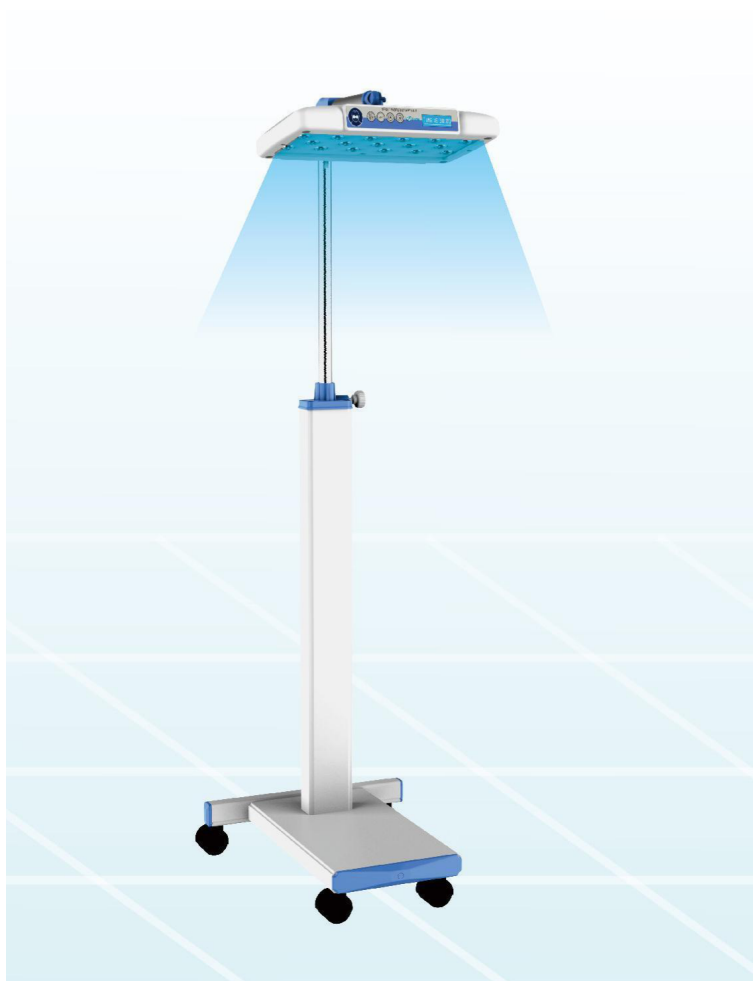


INFANT PHOTOTHERAPY UNIT · LED · 3-INTENSITY ADJUSTABLE · QUIET
FANLESS · CE / ISO 13485

PCB-FL-01



ABOUT THE PCB-FL-01

LED phototherapy for safe, silent jaundice treatment.

The **PCB-FL-01 Infant Phototherapy Unit** is a mobile LED phototherapy lamp designed for the treatment of neonatal jaundice (hyperbilirubinemia). It uses a bank of **17 blue LED bulbs (420–490 nm)** at the clinically effective wavelength, with a **50,000-hour service life** — replacing traditional fluorescent tubes that lose intensity quickly and need frequent service.

Irradiance intensity is adjustable in **3 grades (Low / Medium / High)** so the clinical team can match the dose to the bilirubin level. A built-in **LCD shows therapy time + integral time separately**, with **both count-up and count-down timers** for precise documentation and dose control.

The radiant head pivots **0–180°** and the column extends from **850 mm to 1640 mm**, so the unit pairs with any infant incubator, radiant warmer or baby cradle. **Fanless design** (no noise) keeps the newborn calm during treatment. Four braked castors on an aluminum-alloy + steel base keep the unit mobile and stable.

SPECIFICATIONS

Built to neonatal-grade standards.

MODEL

PCB-FL-01

CONFIGURATION

**Mobile LED
phototherapy unit •
floor stand**

RADIANT ELEMENTS

17 × Blue LED bulbs

RADIANT WAVELENGTH

420 – 490 nm

LED SERVICE LIFE

50,000 hours

INTENSITY GRADES

**3-level adjustable:
Low / Medium /
High**

TOTAL IRRADIANCE
(HIGH)

**4,500 $\mu\text{W}/\text{cm}^2 \cdot 75$
 $\mu\text{W}/\text{cm}^2/\text{nm}$**

TOTAL IRRADIANCE
(MIDDLE)

**3,200 $\mu\text{W}/\text{cm}^2 \cdot 53$
 $\mu\text{W}/\text{cm}^2/\text{nm}$**

TOTAL IRRADIANCE
(LOW)

**1,450 $\mu\text{W}/\text{cm}^2 \cdot 24$
 $\mu\text{W}/\text{cm}^2/\text{nm}$**

EFFECTIVE SURFACE
AREA

**400 × 300 mm
(measured at 360
mm)**

RADIANT HEAD SIZE

380 × 220 mm

HEIGHT ADJUSTABLE
RANGE

**850 mm – 1,640
mm**

PITCHING ANGLE OF
HEAD

0 – 180°

DISPLAY

**LCD · therapy time
+ integral time
(separate)**

TIMER MODES

**Count-up + Count-
down**

COUNT-DOWN TIMER
RANGE

30 min – 48 h

INTEGRAL TIME RANGE

0 – 99,999.9 h

TIME ACCURACY

1 min / 12 h

NOISE LEVEL

**Fanless · silent
operation**

BASE

**Aluminum alloy +
steel · 4 castors
with brake**

POWER SUPPLY

**AC 110 – 240 V · 50
/ 60 Hz**

POWER INPUT

60 VA

OPERATING
TEMPERATURE

+18 °C to +30 °C

OPERATING HUMIDITY

30 – 75 %

OPERATING PRESSURE

700 – 1060 hPa

STORAGE TEMPERATURE

–10 °C to +55 °C

STORAGE HUMIDITY

≤ 95 %

STORAGE PRESSURE

500 – 1060 hPa

PACKAGE SIZE

CERTIFICATIONS

94 × 58 × 18 cm ·
N.W. 10 kg · G.W.
12.6 kg

CE 0197 · ISO
13485:2016 · TÜV
Rheinland

KEY FEATURES

Engineered for neonatal jaundice treatment.

17 × BLUE LED BULBS

Bank of 17 high-intensity blue LEDs at **420–490 nm** — the clinically optimal wavelength for converting bilirubin. **50,000-hour** service life vs only ~2,000 hours for traditional fluorescent tubes.

3-LEVEL INTENSITY (LOW / MEDIUM / HIGH)

Adjustable irradiance from **1,450 to 4,500 $\mu\text{W}/\text{cm}^2$** — match the dose to the clinical protocol and bilirubin level. High mode delivers intensive phototherapy.

EQUAL LIGHT DISTRIBUTION

Uniform high-intensity light across the effective surface area (**400 × 300 mm at 360 mm**) — every part of the newborn's exposed skin receives consistent dose.

LCD DISPLAY + DUAL TIMERS

LCD shows therapy time and integral time **separately**. **Count-up** for documentation, **count-down** (30 min – 48 h) for protocol-driven dosing. Integral time range up to 99,999 h.

FANLESS · SILENT OPERATION

LED design produces minimal heat — no cooling fan needed. **Zero fan noise**, no air movement near the newborn, no

ADJUSTABLE HEAD + HEIGHT

Radiant head pivots **0–180°**, column adjusts from **850 to 1,640 mm** — pairs with any incubator, radiant warmer or

infection-control concerns from fan blade dust.

baby cradle. Optimal positioning for every clinical setup.

STABLE MOBILE BASE

Aluminum-alloy + steel support base with **4 castors with brake** — easy to move between rooms, locks securely in place during treatment.

LONG-LIFE LED

50,000-hour LED service life means **5+ years of continuous use** at typical clinical duty cycles. Far lower lifecycle cost than fluorescent or halogen alternatives.

COMPATIBLE WITH

Pairs with any open-care or closed-care unit.

BABY INCUBATOR

Position the radiant head above any closed incubator — PCB-INC-10 / 20 / 30 or any standard incubator. Adjustable height + angle.

INFANT RADIANT WARMER

Pairs with open-care radiant warmers (PCB-IRW-10 / 20) for combined warming + phototherapy treatment.

BABY CRADLE

Use over any newborn cradle, bassinet or nursery bed. Mobile design moves between cribs as needed.

NEWBORN NURSERY

Treat multiple newborns in the well-baby nursery — move the unit between cribs throughout the shift.

CERTIFIED QUALITY

Manufactured under ISO 13485:2016

The PCB-FL-01 is manufactured under **ISO 13485:2016 · TÜV Rheinland** certification, with **CE 0197** mark for the European market. Every unit passes a full safety + functional test before shipping, ensuring compliance with regulatory requirements in every market.

✓ CE 0197

✓ ISO 13485:2016

✓ TÜV Rheinland



Product brochure

Complete PCB-FL-01 data sheet in PDF, ready to print or send to your customer.

[Download brochure \(PDF\) ↓](#)

PDF format · English

**PCB Medical · Kentucky
(USA)**

Industrial Park Av, Suite 30
Louisville, Kentucky 40041
Tel. (502) 333-0006

www.pcbmedical.net

PCB Medical · China

2103 Citic Tower, 1500
Xiangjiang North Road
Changsha, China