



# **OKM730**

**INFANT RADIANT WARMER**

# OKM730

## INFANT RADIANT WARMER

### Full Term

A newborn baby, when compared with the adult, has four times more heat loss capacity. For this reason, an infant requires a hotter environment than adults. According to the clinical studies, 39-40 weeks infant (full-term) loses 1-2 °C of their body temperature in 30 minutes after the delivery and depending on how small of the infants increases this heat loss.

### Thermal Radiation

Heat in the mother's uterus is 38 °C. During the birth, the neonate is delivered with wet placenta and outer environmental atmosphere is colder and thus loses heat by several different ways of thermal radiation.

### Reduce the Risk of Hypoxia

The newborns lose temperature rapidly, which causes cold stress and thus increases the oxygen consumption and metabolism, which may eventually cause hypoxia. However, by using radiant warmer soon after the delivery, the body temperature balance of the infant becomes more stable and this may reduce the adverse effects of the cold stress.

### Ensures Proper Thermoregulation with It's Advanced Design

To avoid any physical and neurological damage which may caused by thermo-stress, OKM-730 helps to keep the baby's body temperature within the neutral thermal zone of 36.5-37 °C for the ideal temperature balance with it's special design. Thus, the baby's limited metabolic activity is used for growth and survival functions rather than thermoregulation.

### Resuscitation Unit

By the help of OKUMAN Neoport T-piece manual resuscitation unit, clinicians can provide easy and reliable resuscitation if the baby does not inhale the first vital breath, T-piece Resuscitation application on babies also facilitates optimum oxygenation while protecting the lungs from possible harm.

### Auto Tilt Zeroing

OKM 730 has an option for auto tilt zeroing when baby scale in use. Tilt can be adjustable  $\pm 15^\circ$  by user

### OKUMAN

Makes a difference in neonatal warming, resuscitation, phototherapy and suction applications with its reliable and advanced design by continuously assessing the user demands and feedbacks. OKUMAN offers radiant heating solutions for babies during pre and post-delivery with its unique design. All radiant warmers are also used in neonatal intensive care units and meet mobile needs of attending caregivers.

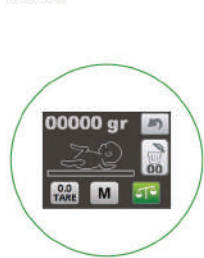
# OKUMAN Healthcare

Dedicated Hospital Solutions

Heater module Quartz or Ceramic (Optional)

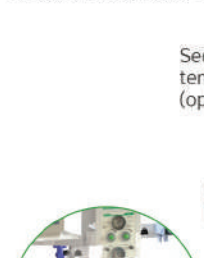


Integrated examination lamp (Dual)



**Digital Baby Scale**

Weight measurement up to 10 kg with a accuracy of 1 gr



**Auto Tilt Zeroing**



Air/Oxygen cylinder holder (At the back of the unit)

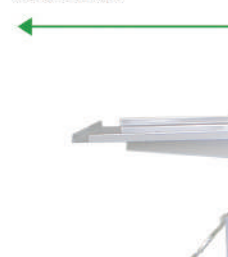


Four lockable castors

Integrated phototherapy modules (pair)



**Touch Panel (Optional)**  
Control Panel with 10" Touch Screen

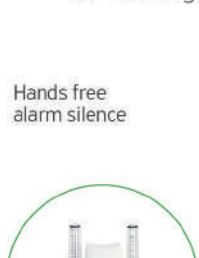


Secondary skin temperature inlet (optional)

Detachable and Drop-Down Plexiglass



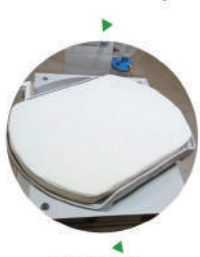
Rotatable Heater Module 90° Left&Right



**Air/O2 Blender**



Disposable / reusable suction jar



360° Swivel Bed (Optional)



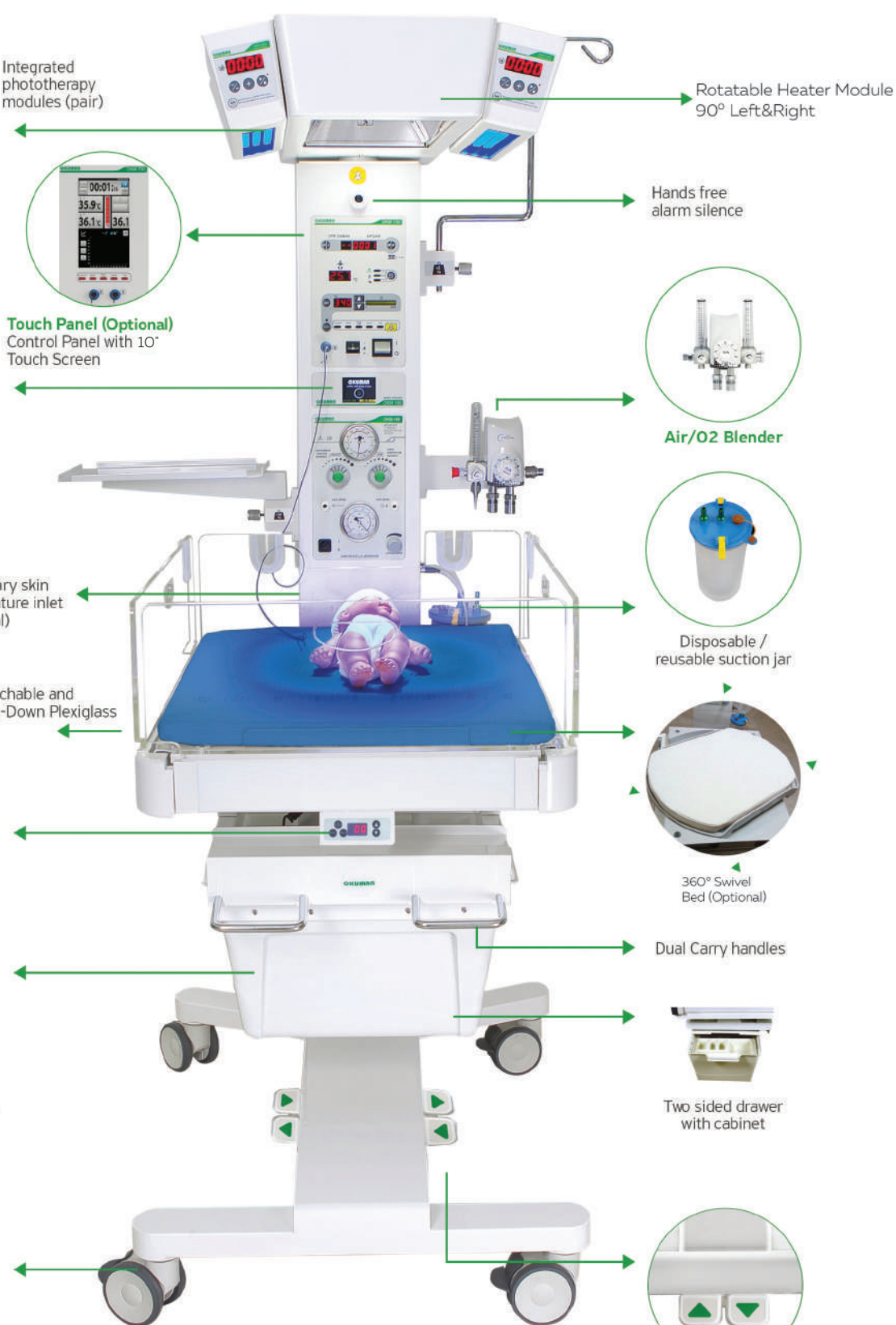
Dual Carry handles



Two sided drawer with cabinet



Electrical height adjustment pedals (left & right)





#### **OKM 730-ECO**

- X-Ray Cassette Tray
- I.V. Pole
- Monitor Shelf



#### **OKM 730-ADVANCED**

- X-ray Cassette Tray
- I.V. Pole
- Monitor Shelf
- Two Sided Drawer
- Suction Unit
- Baby Scale with LCD Color Display
- T-piece Resuscitation Unit
- Electrical Tilt Adjustment w. Zeroing Tilt Function
- Handsfree Alarm Silence



#### **OKM 730-STANDARD**

- X-Ray Cassette Tray
- I.V. Pole
- Monitor Shelf
- Two Sided Drawer
- Suction Unit



#### **OKM 730-FULL**

- X-ray Cassette Tray
- I.V. Pole
- Monitor Shelf
- Two Sided Drawer
- Suction Unit
- Baby Scale with LCD Color Display
- T-piece Resuscitation Unit
- Electrical Tilt Adjustment
- Auto Zeroing Function
- Handsfree Alarm Silence
- Air/Oxygen Blender
- Phototherapy Unit
- Electrical Height Adjustment (E-base)



#### **OKM 730 MOBILE**

- Adjustable Height
- Examination Lamp
- Mobility



## General Features

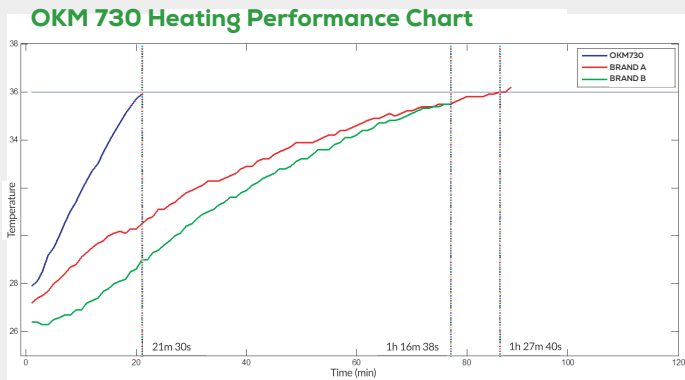






Figure – Rise Time Comparison Chart (Set value 36°C)

According to the experimental research data, OKM 730 reaches the ideal temperature set value of 36°C, starting from the room temperature, faster than any competitors' devices.

### Technical Specifications

System Control Type:	Dual Microprocessor
Temperature Rising Time (Room temp. to 36°C):	≤ 30 min
Adjustable Range of Skin Temp:	25°C to 38°C (0.1°C increments)
Display Range of Skin Temp:	10°C to 45°C (0.1°C increments)
Heater:	100W
Heater Output	0-100% (5% increments)
Modes of Operation	<div>  EKO                 </div> <div>  Prewarm                 </div> <div>  Servo                 </div> <div>  Manual                 </div>
Display Range of Air Temp:	10°C to 50°C (0.1°C increments)
CPR Timer:	0 to 99 min
Apgar Timer:	1-5-10-20 min
Communication Port:	RS232
Alarm Silence:	10 min
Adjustable Alarm Tolerance:	0.5°C to 1°C (0.1°C increments)
Noise Level:	≤45 dBA
Dual Examination Lamp, LED:	1500 lux
Control Panel Safety:	Electronic Lock

### Alarms (Audible and/or Visual)

Electric Failure:	Yes
Probe Failure:	Yes
System Failure:	Yes
Alarm Silence Button:	Yes
Temperature Deviation:	± 0.5°C
Temperature Overheat:	≥ 38°C
Heater Module Rotation	Left & right deviations
Check baby alarm	15 min

### Physical Specifications

Fix base height:	
Floor to Mattress:	81 cm to 93 cm
Floor to Heater-Top:	172 cm to 183 cm
E-base height:	
Floor to Mattress:	81 cm to 101 cm
Floor to Heater-Top:	172 cm to 202 cm
Mattress to Heater-Top height:	78 cm
Footprint:	100x67 cm
Bed:	68x53 cm
Mattress:	67,5x52x30 cm
Monitor size:	
Internal	26x36 cm
External	27x37 cm
Weight:	95 kg*
Load capacity:	max 10 kg
Bed Tilt (Trendelenburg):	± 15°

### Environmental Conditions

Operating Conditions:	Temp: 18°C to 30°C
	Humidity: 30% to 75%
Storage Conditions	Temp: -40°C to 55°C
	Humidity: ≤ 93% RH

### Electrical Features

Supply Voltage:	110 or 240 VAC ±10%
Supply Frequency:	50/60 Hz
Electrical Standards:	EN 60601-1, EN 61000, EN 60601-2-21, EN 60601-1-2

### Standards

Class:	Class IIb
Quality Certificates:	ISO 9001, ISO 13485, CE
Warranty Period:	1 year standard, extended warranty (optional)

\*Different Value For OKM 730 Full Model; Weight: 135 kg Depth: 1160 mm



## General Specification

System Backup Features				
Model Name	OKM 730-ECO	OKM70-STANDARD	OKM 730-ADVANCED	OKM 730 FULL
<b>Electrical Suction Unit</b>				
<ul style="list-style-type: none"> <li>Electrical adjustable suction control unit</li> <li>Suction manometer (0 to 180 mmHg)</li> <li>External venturi type suction unit (opt)</li> <li>1000 ml suction jar</li> </ul>	○	●	●	●
<b>Baby Scale With LCD Color Touchscreen</b>				
<ul style="list-style-type: none"> <li>Max load capacity: 10 kg</li> <li>Accuracy: ± 1gr</li> <li>Measurement memory up to 10 value</li> <li>Auto taring mode</li> <li>2.8" LCD Touchscreen</li> </ul>	○	○	●	●
<b>NeoPort Infant T-Piece Resuscitation (Integrated/ Stand Alone/ Mobile)</b>				
<ul style="list-style-type: none"> <li>PEEP: 1 to 15 cmH2O</li> <li>PIP: 0 to 70 cmH2O</li> <li>Max. Pressure: 0 to 70 cmH2O</li> <li>Manometer Range: -20 to 80 cmH2O</li> <li>Gas inlet flow range: 0 to 15 LPM</li> </ul>	○	○	●	●
<b>Air / O<sub>2</sub> Blender</b>				
<ul style="list-style-type: none"> <li>Adjustable O<sub>2</sub> concentration: 21% to 100%</li> <li>Accuracy: ±3% FS</li> <li>2 outlet ports</li> <li>Working pressure: 30 to 75 psi</li> <li>Gas inlet: DISS or NIST</li> </ul>	○	○	○	●
<b>Phototherapy Unit</b>				
<ul style="list-style-type: none"> <li>LED blue lamps: 54 pcs</li> <li>Light Intensity: Max 65 μW/cm<sup>2</sup>/nm</li> <li>Adjustable Light Intensity: 4 levels</li> <li>Lamp life time: 20,000 hrs to 50,000 hrs</li> <li>Wavelength: 455 nm to 460 nm</li> </ul>	○	○	○	●
<b>Bed Tilt (Trendelenburg)</b>				
Mechanical (M) or Electrical (E)	M	M	E	E
<b>Vertical Height Adjustment</b>				
Fix (F) or Electrical (E)	F	F	F	E
<b>System Backup Features for OKM 730-MOBILE</b>				
Control Panel Safety				
Dual Skin HeaterProbe				
Dual Examination Lamp:1500 Lux				
Heater Module: 600 W				
Footprint: 80x60 cm				

## General Specification

### Standard Accessories

OKM 730-002-012	Monitor Shelf, 1 pc
OKM 730-002-052	Mattress, 1 pc
OKM 730-077	X-Ray Cassette Tray, 1 pc
OKM 730-050	IV Pole (Serum Hanger), 1 pc
OKM 730-012	Skin Temperature Probe (Reusable), 1 pc
OKM 730-CE-TD-RI-KK	User Manuel, 1 pc
OKM 730-066	Power Cord, 1 pc

### Additional System Features for All Configurations

AOB 100	O <sub>2</sub> /Air Mechanical Mixer
GMX 30E AIR/O <sub>2</sub>	O <sub>2</sub> /Air Blender with 2 outlet
OKM-1001	Integrated phototherapy units (left & right pair)
OKM-1003	Electrical suction unit with jar
OKM-150	T-Piece Resuscitation Unit
OKM-160	Baby Scale with LCD Display
OKM-730-019	Electrical Height Adjustment (E-base)
OKM-730-020	Electrical Bed Tilt Adjustment
OKM-730-021	Auto tilt zeroing and tilt memory function
OKM-730-022	Air Temperature Display
OKM-730-023	Alarm Silence (Handsfree)
OKM-730-024	Ceramic Heater Selection
OKM-730-025	Rotary temperature control knob
OKM-730-026	Examination lamp with dimmer function
OKM-730-027	2nd Skin probe inlet
OKM-730-078	Two sided drawer with cabinet
OKM-730-250	Control panel with 8" color touch screen TFT display

### Optional Accessories

OKM 730-011	Peripheral/Skin temp probe (disposable)
OKM 730-012	Peripheral/Skin temp. probe (reusable)
OKM 730-0177	Fixing stamp with heat reflector
OKM 730-018	Double thermistor skin temp. probe
OKM 730-064	Infant head fixing mattress
OKM 730-055	IV pole with stand
OKM 1003-SP001-01	Reusable suction jar
OKM 1003-SP001-02	Disposable suction jar
OKM 730-444	Positioning bed
OKM 730-028	Gel mattress
OKM 730-151	T-piece respiratory set (disposable)
OKM 730-002-083	Swivel bed
1540032	Phototherapy eye protection mask bonnet type (small)
1540033	Phototherapy eye protection mask bonnet type (medium)
1540034	Phototherapy eye protection mask bonnet type (large)
1540055	Phototherapy protection diaper for premature (medium)
1540056	Phototherapy protection diaper for premature (small)
1540057	Phototherapy protection diaper for premature (large)
1540058	Phototherapy protection diaper for premature (XS)
1540060	Baby gloves

Baby Model w/Accessories:



# OKUMAN

OKUMAN Medikal Sistemler A.Ş.

Kazım Karabekir Caddesi 95/95 06060 Iskitler  
Ankara / Turkey

info@okuman.com.tr  
www.okuman.com.tr

Phone: +90 312 384 05 20  
Fax : +90 312 384 19 75

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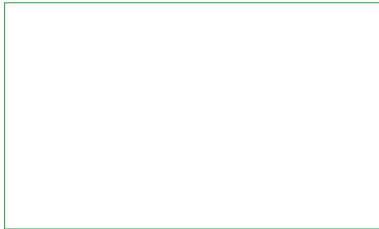
ISO 13485



ISO 9001



Medical Device O.M.S.  
15 EN ISO 13485:2016  
AB-0006-Y5



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