



Infant Radiant Warmer

nice 2010 BC

*Infant Radiant Warmer offers a radiant source of heat to babies who suffer from hypothermia. It provides an artificial support to keep the body temperature constant at a desired level with the use of **i-sense** technology.*





Operah | Infant Radiant Warmer



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TFT TOUCH SCREEN

1

For seamless convenience, Our Operah comes with High resolution TFT touch screen with 7" display user friendly interface.



QUARTZ HEATER

2

We provide highly reliable Quartz heater to ensure adequate temperature control instantly. This also proves to operate and deliver heat against varying environmental conditions



90° SWIVELABLE HEATER HEAD

3

We provide 90° Rotatable Heater Module to easily access the baby for other treatment procedures like X-ray etc., to ensure continuous thermal control



i-SENSE TECHNOLOGY

4

Our Unique high end i-Sense technology enables the equipment to sense the detachment of skin probe from the baby skin and directs the heater to reduce its output



MULTI MODE

7

For effective handling of thermal conditions in different babies we have provided multiple warmer operating modes

5 Modes - Baby Mode, Safe Mode, Manual Mode, Prewarm Mode, HIE Mode & ECO Mode

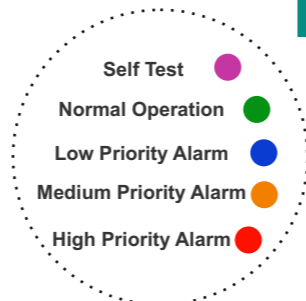
It comes with optional two probes - Peripheral probe and Air Probe



MULTIPLE SAFETY FEATURES

5

We follow very stringent safety measures well above the dictated values by European & Indian authorities, by enabling Eleven layer safety mechanisms into action.



PRIORITY ALARM

6

Operah comes with both audible & visual alarms which are color coded. This helps in easy differentiation of the priority levels to the clinician/user.

FEATURED MODES

8

HIE Mode allows the baby temperature to get monitored while restricting the heater output to zero.

ECO Mode facilitates the equipment to operate with effective power usage and there by reduces the power consumption up to 50%

Safe Mode ensures the safety of the baby by restricting heating capacity

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ELECTRICAL HEIGHT ADJUSTMENT

9

Height of the bed can be adjusted in the range of 200mm electrically in a very gentle manner without any vibration or noise using foot pedals



UNIQUE & STURDY BASE

11

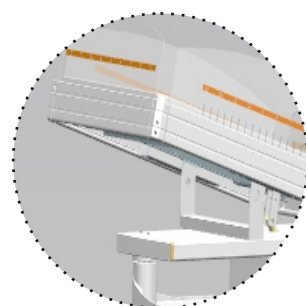
We have equipped our Operah with unique H-Shape Base which also comes with highly reliable 4 Castor wheels out of which two are lockable castors



ELECTRICAL BED POSITIONING (TRENDELENBURG)

13

Smooth bed tilting for Trendelenburg & Reverse Trendelenburg to suit the specific clinical need of the baby. Hence it is electrical, the handling is made easier & convenient



MODULAR CABINETS

10

Operah Infant Radiant Warmer comes with Highly durable extremely user-friendly, spacious cabinets which can be accessed 360°



BUILT IN WEIGHING SCALE (OPTIONAL)

12

Our Operah Comes with Built In Weighing Scale that can be used to weigh up to 10 kgs with 5 Grams accuracy.



X-RAY CASSETTE HOLDER

14

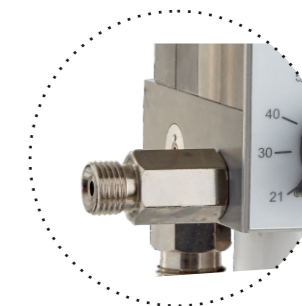
X-Ray Cassette facilitates x-ray while baby occupies the infant warmer bed. Measurement scales are provided on all sides.



AIR/OXYGEN BLENDER (OPTIONAL)

15

Operah can be opted to come with an inbuilt air oxygen blender to be used for various other clinical application to deliver blended gas



Infant Radiant Warmer

Features:

• Micro Controller based Electronics	• Dual Observation Lamp with dimming facility from 25% to 100%
• Controls: Baby Control (Servo Skin), Servo Air*, Manual, Safe mode, Prewarm, HIE	• Memory Backup to restore set temperature and previous mode, in case of power failure.
• Pre-warm: For preparation and setting up of the bed area before treatment	• Optimum Bed dimensions ensure optimum work space for the nursing staff.
• Manual mode : User changeable heater output	• Comprehensive Alarms and safety cut-offs.
• Eco function to optimize the total power consumption to 350 W	• Pilot Lamp indication to know the status of the equipment .
• HIE function to disable the heater during the treatment of HIE patients	• Programmable Audio paused time.
• The Heater Module rotates 90° to both sides to facilitate X-Ray Procedures.	• Instant Warming and Uniform heating.
• The Parabolic Reflector is designed to send uniform heat to the bed surface.	• i - Sense technology (if the skin temperature probe detached from the baby skin, the device automatically sense and reduce the heater output to 30%)



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Technical Specifications

Controller Electronics	: High speed micro controller with self test function.	Heater fail	: Heater is disconnected or fails
Mode of operation	: Baby Control (Servo Skin), Servo Air*, Manual, Prewarm.	Over temperature	: If skin/Air* temperature is >39°C
Baby(servo) mode control range	: 32.5°C-38.0°C increment of 0.1°C	System fail	: If any component is defective
Air*(servo) mode control range	: 20.0°C-38.0°C increment of 0.1°C	Power fail	: AC power interruption
Manual mode	: Heat selection range from 0% to 100%	Physical characteristics	
Manual mode timer	: After 15 minutes, the heater output will reduce to 30% with medium priority alarm	Equipment	: 190 cm (H) X 125 Cm (L) X 66 cm (W)
Apgar timer	: 1-59 minutes Count up/Count down	Weight	: 60 Kgs
Percentage of heater output	: 0% to 100% in 5% increments	Mattress	: 73 cms (L) x 53 cms (W) x 5 cms (H)
Memory back up settings	: Equipment restores the previous settings	Mattress from floor	: 95 cms
Audio Paused time(programmable)	: 15 minutes	Maximum load	: 10 Kgs
Safety heater cut off the baby's skin	: If the skin sensor is removed from the baby's skin	Side panels	: Aluminum hinged acrylic panels / Plastic hinged Acrylic panels
Over temperature heater cut off	: If the skin/air temperature is >39°C in any skin/maual mode	Environmental	
Baby Temperature display	: 10°C - 50°C	Operating temperature	: 15.0°C to 35.0°C
Air* Temperature display	: 10°C - 50°C	Storage temperature	: -10.0°C to 60.0°C
Resolution	: 0.1°C	Operating humidity	: 15% to 90% RH, non condensing
Thermostat	: 90°C - ± 5°C	Storage humidity	: 50% to 90% RH, non condensing
Temperature sensor (probe)	: Thermistor sensor	Altitude	: Sea level to 1.9 miles (3 Kms)
Accuracy of skin sensor	: ± 0.2°C	MDD Product Classification	: Class IIB
Skin probe Interchangeability	: ±0.2°C	IEC 60601-1 Specification	
Calibration of skin sensor (probe)	: No need of calibration	Type of protection against electric shock	: Class I
Heater element	: Quartz Infrared heater	Degree of protection against electric shock	: Type BF (Baby temperature (T1) Sensor) Type B (Mattress)
Power rating	: ~230V AC, 50Hz, 700 VA	Mode of Operation	: Continuous
Maximum heater wattage	: 600 VA	Protection against Hazardous of Explosion	: Not Protected
Maximum power requirement	: 700 VA	Protection against ingress of liquid	: Not Protected
Observation Lamp	: 6X1W LED, Dual LED lamp	Quality/Test Approval	
X-ray Cassette facility	: Underneath the bed	Quality	: ISO 13485:2016
Mattress tilt	: ± 15 degrees on both sides	Electrical & product safety	: IEC 60601-1, IEC 60601-2-21(Warmer) ISO 10993
IV pole	: Maximum load 1.5 Kg	EMC Safety Alarm	: IEC 60601-1-2 IEC 60601-1-8
Castor without brake	: 4" castors 4 Nos. (2 with brake & 2 without brake)		
Monitor shelf	: 1 Nos. Fixed / Maximum load 3 Kg		
Operating noise level	: <50 dBA		
Controller Alarms:			
Baby temperature high	: > 1.0°C from the set temperature		
Baby temperature low	: < 1.0°C from the set temperature		
Air* temperature high	: > 1.0°C from the set temperature		
Air* temperature low	: < 3.0°C from the set temperature		
Sensor fail	: Skin temperature sensor or Air* temperature sensor is removed and damaged		
Air* Optional feature			

*Features and specifications in this catalogue are correct at the time of printing. nice Neotech reserves the right to change specifications nice - neonatal intensive care equipment without prior notice. Capable of providing any configuration to meet the hospital and treatment requirements.



nice Neotech Medical Systems Pvt. Ltd.

An ISO 13485:2016 Company (with design)

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