PCB MEDICAL
FAST. EFFICIENT. TRUSTED.

BABY INCUBATOR · AIR MODE · CONTINUOUS HUMIDITY · CABINET BASE · CE / ISO 13485

PCB-INC-20

ABOUT THE PCB-INC-20

Premium neonatal incubator with continuous humidity control.

The **PCB-INC-20 Baby Incubator (Top Grade)** is a premium-tier, microprocessor-based, servo-controlled neonatal incubator built for NICU, recovery wards and high-acuity newborn care. It upgrades from the standard model with **continuously adjustable humidity**, an **aluminum-alloy bodywork**, a removable axial DC fan and an integrated storage cabinet base with locking front doors.

Set temperature, air temperature and heating power are each displayed on independent LED indicators for instant readability. A **self-testing function** verifies every safety-critical sub-system at power-up, and a comprehensive alarm suite (power failure, over temperature, temperature deviation, fan failure, temperature-sensor failure) keeps the clinical team informed of any deviation.

Triple over-temperature protection with an independent secondary cut-off device safeguards the newborn even if a primary sensor fails. The single-wall hood with **4 operating windows, 2 iris ports and 3 infusion seals** gives the clinical team full access while preserving the controlled microclimate. An **RS-232 connector + oxygen inlet** support integration with monitoring and respiratory support equipment.

SPECIFICATIONS

Built to neonatal-grade standards.

MODEL **PCB-INC-20**	CONFIGURATION **Cabinet base · single-wall hood · aluminum alloy**	CONTROL MODE **Air mode (microprocessor servo)**

AIR TEMPERATURE RANGE **25 – 37 °C (high: 37.1 – 39 °C)**	TEMPERATURE FLUCTUATION **±0.5 °C**	MATTRESS TEMP UNIFORMITY **≤ 0.8 °C**
HUMIDITY **Continuously adjustable**	TROUGH CAPACITY **1,000 mL**	WARM-UP TIME (FROM 25 °C) **< 30 min**
INTERNAL NOISE LEVEL **< 55 dB(A)**	INFANT BED TILT **±12°**	MATTRESS SIZE **65 × 37 cm**
AIR FILTER **0.5 µm**	OPERATING WINDOWS **4 operating windows · 2 iris ports · 3 infusion seals**	DOOR **Independent locking front door**
CONNECTIVITY **RS-232 connector · Oxygen inlet · 1 tray**	POWER SUPPLY **AC 110 / 220 V · 50 / 60 Hz**	POWER CONSUMPTION **650 VA**
OPERATING TEMPERATURE **20 – 30 °C**	OPERATING HUMIDITY **30 – 75 %**	AIR VELOCITY **< 0.3 m/s**
STORAGE TEMPERATURE **–10 °C to +55 °C**	STORAGE HUMIDITY **≤ 95 %**	ATMOSPHERIC PRESSURE **500 – 1060 hPa**
PACKAGE · CABINET **112 × 98 × 98 cm · N.W. 80 kg · G.W. 110 kg**	PACKAGE · HOOD **98 × 85 × 74 cm · N.W. 15 kg · G.W. 30 kg**	CERTIFICATIONS **CE 0197 · ISO 13485:2016 · TÜV Rheinland**

KEY FEATURES

Engineered for neonatal safety.

MICROPROCESSOR SERVO CONTROL

Closed-loop microprocessor maintains the set air temperature within ±0.5 °C fluctuation. **Set temperature, air temperature and heating power** are each shown on separate LED indicators for instant clinical readability.

CONTINUOUSLY ADJUSTABLE HUMIDITY

Step-free humidity control across the full operating range — finer regulation than two-step incubators, allowing precise micro-climate management for premature infants.

TRIPLE OVER-TEMPERATURE PROTECTION

Independent secondary cut-off device protects the newborn if the primary sensor fails. **> 37 °C set function** is gated behind a confirmation step to prevent accidental high-temperature setting.

SELF-TESTING + COMPREHENSIVE ALARMS

Power-up self-test verifies all safety-critical sub-systems. Audible + visual alarms for: **power failure, over temperature, temperature deviation, fan failure, temperature sensor failure**.

SINGLE-WALL HOOD · FULL ACCESS

Single-wall hood with **4 operating windows, 2 iris ports and 3 infusion seals** gives the clinical team full access without disrupting the microclimate. Independent locking front door for security.

CABINET BASE + STORAGE

Integrated cabinet base with locking front doors provides storage for nappies, IV supplies and accessories — keeping the bedside clean and organized.

EXCELLENT DETAILS

Premium engineering in every detail.

Removable anxial DC-Fan

REMOVABLE AXIAL DC FAN

Quiet, brushless DC fan for stable air circulation. Removable design for easy cleaning, disinfection and service — critical for infection control in NICU.

Alumminum alloy material

ALUMINUM ALLOY BODYWORK

Aluminum-alloy structural frame — lighter than steel, corrosion-resistant, easy to clean. Long service life under continuous hospital use.

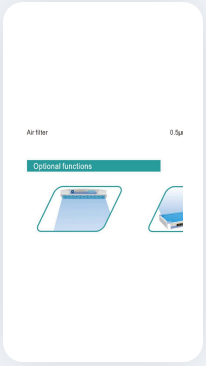
dity continuously adjustable

HUMIDITY CONTINUOUSLY ADJUSTABLE

Step-free humidity dial — fine-grained micro-climate control. Critical for premature infants where skin moisture loss must be tightly managed.

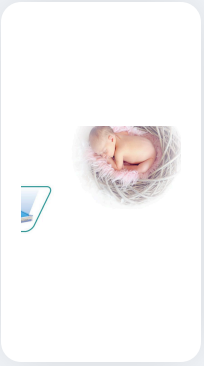
OPTIONAL ACCESSORIES

Phototherapy add-ons.



BL-30D UPSIDE PHOTOTHERAPY UNIT

Top-mounted LED phototherapy lamp for treatment of neonatal jaundice. Mounts on the incubator hood — no separate stand required.



BL-100D DOWNSIDE PHOTOTHERAPY UNIT

Mattress-level LED phototherapy unit. Combine with the BL-30D for double-sided treatment when needed.

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