



ProMed

Technology

Equipos médicos, dentales, y de laboratorio.

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Incubadora digital de cuidados intensivos



Modelo IS-4

Rosch

INTENSIVE CARE UNIT INCUBATOR

MODEL IS-4

INTRODUCTION.

Microprocessed control with two operating modes.

- Skin temperature control (servocontrol mode).
- Air temperature control (manual mode).

It also has a servocontrol system for the humidity inside the baby's compartment.

CHARACTERISTICS.

- Three full digits thermometer for skin temperature, with 16.5 to 42°C operating range and 0.1°C resolution.
- Three full digits thermometer for air temperature, with 16.5 to 42°C operating range and 0.1°C resolution.
- Three digits display for selection of the desired working temperature. In manual mode the range of selection is from 28 to 39°C, and in servocontrol mode is from 34 to 38°C. The default values for these settings are 32°C for manual mode and 36°C for servocontrol mode, and they are automatically set when the operator chooses the control mode.
- Electronic (two digits) hygrometer to see the relative humidity percentage inside the baby's compartment, with 0 to 99% operating range and 1% resolution. This display is also used to set the desired operating value, with range between 20 and 95%.
- The humidity control accuracy is $\pm 2\%$.
- In skin temperature control mode the accuracy is $\pm 0.1^\circ\text{C}$ and in air temperature control mode is $\pm 0.2^\circ\text{C}$.
- Low level noise circulating air fan (less than 50 db).
- Interchangeability, within $\pm 0.1^\circ\text{C}$, of the skin temperature sensors.

VISUAL AND AUDIBLE ALARMS.

- Circulating air fan stopped.
- Overtemperature ($>39^\circ\text{C}$). With independent temperature sensor and associated circuitry.
- High temperature. The limit is 1°C over the selected working temperature in both operating modes.
- Low temperature. The limit is 1°C below the selected working temperature in servocontrol mode and 2°C below in manual mode.
- Skin temperature sensor failure.
- Air temperature sensor failure.
- Heater failure.
- Control circuit failure.
- Power failure.
- Battery failure. This alarm is for the rechargeable battery that supplies the power failure alarm (the incubator has an automatic charger for this battery).
- Low water level in the water reservoir for the humidity control.

The high or low temperature alarm has a reset system that stops it for 15 minutes. When this period times out, if the alarm conditions remains, the alarm will start again. During these 15 minutes, and every 3 minutes, the system performs a trend control of the temperature. If this trend is not to right values the alarm will start again, despite the remaining time of the 15 minutes period. The same happens if during the 15 minutes it takes place another alarm condition.

Automatic safeguard:

In servocontrol mode the maximum air temperature is automatically limited to 37°C .

VISUAL INDICATORS.

- Light indicator for the selected operating mode.
- An eight steps bar light to indicate the delivered power from the heater.

HOOD AND MATTRESS.

The hood is made from acrylic. It has a wide intensive care door in the front and another in the rear, four oval doors for arms and six holes for cables and hoses.

The mattress is made from rubber foam. It has a non-toxic, washable, plastic cover.

The mattress tray is radio translucent and it has a tray for x ray film chassis. It also has a continuously variable Trendelenburg and Fowler positions, operated by pushbuttons on the control panel.

The air going inside the hood and over the heater is circulating in closed circuit and the air intake from outside is made through an antibacterial filter. Also the supplementary oxygen is delivered through this filter.

BODY.

The body is made from FRP. This makes it light and with a high mechanical strength. It contains the heater, the forcing air fan, the electronic control, and the air filter compartment. It's very easy to clean and sterilize and it has an all-around antishock protector. All the structure is mounted on a cart with a pedestal type column, with four wheels, two of them with brake, and two chests of drawers with two drawers each.

DIMENSIONS.

Height:	140 cm
Wide:	100 cm
Depth:	57 cm
Weight:	54 Kg

ELECTRICAL REQUIREMENTS.

Voltage: 220 VCA - 50/60 Hz (other values available under request).

Power: 350 VA, including humidity control.

OPTIONAL ACCESORIES

- Double wall
- Arm doors in hood lateral walls.
- Variable height
- Baby scale for incubators.
- IV pole.
- Mattress with protector "nest".
- Upper shelf for monitors.