OKUMAN Healthcare
Dedicated Hospital Solutions

OKM 801

INFANT INCUBATOR

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Premature and / or infants who have serious health problems after delivery are not capable of maintaining their body temperature at stable and appropriate level and need to be taken care properly by neonatologists and nurses. The treatment of such patients requires following conditions;

- fresh air
- sterile environment
- constant temperature and humidity level
- low noise level to not to interrupt their sleep

Also it is important to monitor haemodynamic parameters of such patients which is becoming easy with additional external display that allows you to set the values of the parameters

OKM 801 Infant Incubator is specially designed with high technology to provide all necessary requirements and make difference in NICU.

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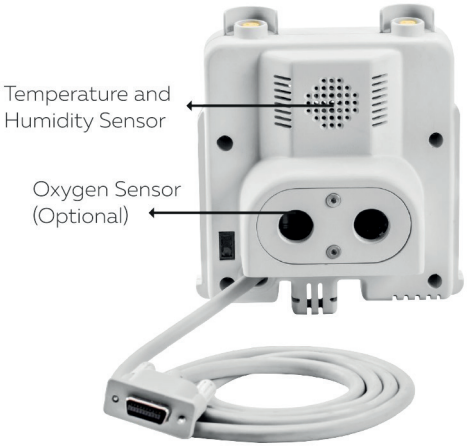
OKM 801 with OPTIONAL External Screen / Haemodynamic Monitor



Stability

OKM 801 infant incubator provides stable level of temperature thanks to additional ambient probe which compares the difference between air and set temperature and changing power output accordingly to provide proper air temperature inside the hood. The system is controlled by microprocessor and has self-test function.

Temperature Uniformity

OKM 801 infant incubator's design allows monitoring of temperature in two different points of the body (T1 and T2) for more accurate maintaining of targeted temperature level.

Super Quiet Design

It is approved that high noise level influences cardiovascular, respiratory systems, sleep patterns and increases the stress level of neonates.
OKM 801 infant incubator provides super quiet environment to neonates; the noise level inside the hood is reduced to 45 Db.

Detachable Sensor Module

Sensor module is connected to incubator's main body with 20 pin connector. It can be removed easily during maintenance and service.

Three Channel Temperature Sensors

OKM801 infant incubator has 3 channels of temperature sensors in the module box. First channel is interpreting the hood temperature in order to keep temperature at the set value. The second channel compares the temperature with two other sensors. If the difference between three channels is more than 0.8oC the alarm triggers.

Humidity Sensors

A humidity sensor inside the hood allows to read the humidity level of the incubator. When the water level in water reservoir is getting low an audible and visual Low Humidity alarms trigger.

Oxygen Sensors (Optional)

The oxygen control system adjusts the flow of oxygen inside the hood with a valve and an oxygen sensor module. The sensor module has two independent oxygen cells. When the sensor module is outside of the hood during oxygen control mode audible and visual alarms are triggered and the flow of oxygen is interrupted.

Backup Battery

OKM 801 is equipped with standard power failure alarm. It also has optional backup battery, once power supply is off, the backup battery supports the air circuit and alarm system to keep working at least 30 minutes.

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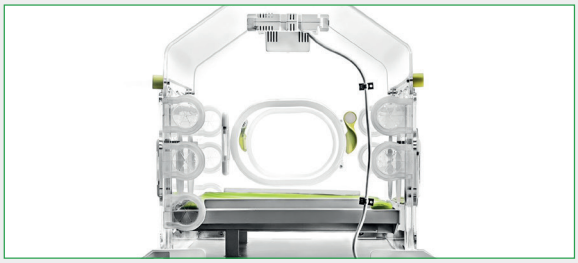
8'' Colour LCD Touchscreen display provides all incubator's parameter
Users can operate with soft buttons as well as with the touchscreen

Touchscreen



Can be operated from both side of hood

Ergonomically designed handle with perfect height

1,5 liter water reservoir enables
OKM 801 to keep running for 36 hours.

Big storage drawers

Detachable water reservoir,
easy to clean and sterilisable

Three auxiliary power output

External Haemodynamic Monitor (Optional)

Castor with lock

Other Features / Air Curtain

While the front or back access panels are opened the air circuit rotation rate is accelerated automatically and more warm air is delivered to the hood.
It effectively prevents heat loss and provides stable micro-environment to infants.

Bed Mechanism

Alarm Audio & Visual Display

Temperature Monitoring and Protection Alarms

OKM 801 infant incubator monitors and controls temperature of various points of heating system to ensure accurancy and safety. The alarms are triggered when deviations of monitored parameters are detected.

· High Skin Temperature · Low Skin Temperature · High Skin 1 Temperature · High Skin 2 Temperature · Skin Probe Disconnect · High Air Temperature · Low Air Temperature · Electronic Circuit Fault · High Temparature · Cut Out

Sensor Monitoring Alarms

OKM 801 incubator monitors the condition of air, humidity, oxygen sensors to ensure that all the collected data is truthful and accurate. Alarms are triggered when any error related to the operation of the sensors is detected.

· Humidity Heater Failed · Add water · Low Humidity (moisture) · Reservoir Out Of Position · Oxygen Cell Difference · Low Oxygen Ratio · High Oxygen Ratio · Check O2 Supply · Servo O2 System Fail · Change Oxygen Cells · High Spo2 alarm · Low Spo2 alarm · External display failure alarm · Separate Haemodynamic Parameters Failure Alarms

Working Condition Monitoring Alarms

In order to keep proper running and provide the best user ecperience, OKM 801 infant incubator monitors the working condition of each aspect.

· Motor Failed · Power Failure · Stuck Key · Sensor Module Failure · Sensor Disconnect · Low Air Flow · Air Flow Probe Failed · Battery Disconnect · Sensor Out of Position · Access Panel Open · Heater Failed · Air Probe Failed · Skin1 Probe Fail Alarm · SpO2 sensor Fail Alarm · Watchdog Failed

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General Specification

Height:	126.1 cm to 146.1 cm
Width:	99.7 cm
Depth:	57.7 cm
Package Dimensions:	107*68*155 cm
X-Ray Tray:	41 x 38.9 cm
External Display for Incubator & Haemodynamic Parameters (Optional):	8, 10 or 12 inches colour TFT
Power Supply and Frequency:	100-240 VAC and 50/60 Hz
Tubing Access Ports:	10
Access Door Size:	18x13 cm (Max 6 doors)
Mattress to Hood Height:	48.9 mm
Soft Bed Matress Size:	73 x 38.6 cm2 standart 80 x 38.6 cm2 on request (optional)
Trendelenburg:	±12°
Air Filter (Replacable):	Min. 0.3 to Max. 0.5 macron

Temperature Control Modes

Temperature Controls Modes:	Skin and Air Temperature Control Mode
Air Mode Control Temperature Range:	20°C - 37°C
Air Mode Control Override Temperature Range:	37°C-39°C
Air Mode Control Accuracy:	≤±1.0°C
Skin mode Control Temperature Range:	34°C-37.5°C
Heat Cut of Temperature:	40° C ± 0.8 ° C
Skin Mode Control Override Temperature Range:	37.5°C-39°C
Skin Temperature Accuracy:	±0.3°C
Dual-Skin Temperature Monitoring:	Yes

Performance

Air Flow Velocity Across Mattress:	< 10 cm/sec
Temperature Rise Time At 22 °C (72 °F) Ambient:	<20min (From 22°C, 50% RH, to 35 °C)
Temperature Variability:	< 0.5 °C
Temperature Overshoot:	< 0.5 °C Maximum
Temperature Uniformity With a Level Mattress:	< 0.8 °C
Operating Noise Level In Hood:	≤45dBa
Carbon Dioxide (Co2) Level:	<0.5%

Servo Humidity with AutoClean Function of Autoclavable Chamber

Humidity Control Range:	30% - 95% RH
Humidity Control Operating Time Without Refilling:	24 hours
Humidity Control Reservoir Capacity:	1500 ml
Humidity Display Accuracy:	±5% RH
Humidity Control Accuracy:	±5% RH

SpO2 option on control panel display

SpO2 measurement 1-100%
(in-built OKUMAN / NELLCOR option available)

External Slave Display option

Pole mounted 10 inches Colour LCD slave display

External Haemodynamic Monitor option

12 inches colour TFT Touchscreen
3/5 lead ECG, Resp., NIBP, Nellcor/Masimo/Okuman SpO2,
2 ch. Temp., 2 ch. IBP (optional), Mainstream EtCO2 (optional)
12 lead ECG (optional), In-built Thermal Recorder (optional)
HL7 compatible, OKM8800 Central station compatible
2 hours standard rechargable battery and optional upto 4 hours

Additional features & Accessories

Arm mounted Bilicare 050 000 LED phototherapy
Portable external Non-invasive jaundice meter
New Electrical Trendelenburg

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Digital Oxygen Display / Servo Controlled Oxygen (Optional)

Oxygen Control Range:	21% to 65%
Oxygen Display Accuracy Of Full Scale:	± 2%
Oxygen Control Accuracy (100% Calibration):	± 3%
Oxygen Control Accuracy (21% Calibration):	± 5%
Oxygen Display Resolution:	1%

Storage/Shipping Information

Temperature:	-25°C to 60°C
Humidity:	0 to 95 % RH

Scale (Optional)

Weight Range:	300 g to 8 kg
Weight Display Resolution:	1 g
Weight Accuracy:	±10 g

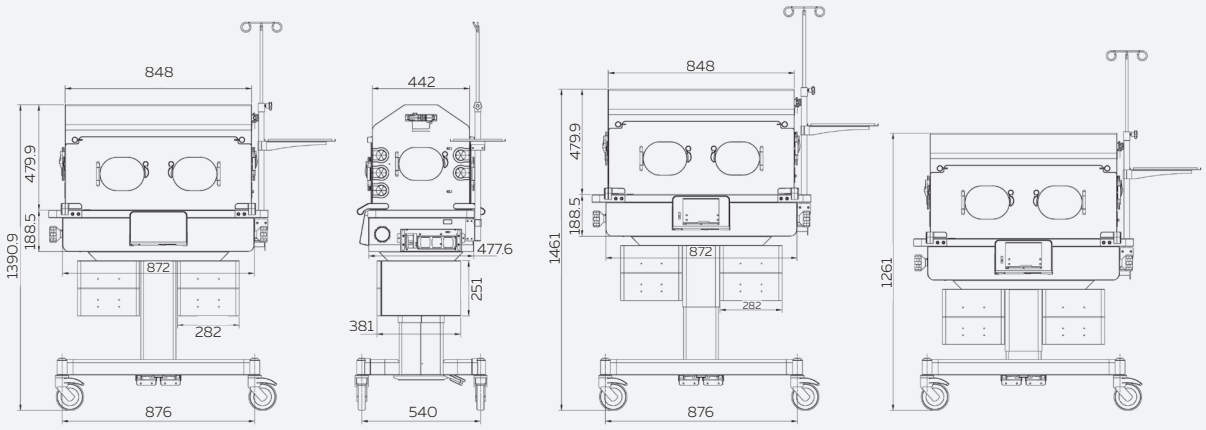
Environmental Specifications

Operating Environment:	20°C to 30°C
Temperature:	10 to 95% RH
Air Velocity:	Up to 0.1 m/sec

OKM 801 Standart

OKM 801 with Electrical Height Adjustment (E-Base)

OKM 801 with Electrical Height Adjusment and OKM500 Monitor



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