

Ohio® Model 4300/4400 Infant Warmer Systems

Description and Application

The Ohmeda Ohio 4300 and 4400 Infant Warmer Systems are microprocessor-controlled neonatal thermal regulation systems which provide precise manual and servo control of the neonate's thermal environment. The Model 4300 includes a large, non-elevating bed, while the Model 4400 includes a large, elevating bed. Both models are intended for long term and procedural care, as well as use as an operating table.

Features and Benefits

Control Unit

Microprocessor control maintains the predetermined heating level.

- A selectable pre-heat setting is incorporated (0-25% power without alarm) for pre-warming of the mattress.
- A 20 segment "% POWER" LED bar displays actual power in 5% increments to show the level of power required to maintain the infant's temperature.
- Patient temperature, control temperature and elapsed time displays are digital.
- The control unit provides integrated, progressive, audible and visual alarms.
- The microprocessor controller performs diagnostic self checks on the status of the unit's circuitry.
- On initial power up, the microprocessor checks and verifies all system functions as well as the integrity of the processor.
- The control panel may be reversed to face the back of the unit for use in an operating room.

Bed

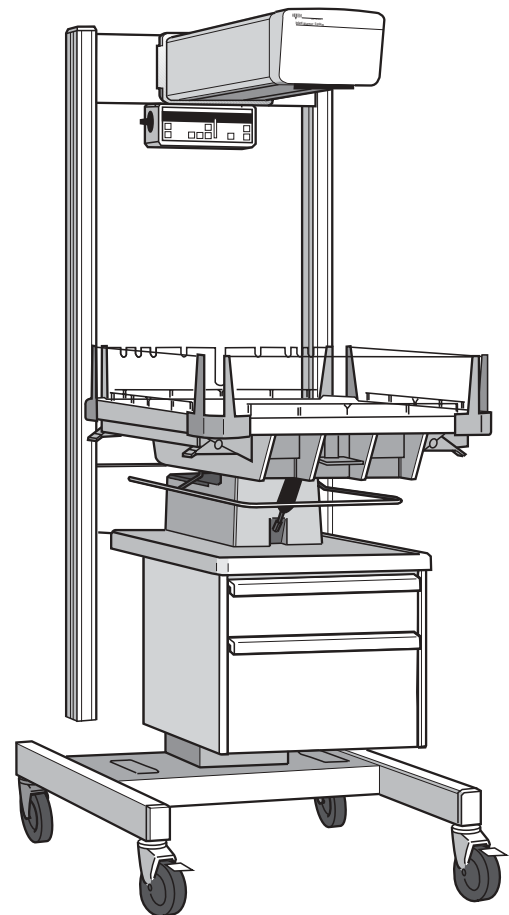
- The hydraulic tilt system provides tilt of up to $\pm 10^\circ$ for positioning in Trendelenburg and Reverse Trendelenburg positions.
- The four bed side panels fold down for complete access to the infant.
- The rear panel includes tubing management slots for retention of ventilation and aerosol tubing.
- The bed incorporates an X-ray Cassette Tray. A grid location marking system on the side panels matches the tray for location of the cassette. Bed construction is radiolucent.
- A chest drainage hanger allows for convenient placement of chest drainage systems.

Heater Assembly

- The radiant heater provides a focused heat source using a cal-rod heating element which directs controlled heat to the bed surface.
- The heater assembly, located above the center of the bed, consists of the radiant heater, parabolic reflector, integral observation light, and visible red alarm indicator light.
- The heater module rotates 90° to the side to facilitate X-ray procedures. The heater automatically shuts off when in this position.

Additional Features

- Ohmeda's dovetail rail system for accessory mounting.
- Rounded casters for easy transporting across carpeting.



Model 4400 Infant Warmer System
(shown with deep drawer package)

Technical Specifications

Dimensions

- Height:** 4300: 185 cm (73 in)
4400: 183 to 203 cm (72 to 80 in)
- Depth:** Both: 114 cm (45 in)
- Width:** Both: 76 cm (30 in)
- Weight:** 4300: Approx. 101 kg (222 lbs)
4400: Approx. 91 kg (200 lbs)
Standard 3 Drawer Pkg: 25 kg (56 lbs)
Rotating 3 Drawer Pkg: 32 kg (70 lbs)
Standard Deep Drawer Pkg: 25 kg (56 lbs)
Rotating Deep Drawer Pkg: 32 kg (70 lbs)
- Foot Print:** Both: 75 X 114 cm (29.5 X 45 in)
- Floor Space:** Both: 8572 sq cm (1327.5 sq in)
- Bed Size:** Both: 61.2 X 76.5 cm (24 X 30 in)
- Bed to Floor:** 4300: 101 cm (40 in)
4400: 98 - 118 cm (38.75 - 46.5 in)
- Bed Tilting:** Both: ±10° Reverse Trendelenburg and Trendelenburg, damped

Operational Environment

- **Operating Temp. Range:** 10°C to 40°C
- **Storage Temp. Range:** -25°C to +60°C
- **Operating Humidity Range:** 0% to 95%

Electrical Power Requirements

- **120 VAC, 50/60 Hz Models:** 115 V ±10%; 6.6 Amps
- **Nominal Power Consumption:** 600 Watts at maximum heater power.
- **Line Voltage Compensation:** Input voltage is monitored and heat output is adjusted to compensate for line voltage variation.
- **Leakage Current:** Less than 100 microamperes with ground wire open.

System Control Characteristics

- **Microprocessor Based Control System:** Self-test function performed at power on and continuously during normal operation.
- **Heater Output:** 0-540 watts power adjustable from 0 to 100% in twenty 5% increments.
- **Patient Control (Servo) Mode:** 35°C to 37.5°C in increments of 0.1°C (95°F to 99.5°F)
- **Manual Mode:** Indicates manual mode heat selection range from 0 to 100% in 5% increments.
- **Temperature Variability:** Less than ±0.3°C
- **Resolution:** ±0.1°C
- **Probe Interchangeability:** ±0.1°C
- **Probe Range:** 30°C to 42°C (71.6°F to 107.6°F)
- Proportional heat control with zero voltage switching to minimize radiated and conducted EMI.
- **Observation Light:** 100 foot candles at center of mattress; estimated lamp life 3000 hours.

Ordering Information

1. Select the model you will be configuring.
2. Do you wish to include the RS232 option?
3. Select your drawer option.

Enter # Below Model 4300 5 Model 4400 6	Enter # Below No 0 Yes 1	Enter # Below No Drawer 0 Std. Three 1 Rot. Three 2 Std. Deep 5 Rot. Deep 6
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Making life a little easier

For more information, contact your Ohmeda Medical sales specialist or authorized agent.

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