

What could go wrong?

Minimize risks to premature infants



Brain damage

Hyperoxia

Hypothermia,
shaking,
shivering

Blindness

Hyperthermia,
heat stroke,
death

Heat loss

Apnea

Hypoxia

Elevated
Intracranial
Pressure (ICP)

Retinopathy of
prematurity

Respiratory
difficulties

Hypernatremia
dehydration

Misdiagnosis

Ear
damage

Skin burns

Minimize risks by testing with the

INCU II Incubator/Radiant Warmer Analyzer

Infants cannot tell you what is wrong, which is why they need a very stable, safe environment to grow, heal, and develop. Incubators are designed to nurture fragile infants by controlling the temperature, humidity, sound, oxygen, and air flow, and also measuring skin temperature.

Parameters that are inaccurate or not within a safe range could have severe and life threatening consequences to a baby. Learn how the INCU II Incubator/Radiant Warmer Analyzer can help minimize these risks:

Incubator temperature

If an incubator is too hot or cold, even by just 2 °C, it can be harmful or even deadly (i.e. hyperthermia, dehydration, heat stroke) to a fragile newborn, causing the baby to expend unnecessary energy to stay warm or cool off. The **INCU II (T1-T5)** can test temperature from 0 °C to 50 °C with ± 0.05 °C accuracy, using five sensors, located 10 cm above a mattress, the space typically occupied by a newborn.

Humidity

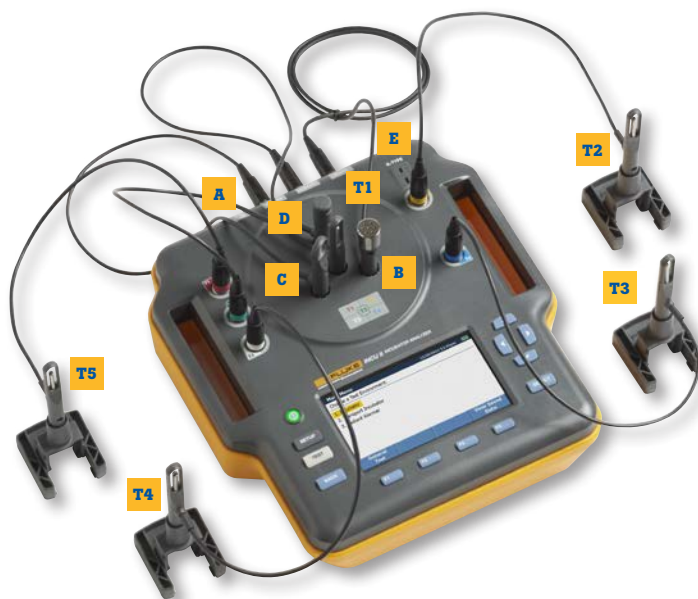
Humidity helps support proper respiratory function and minimize heat and water loss. The **INCU II (D)** can test relative humidity from 0 to 100% with ± 3 % accuracy.

Airflow

An air velocity above 0.35 m/sec increases water loss, which can result in a baby dehydrating. Air flow also helps maintain a consistent temperature throughout an incubator. The **INCU II (C)** can test airflow from 0.2m/sec to 2.0 m/second with ± 0.1 m/sec accuracy.

Sound

To avoid hearing damage, the sound level inside an incubator should be below 60 dbA, and the alarms loud enough to hear over ambient noise. The **INCU II (B)** can test sound pressure from 30 dbA to 100 dbA with ± 5 dbA accuracy.



Oxygen

While too little oxygen can result in brain damage, too much could lead to retinopathy of prematurity or blindness. Babies with heart or lung problems may need increased levels of oxygen, ranging from 21 % to 65 %. Test by using a tool like the **Fluke Biomedical MAX02 PLUS AE Oxygen Analyzer**.

Contact temperature

Anything that is too cold or too hot, which an infant can touch or lie on, can exacerbate medical issues. The **INCU II (E)** can test surface temperatures from 0 °C to 60 °C with ± 0.05 °C accuracy.

Skin temperature

Newborn babies can't modulate their body temperature in response to their environment. A skin temperature probe, taped to the abdomen or other part of an infant's body, enables medical staff to determine a baby's temperature. The **INCU II (A)** can test skin temperature from 0 °C to 50 °C with ± 0.05 °C accuracy.

The INCU II can simultaneously measure environmental parameters, increase productivity, and verify the proper functioning of an incubator. Complying with IEC 60601-2-19, 2-20, and 2-21 standards, the INCU II is portable, accurate, and easy to use. Test today to help ensure the best outcomes for tomorrow's patients.

Learn more about the INCU II
Incubator/Radiant Warmer at
www.flukebiomedical.com/INCU-II