

CLINIQON HC
LEADING INNOVATIONS



Lebenstherm
LA 200

INFANT INCUBATOR

Labenstherm Incubator is designed to provide safe controlled space for infants to live while their vital organs develop. It provides the ideal temperature as well as the perfect amount of Oxygen , Humidity & Lights. It is complete ideal solution for infants.





STABILITY

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

SENSOR MODULE DETACHABLE

Sensor module is connected to incubators main body with 20 pins connector.it can be removed easily during maintenance and service

3 CHANNEL TEMPERATURE SENSORS

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

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

UNIFORMITY TEMPERATURE

Infant incubators design allows monitoring of temperature in two different points of the body (T1 and T2) for more accurate maintaining of targeted temperature level

REMARKABLE QUIET DESIGN

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



FEATURES

- Castor with lock
- Big storage drawers
- Keep running for 36 hours
- Three auxiliary power output
- 1.5 - liter water reservoir enables
- It can be operated from both side of hood
- External Hemodynamic Monitor (optional)
- Ergonomically designed handle with perfect height
- Detachable water reservoir easy to clean and sterilizable
- Users can operate with soft buttons as well as with the touchscreen
- 8" Colour LCD Touchscreen display provides all incubators parameter

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

- Sliding out mattress tray with safety mechanism
- Front door opening >180 degree
- Double wall design

BATTERY BACKUP

Equipped with standard power failure alarm optional backup battery supports air circuit & alarm system for 30 minutes

ALARM AUDIO & VISUAL DISPLAY

TEMPERATURE MONITORING AND PROTECTION ALARMS

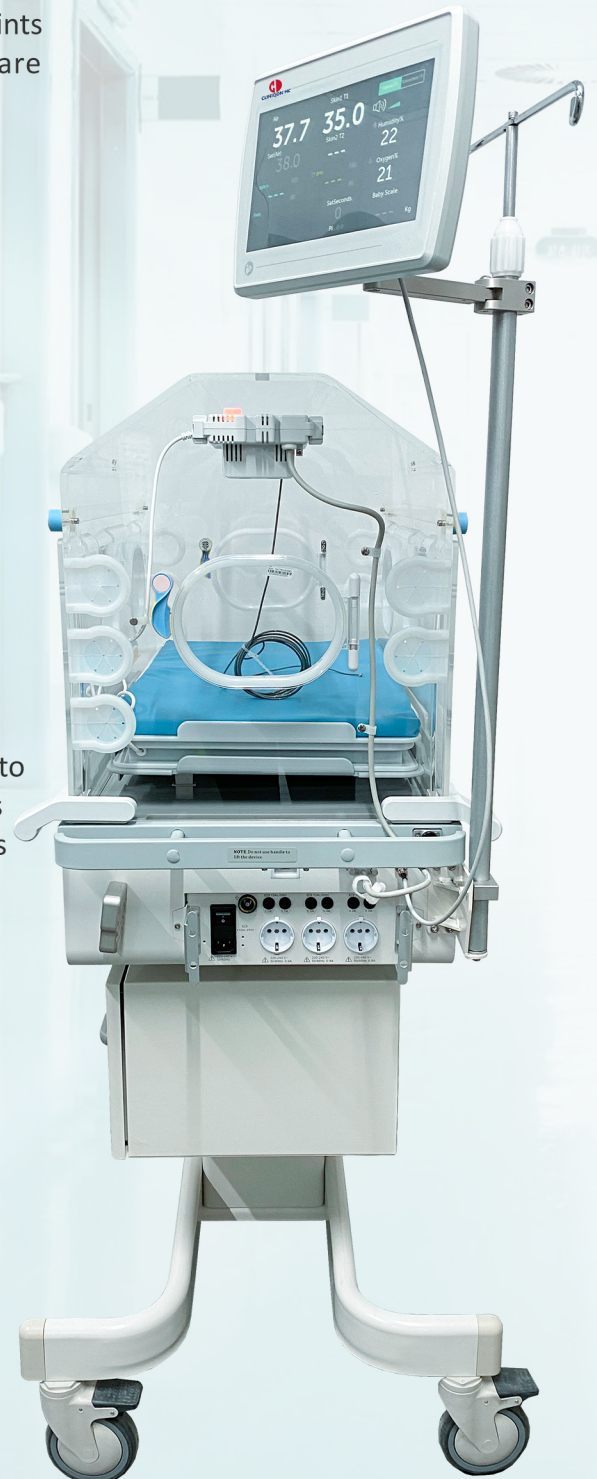
Infant incubator monitors and controls temperature of various points of heating system to ensure accuracy and safety. The alarms are triggered when deviations of monitored parameters are detected.

- 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 temperature
- Cut out

SENSOR MONITORING ALARMS

Incubator monitors the condition of air, humidity, oxygen sensors to ensure that all the collected data is truthful and accurate. Alarm is 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 hemodynamic parameters failure alarms





WORKING CONDITION MONITORING ALARMS

In order to keep proper running and provide the best user experience Infant incubator monitors the working condition of each aspect.

- Motor failed
- Stuck key
- Sensor disconnect
- Air flow probe failed
- Sensor out of position
- Heater failed
- Skin 1 probe fail alarm
- Watchdog failed
- Power failure
- Sensor module failure
- Low air flow
- Battery disconnect
- Access panel open
- Air probe failed
- Spo2 sensor fail alarm

GENERAL SPECIFICATION

Height:	126.1cm to 14601cm
Width:	99.7cm
Package dimensions:	107*68*155cm
Depth:	577cm
X-ray tray:	41x 38.9cm
External display for incubator & Hemodynamic parameters(optional):	8,10 or 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 mattress size:	73x38.6 cm2 standart 80x38.6 cm2 (optional)
Trendelenburg:	+/-12degree
Air filter(replaceable):	Min 0.3 to Max 0.5 macron

PERFORMANCE

Air flow velocity Across mattress:	<10cm/sec
Temperature rise Time at 22 degree Ambient:	C (72-degree F). <20 min (from 22 degree C,50% RH, to 35 Degree C)
Temperature variability:	<0.5 degree C
Temperature overshoot:	<0.5 degree C maximum
Temperature uniformity with a level mattress:	<0.8 degree C
Operating noise level in hood:	<45 dBa
Carbon dioxide (co2) level:	<0.5 degree C



TECHNICAL SPECIFICATIONS

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TEMPERATURE CONTROL MODES

Temperature control modes:	skin and air temperature control mode
Air mode control temperature rate:	20 degree – 37b degree
air mode control override temperature range:	37 degree C - 39 degree C
Air mode control accuracy:	<+-10 degree C
Skin mode control temperature range:	34 degree – 37.5 degree C
Heat cut of temperature:	40 degree C +-0.8 degree C
Skin mode control override temperature range:	37.5 degree C – 39 degree C
Skin temperature accuracy:	+0.3 degree C
Dual skin temperature monitoring:	Yes

SERVO HUMIDITY WITH AUTO CLEAN 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
Accuracy:	+ - 5% RH

SPO2 OPTION ON CONTROL PANEL DISPLAY

SPO2 measurement	1-100% (in-built /NELLCOR option available)
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EXTERNAL SLAVE DISPLAY OPTION

Pole mounted 10 inches colour LCD slave display.

EXTERNAL HEMODYNAMIC MONITOR OPTION

- 12 inches colour TFT touchscreen
- 3/5 lea ecg ,resp,nibp nellcor/masimo/ spo2.
- 2 ch temp 2ch IBP(optional) mainstream ETCO2 (optional)
- Mainstream EtcO2(optional) 12 lead ECG (optional)
- In built thermal recorder (optional) HL7 compatible
- Central station compatible
- 2 hours standard recharge able battery and optional up to 4 hours

ADDITIONAL FEATURES& ACCESSORIES

- Arm mounted 50000 LED phototherapy
- Portable external non-invasive jaundice meter
- New electrical Trendelenburg.

TECHNICAL SPECIFICATIONS

DIGITAL OXYGEN DISPLAY/SERVO CONTROLLED OXYGEN(OPTIONAL)

Oxygen control range:	20% to 65%
Oxygen display accuracy of full scale:	+ -2%
Oxygen control accuracy (100% calibration):	+ -3%
Oxygen control accuracy (21 % calibration):	+ -5%
Resolution:	1%

SCALE(OPTIONAL)

Weight range:	300 g to 8 kg
Weight display resolution:	1 g
Weight accuracy:	+ -10 g

ENVIRONMENTAL SPECIFICATIONS

Operating environment:	20 degree C to 30 degree C
Temperature:	10 to 95% RH
Air velocity:	up to 0.1 m/sec

STORAGE/SHIPPING INFORMATION

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

- Standard Optional
 - electrical height adjustment (E base) Optional
 - electrical height adjustment and monitor Optional
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