and does not allow dust, bugs or liquid to enter the device, ensuring a long lifetime with no maintenance.

SPECIFICATIONS

Light spectrum	445 to 465nm (peak 455nm
Bulb lifetime	44, 000 hours
Average spectral irradiance	Top>34.8µW/cm2/nm Bottom> 34.8µW/cm2/nm
Effective treatment area	50cm × 25cm
Voltage	100-200V and 47/63Hz
Power consumption	60W
Shipping dimensions	57cm × 43cm × 70cm
Shipping weight	17kg

FEATURES

- Compact form fits in an infant cart or mother's
- Handholds facilitate easy portability
- Curved surfaces for easy cleaning
- Sealed to keep out bugs, dust and liquids
- No moving parts, no internal fans
- Optional 2h or 12 battery back-ups

MTTS Lightmeter (4Meter)



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4-meter is a spectroradiometer that measures the therapeutic irradiance (Radiant power) of neonatal phototherapy lights. It measures the irradiance of the wavelengths from 400 to 520 nanometres (nm), the blue-green portion of the spectrum, which includes the principal action spectrum of bilirubin. The device accounts for cosine correction allowing lighter from different angles.

SPECIFICATIONS

Spectral response	400-520nm
Measurement range	Single 0.1-150.0µWcm2/nm Double 0.1-300.0µWcm2/nm
Resolution & Accuracy	0.1µWcm2/nm & ± -3% of reading
Oxygen sensor (FiO2)	0-100%
Pressure sensor (Pressure)	0-100cmH2O
Flow sensor (Flow)	0-160lpm, bi-directional
Battery	Up to 12h operating time.
Shipping dimensions	148 cm × 73cm × 17cm
Shipping weight	200g

FEATURES

4-meter unit can be connected to the other optional sensors for

- Oxygen measurement
- Flow measurement
- Pressure measurement

Pheonix NWS101 Radiant Warmer



NWS warmers provide radiant warmth to treat infants suffering from severe heat loss. It is suitable for all environments, from labour rooms to neonatal ICUs. It provides quality care at affordable cost. The warmer comes with an option of attached bed or choosing a bassinet of your choice.

SPECIFICATIONS

Measuring temperature range	15°C to 40°C
Accuracy	0.2°C
Resolution	0.1°C
Probe interchangeability	0.2°C
Heater lifetime	12 months
Bassinet tilting	Up to 12 degrees
Power consumption	650W/3.4A
Physical dimensions	105 cm x 78 cm x 190cm
Weight	49kg

FEATURES

- Controlled thermal environment: the quartz heater provides uniform warm rapidly all over the bed.
- T-shaped base slides under other equipment e.g., bassinets.
- Convenient handles
- Soft touch keys, display with back up, and storage drawers.



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Hadli Monitoring System

Hadli is a remote device monitoring system that automatically collects, analyzes, and shares functional status data for medical devices. Hadli reduces the challenges and costs of monitoring equipment usage and allows for data-driven decision making to improve maintenance efficiency and reduce resource demands in clinical sites. Hadli aims to efficiently optimize device uptime, helping to ensure the availability and viability of medical devices.

Plug & Play Installation – seamless integration with medical devices Maintenance Alerts – increases efficiency for technical teams Uptime Optimization – maximizes utilization of medical devices.









Vscan Air™ CL

Vscan Air CL sets a new standard in handheld ultrasound. The wireless dual-probe with curved and linear transducers delivers crystal clear images anytime, anywhere.

Designed for the individual, it's always with you — ultra-portable, cordless, customizable and intuitive. Small and lightweight, Vscan Air goes with you to every patient.

FEATURES

- Wireless dual-probe with curved and linear transducers
- Ultra-portable, cordless, customizable, and intuitive
- Crystal clear images with the power of SignalMax™
- Ideal for abdominal imaging, obstetric assessments, MSK and lungs
- Connects to the Vscan Air app with compatible Android ™ and iOS™ devices



Lumify

Bringing ultrasound capabilities to the palm of your hand, Philips Lumify combines transducers and an ultrasound app to bring diagnostic capabilities to your compatible Android smart phones and tablets. Acquire critical clinical data quickly and easily in more POC scenarios: emergency medicine, critical care, bedside, and office practice.

When you purchase Lumify outright, you get the Lumify transducer(s), the Lumify app, software upgrades, and a manufacturer's warranty. Your purchase also includes a Carry case for your device and transducer.

FEATURES

- App-based ultrasound
- Pulsed wave Doppler with steerable color functionality
- Preset optimization
- Ob/Gyn exams

Neonatal incubator on casters YP-970

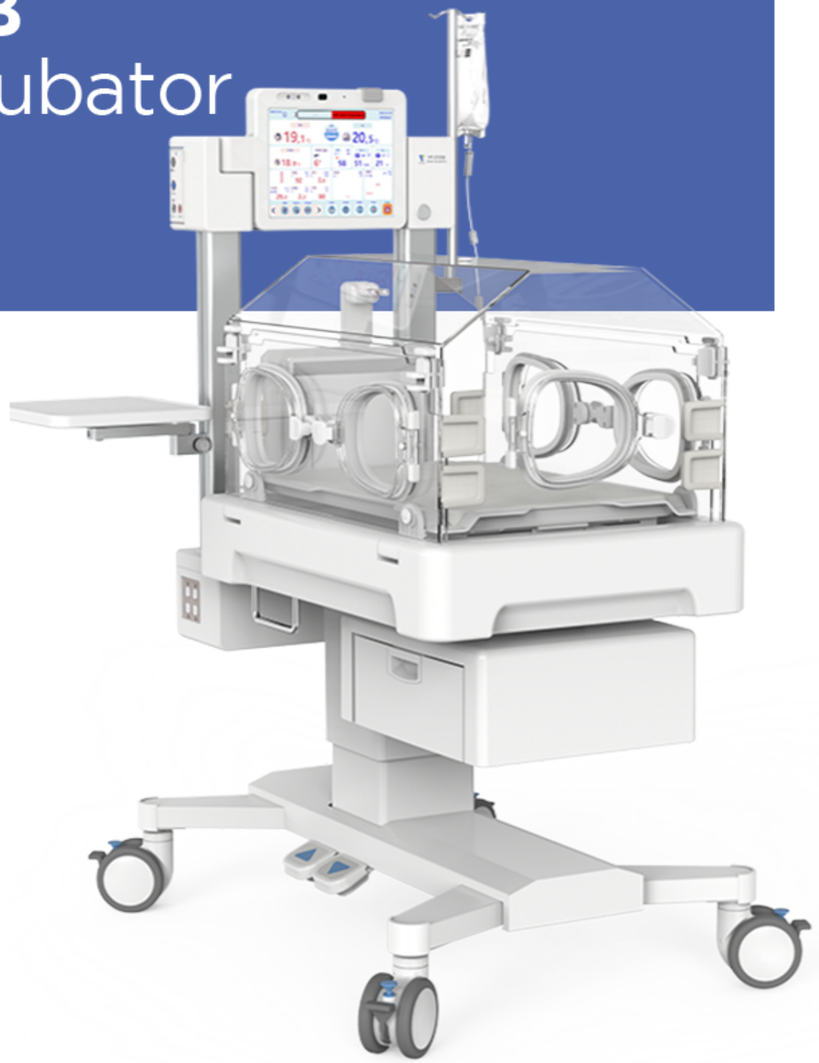


YP-970 is a practically multi-functional infant incubator. Its design is based on the concept of safety, snugness, and simplicity. While keeping temperature constantly stable, it provides humidity and oxygen concentration display and control to allow simpler operation.

BRIEF INTRODUCTION

- Two control modes: Air mode and baby mode controlled by micro-computer;
- Humidity control system
- Oxygen concentration control system.
- Set temperature, air temperature, baby temperature, humidity, and oxygen are displayed separately
- ＞37℃ temperature set function
- Failure alarm indication
- Embedded integrated sensor box
- integrated water reservoir in the shape of the drawe
- Double-wall hood, automatic air circulation device
- The inclination of the bassinet is adjustable
- RS-232 connector

YP-2100B
Infant Incubator



FEATURES

- The external 12.1-inch TFT color touch screen is 360° adjustable; together with the built-in 5.6-inch color LCD screen, dual-screen display is more convenient for operation
- Equipped with an embedded intelligent control system and an Android display system, the updated PID core algorithm makes the temperature fluctuation in the incubator more stable
- Configured with humidity control function and the oxygen concentration control function;
- High-temperature steam humidification can kill most of the common pathogenic bacteria in the water tank, greatly reducing the risk of infection
- Configured with two temperature control modes: air mode and baby mode controlled by micro-computer; the first domestic kangaroo mode can effectively maintain the physiological stability of premature infants
- The height of the whole machine can be adjusted to meet the operations of medical staff with different heights
- The electric control bassinet can be adjusted to multiple tilting angles smoothly by turning the knobs on both sides, which can also be achieved via the LCD touch screen. One-key leveling function makes operation more convenient

- Optional configurations can be selected such as Rainbow SpO2 pulse oximetry monitoring, ECG, SunTech, NIBP, hemoglobin, CO2 and apnea awakening monitoring function



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