

COMPREHENSIVE INFANT CARE CENTRE CIC 101

INNOVATIVE • SOPHISTICATED • INTEGRATED



PHOENIX
Phoenix Medical Systems (P) Ltd.

The CIC 101 from PHOENIX is simply the most sophisticated neonatal open care system available today. It has been designed to meet the requirements involved in providing care for the preterm infant and to meet the critical situations that may arise in providing such care. CIC 101 is remarkably convenient and user friendly, the space around the infant is organized efficiently for the convenience of care-givers, the mother and visitors.

WARMER UNIT

Temperature sensing is performed using a thermistor. The entire warmer unit may be swivelled away on either side when X-ray equipment is used.

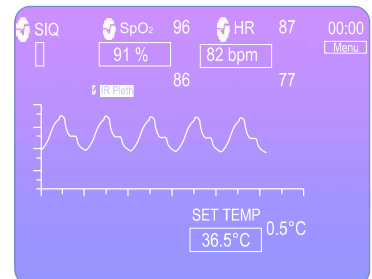


LAMPS

Two soft-start examination lamps minimize disturbance of the sleeping baby. The lamps are switched on or off and dimmed using Phoenix's innovative non-touch system. This system ensures that infections are not spread by contact with switches.

ALARMS

The unified alarm system facilitates intelligent management of alarms for different alarm situations. Alarms are ramped, thereby reducing noise disturbance. A pilot lamp gives a visual indication.



HEIGHT ADJUSTMENT

The height of the bed along with the control and display panel and the warmer unit may be adjusted to your convenience. Foot-operated switches have been provided on both sides of the equipment for adjusting the height easily.

INSTRUMENT TRAY

Instrument trays may be placed at six convenient locations.





DISPLAY

The graphic display is integrated with the controls. All vital parameters are displayed clearly in one panel and trended over 24 hours.

PULSE OXIMETRY

Pulse oximetry measurements are performed using well established

MASIMO® technology.

WEIGHING SCALE

The CIC 101 features an in-bed weighing scale, and so the baby does not need to be transferred for weight measurements. The weights of nappies, caps, etc. are automatically discounted.

CPAP

The resuscitation unit features intermittent positive-pressure ventilation (IPPV). The flow-based operation of the CPAP unit is baby-friendly and eases the breathing.



THE BED

The bed also swivels to provide quick access to the infant's head for resuscitation in emergencies. This feature also permits close contact with the mother. The bed may be tilted to Trendelenberg - and Fowler-like positions after surgery and after a feed.

A gas-assisted mechanism tilts the bed smoothly. X-ray trays may be slid into and out of the X-ray compartment without any need to handle the infant.

CE 0123

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TECHNICAL SPECIFICATIONS

Self-checking microcontroller based baby control system

Physical dimensions:

Height+	1840 mm - 2140 mm
Length	1425 mm
Width	940 mm

LCD graphical display with trend facilities 7" colour TFT

Skin Temperature
Heater set value
Baby Weight
Heart rate (BPM)
SpO2

Mechanical

Castors	5" with brakes
Infant bed	Oval shaped bed for greater accessibility
Bed tilt	$\pm 12^\circ$
Bed rotation	$\pm 60^\circ$
X-ray provision	Provision to take X-rays with the help of portable machines without shifting the infant.

Permits rotation of the heater without disturbing the infant during radiography

Electrical power requirements

Operating voltage	230 V AC ~
Power rating	750W
Fuse rating	4 A
Frequency	50 Hz
Leakage current	0.5 mA
Observation lamp with dimmer controller	12v, 20w (touch free)

Skin temperature probe

Range	6°C to 50° C
Accuracy	$\pm 0.2^\circ$ C
Resolution	0.1° C
Probe interchangeability	$\pm 0.2^\circ$ C

Servo Mode

Set temperature range (Servo)	32° C to 37° C,
Override able up to	38° C

Heater

Single element 600 W quartz infrared heating element placed in a parabolic reflector
Heater Life Time 12months

Manual Mode

Heater output control range (Manual) 0% to 100% (5% increments)

Pre-Warm Mode

Heater output control	60% after 3 minutes
	30% after 12 minutes

+ Height adjustment is optional

Audio and visual alarms

- High / Low infant temperature
- Probe failure
- Heater failure
- Power failure (up to 10 minutes)
- SpO₂ BPM (High / Low)
- System failure with automatic heater cut off
- Power down alarm in manual mode (after 10 minutes, heater power reduce to 60%)
- Manual mode alert alarm (every 15 minutes)
- Over temperature
- High, low oxygen concentration ($\pm 5\%$ from the set value) for CPAP function
- High, low pressure (± 2 cm H₂O from the set value) for CPAP function

Visual alarms (Screen message)

- Peripheral probe failure
- Skin temperature difference (1 deg. C between two probes)

Battery backup

For nCPAP and for temperature monitoring 1 hour (max)

APGAR Timer (Optional)

Works in Pre-Warm mode only
Beep sound at 1, 3, 5 & 10th minutes
Stop at 20 minutes

TIMER (Optional)

Works in Manual and Baby servo mode
UP / Down

Internal Weighing Scale (Optional)

Accuracy	+/-10 g
Load capacity	10 kg (max)

RESUSCITATION: (Optional)

Breathing aid

Airway ventilation outlet (hand operated port)

Oxygen flow rate control	0 _ 8 Lit/min.
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Breathing rate control	Manual
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Maximum airway pressure	35 cm H ₂ O
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Adjustable airway pressure	10 _ 35 mm H ₂ O
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Suction control

Maximum suction	250 mm Hg
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Vacuum gauge range	0 - 760 mm Hg
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(Electrical option on request)

Auxiliary oxygen outlet

Oxygen flow control	0 _ 8 Lit/min
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Maximum airway pressure	55 cm H ₂ O
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MASIMO PULSE OXIMETER (Optional)

Oxygen saturation range	0% to 100%
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Pulse rate range	25 to 240 BPM
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Perfusion index	0.00% to 20.00%
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CPAP (Optional)

Oxygen flow rate control	0- 8 Lit/min.
O ₂ concentration	21% to 100 %
Oxygen inlet pressure	3 bar to 6 bar
Air inlet pressure	3 bar to 6 bar
Suction pressure	0 to 250 mm Hg
Manometer (digital)	0 to 99 cm H ₂ O
Bar display digital	0 to 20 cm H ₂ O
CPAP pressure	0 to 20 cm H ₂ O

Air & oxygen blender

The patient should always be open to the atmosphere, and the resistance (PEEP) should be generated by flow.

Accessories (Optional)

- Supplied with bonnet and cap for correct positioning of nasal prong
- Supplied with prongs of 3 sizes (small, medium and large)
- Provided with PEEP generator near baby to ease respiratory effort by the baby and reduce dead space.

Standard accessories

- Height-adjustable IV stand
- Mayo trays
- IV pipe for fixing accessories

Coating

Epoxy/powder coating for scratch resistance and rust protection

Electrical protection

Type of protection against electric shock	Class 1
Degree of protection against electric shock	Type B
Mode of operation	Continuous
Protection against hazards of explosion	Not-protected

Manufactured to standards

IEC 60601 - 1, IEC 60601 - 1- 2, IEC 60601 - 2- 21

Environmental specifications

Operation temperature range	18°C to 30°C
Storage temperature range	10°C to 60°C
Operating humidity range	0% to 100% RH

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