QED
SCIENTIFIC

OKM801 INFANT INCUBATOR

REASSURING QUALITY WHEN YOU NEED IT MOST

QUALITY DESIGN THAT PUTS BABY FIRST

Introducing the OKM801 infant incubator from Okuman Medikal.

Designed and built to the highest quality. The OKM801 offers a stable, uniform temperature and humidity, fresh and sterile climate, along with operating almost silently to give baby the perfect environment in which to progress.

Numerous sensors and alarms give you peace of mind that baby is in the safest environment.

- Temperature sensors and alarms
- Humidity Sensors and alarms
- Oxygen sensors and alarms
- Working conditions alarms

The unit is ergonomically designed with electrical height adjustment, lockable castors and large storage drawers as standard.

Packed with features and a user friendly interface, the OKM801 also offers patient details and trend recording as standard as well as an optional central monitoring system.

- Touchscreen display
- Automatic air curtain
- Large detachable water reservoir
- 6 port holes
- 10 tubing access ports
- 3 auxiliary power output points

Contact us to discuss your requirements and specification or to request further information.
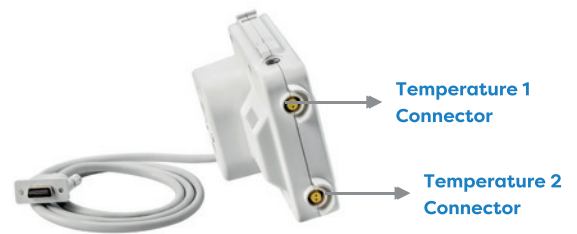
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STABLE

The ambient temperature probe in the OKM801 compares the difference between the set temperature and actual temperature and adjusts the heating power output accordingly to provide a more stable temperature and Environment inside the hood.

Temperature 1 Connector

Temperature 2 Connector

TEMPERATURE UNIFORMITY

The design of the air circuit system in the OKM801 is the result of a vast amount of research and development.

The temperature uniformity is pinpoint, allowing baby to have the experience the safest micro-environment possible.

The temperature is monitored at two different points of the body, giving better accuracy and maintaining targeted temperature easier.

SUPER QUIET DESIGN

In addition to the direct auditory effects of noise, noise also influences the cardiovascular system, respiratory system, sleep patterns and stress levels of neonates.

The OKM801 has been designed to provide a super quiet environment with a hood sound <45dB

OKM801 with External Screen/ Haemodynamic Monitor

DETACHABLE
SENSOR MODULE

The sensor module can be easily removed during cleaning, maintenance or service

TEMPERATURE SENSORS

There are three channels of temperature sensors in the module.
One channel for reading the hood temperature and maintaining the correct temperature.
The other two sensors compare readings with the other sensors.
If the results differ by more than 0.8°C then the alarm will sound.

Temperature and Humidity Sensor

Oxygen Sensor

HUMIDITY SENSORS

When an absence of water is detected, the humidity sensor will trigger an audible and visual alarm.

OXYGEN SENSORS

The oxygen control system adjusts the flow of oxygen within the hood with a valve and an oxygen sensor module. The senor module has two independent oxygen fuel cells.
When the sensor module is out of the hood during oxygen control mode, audible and visual alarms are triggered and the flow of oxygen is interrupted
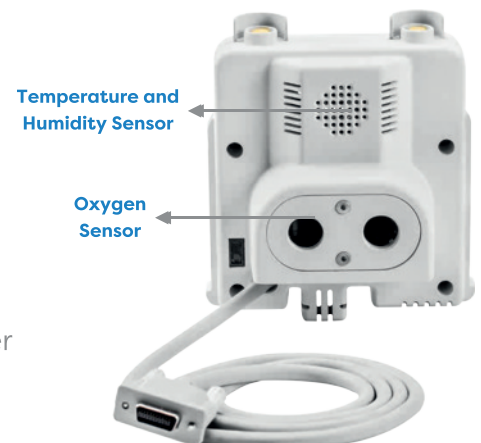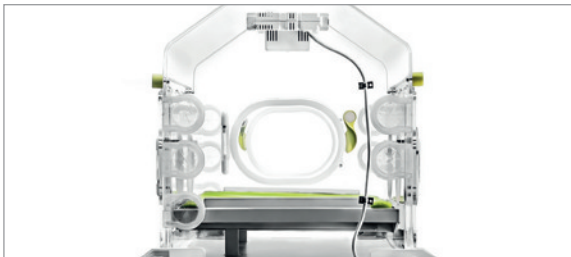
8" Colour LCD Touchscreen displaying all active parameters

Touchscreen

Port holes at both top and bottom

Ergonomic design

1.5l reservoir allowing for upto 36 hours of running time

Large storage drawers

Detachable water reservoir Easy to clean and sterilise

Three auxillary power output points


Haemodynamic Monitor displaying essential parameters

Height adjustment

Tente lockable castor

AIR CURTAIN

Should either the front or back panel be open, the air circuit motor automatically accelerates to deliver the required extra warm air to the hood, thus preventing heat loss and maintaining the stable micro-environment within the hood.

Double Wall Design

Air Curtain
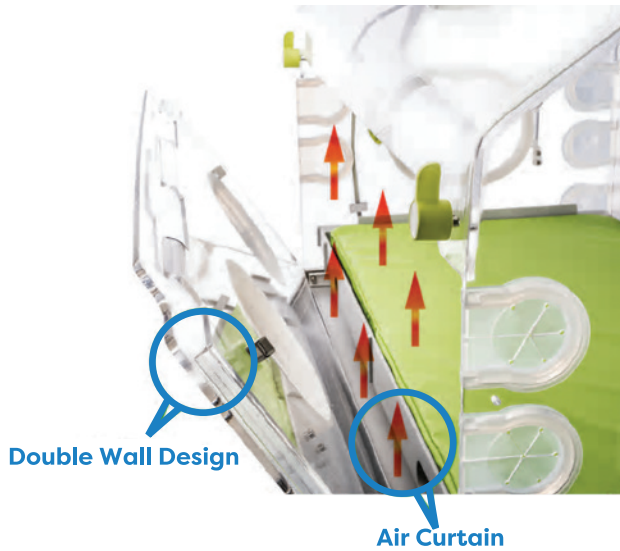
HAEMODYNAMIC MONITOR (OPTIONAL)

Monitor vital observations and trends while also automatically recording data. Also allows for monitoring of multiple babies via a central monitoring system.

ALARM - AUDIO & VISUAL DISPLAY

Safety and accuracy are paramount in the OKM801, sensors constantly monitor environmental parameters and working conditions.

TEMPERATURE MONITORING AND PROTECTION ALARMS

- 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

SENSOR MONITORING ALARMS

- Humidity Heater Failed
- Add Water
- Low Humidity
- 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
- Seperate Haemodynamic Parameters Failure

WORKING CONDITION MONITORING ALARMS

- Motor Failure
- Power Failure
- Stuck Key
- Sensor Module Failure
- Sensor Disconnect
- Low Air Flow
- Air Flow Probe Failure
- Battery Disconnect

- Sensor Out of Position
- Access Panel Open
- Heater Failed
- Air Probe Fail
- Skin1 Probe Fail
- SpO2 Sensor Fail
- Watchdog Fail

GENERAL SPECIFICATIONS

Height	1260mm - 1460mm	Tubing Access Ports	10
Width	997mm	Access Door Size	180mm x 130mm
Depth	577mm	Mattress to Hood Height	480mm
Weight	80kg	Soft Bed Mattress Size	736mm x 386mm x 18mm
Trendelenburg	±12°	Hood Cover Opening	180° (Front and Back)
X-Ray Tray	410 x 389mm	Parameters Display	Active and Set Values
External Display (optional)	8, 10 or 12" Colour TFT	Trend Display	2, 4, 8, 12 & 24 hours
Power Supply	100-240VAC & 50/60Hz	Air Filter	Min 0.3 - Max 0.5 macron

TEMPERATURE CONTROL MODES

Temperature Control 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°C
Skin Mode Control Override Temperature Range	37°C - 38°C
Skin Temperature Accuracy	±0.3°C
Dual-Skin Temperature Monitoring	✔

PERFORMANCE

Air Flow Velocity across Mattress	< 10cm/sec
Temperature Rise Time at 22°C Ambient	< 20min (From 22°C, 50% RH to 35°C)
Temperature Variability	< 0.5°C
Temperature Overshoot	< 0.5°C Max
Temperature Uniformity with a Level Mattress	< 0.8°C
Operating Noise Level in Hood	≤45dBa
Carbon Dioxide (Co2) Level	< 0.5%

SERVO HUMIDITY (OPTIONAL)

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

DIGITAL/SERVO OXYGEN DISPLAY

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

SCALE

Weight Range	300g - 8kg
Weight Display Resolution	1kg
Weight Accuracy	±10g
Operating Environment	20°C - 30°C
Temperature	10 - 95% RH
Air Velocity	Upto 0.1 m/sec

SpO2 WITH HAEMODYNAMIC MONITOR

Parameters	SpO2, PR, PI, PVI, SpCO, SpOC, SpMet, SpHb
Measurement Range	0 - 100%
Perfusion Index	0.02% - 20%
Haemo Parameters on External Screen	PR, NIBP, SpO2, Temp, EtCO2

STORAGE/ SHIPPING INFORMATION

Temperature	-25°C - +60°C
Humidity	0 - 95% RH