

# Orchid

## Infant Transport Incubator



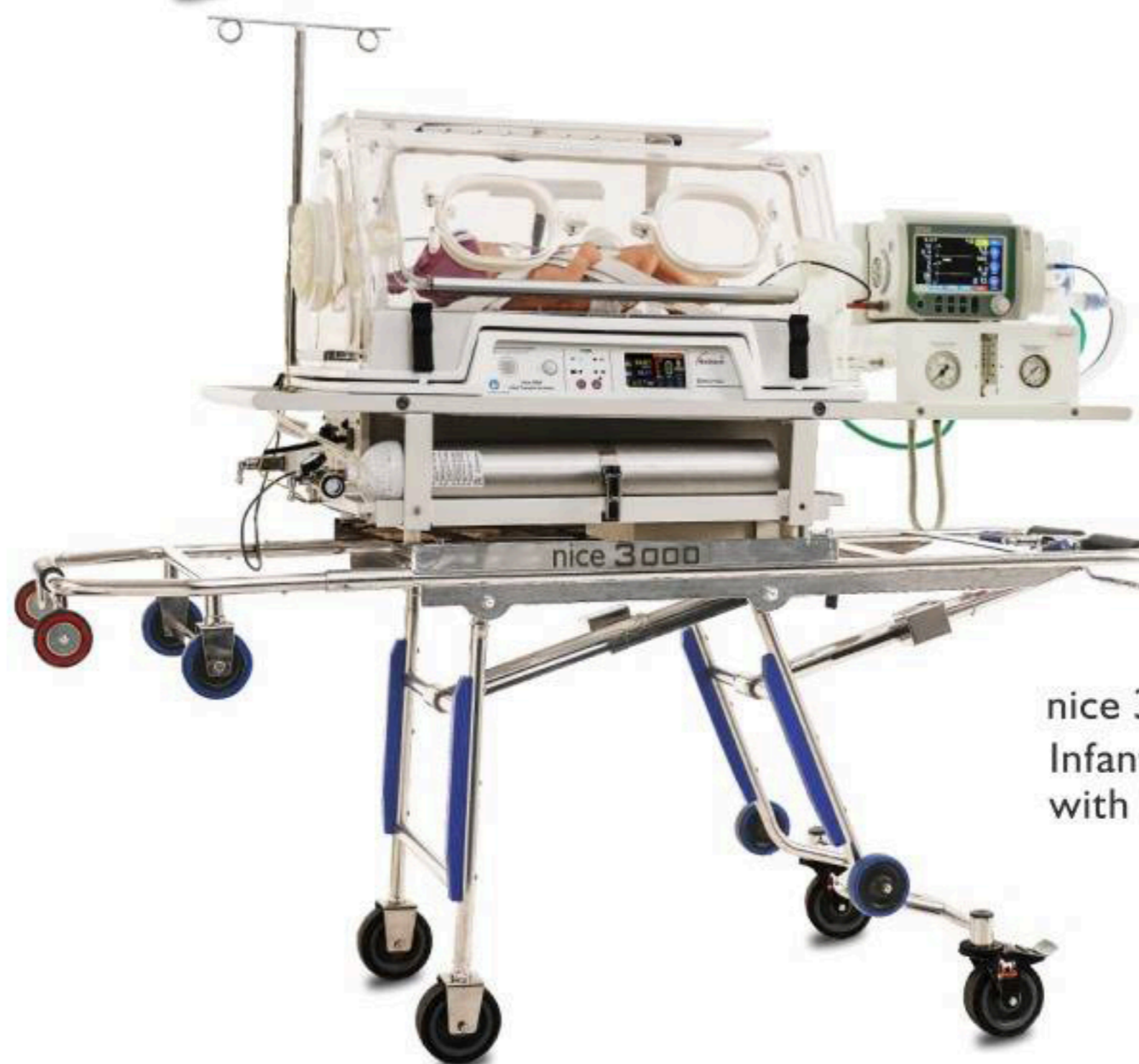
nice 3000

### nice 3000 Infant Transport Incubator

Large Interactive Touch Screen Display  
Servo Skin & Servo Air Mode Control  
Centrifugal Blower for Fresh Gas  
Large Front & Side Access Doors  
ICU Stainless Steel Trolley (Standard)  
Auto-Loading Stainless Steel Trolley (Optional)



Flow Regulator  
80-00-164



nice 3000  
Infant Transport Incubator  
with Transport Ventilator

## Section 5: Specification

Control mode	Servo skin, Servo air, Standby
AC Voltage supply	~230V/50Hz
External Battery Supply	12V, 16A
Battery capacity	12V, 42Ah
Power Rating	220W Max.
Heater Power Rating	150W Max. 175W Max
Circuit breaker	20A/250V
<b>Performance Characteristics</b>	
Temperature rise time	10° C @ 45 minutes
Temperature variability	≤1.0° C
Temperature overshoot	≤2.0° C
Temperature uniformity	≤1.0° C
Air Filter	Removes >99% airborne particles greater than 0.5 micron diameter
<b>Controller Displays</b>	
Battery condition status	Display shows the indication of battery percentage.
Power mode	Illuminates AC, DC and Battery.
Heater power	Display shows the indication of heater output percentage.
Skin temperature °C	Displays infant's skin temperature
Air temperature °C	Displays infant's air temperature
Air set temperature range	23 to 39° C
Skin set temperature range	30 to 37.5° C, override 37.6 to 39° C
Carbon di oxide (CO <sub>2</sub> ) level within the hood	Less than 0.8% when a mixture of CO <sub>2</sub> in air is delivered at 750 ml/min at a point 10cm above the center of mattress
Sensor	Thermistor
Air velocity over the bed	<0.3 m/sec
Noise level inside incubator	<60 dB
Air mode	Accuracy 0.2° C
Skin mode	Accuracy 0.2° C
Thermostat	90 ± 5° C, Manual reset, normally closed
<b>Alarm Indication</b>	
Skin Temperature High	If skin temperature is > 1° C from set temp.
Skin Temperature Low	If skin temperature is < 1° C from set temp.
Air Temperature High	If air temperature is > 1° C from set temp.
Air Temperature Low	If air temperature is < 3° C from set temp.
Air Sensor Disconnect	If air probe is removed or damaged
Skin Sensor Disconnect	If skin probe is removed or damaged
Over Temperature	If skin/air temperature is >39° C in any mode
Heater Fault	If the heater is disconnected or fails

Heater sensor fault	Heat sensor gets disconnected or fails
Fan fault	If the fan is disconnected or fails
Battery fault	Battery fails to operate
Battery sensor fault	Battery sensor gets disconnected
Oxygen sensor Disconnect	Oxygen probe sensor gets disconnected or fails
Humidity sensor Disconnect	Humidity sensor gets disconnected
Air flow fail	Air flow temperature reaches to a high limit
Power Fail	If the power supply is disconnected or fails
Audio paused time	20 minutes
<b>Algorithm of the alarm</b>	
High Priority	975 Hz tone, 4 Pulse burst, Pulse spacing: 0.1s, 0.1s, 0.3s, 0.1s, 0.5s, 0.1s, 0.1s, 0.3s, 0.1s repeat time: 2.5s
Medium Priority	975 Hz tone, 4 Pulse burst, Pulse spacing: 0.2s, 0.2s repeat time: 7.5s
Low Priority	Visual - Blue
<b>Sound Pressure Level</b>	
High priority alarm	72 dB
Medium priority alarm	68 dB
<b>Battery Specifications</b>	
Battery	12 VDC, 42AH, rechargeable (Sealed Lead Acid)
Battery Backup*	3 – 4 hours on 100% battery level (*Test condition: Air mode, 32°C Set point, 23°C ambient)
Life expectancy	200 complete charge/discharge cycles
Minimum charge time	Minimum 10 hours or until charging indicator LED's blinking
Battery shut down voltage	<10.5V
<b>Standard Features</b>	
Access doors	2 nos.
Cylinder mounting provision	2 nos. A type
Trolley	Collapsible Stainless Steel
<b>Optional Features</b>	
External DC Input Cable	Optional
<b>Battery Charging Power Supply (SMPS)</b>	
Input	100-240 VAC, 50/60 Hz, 300 VA
Output	15 VDC, 20 A
MDD/MDR Product Classification	Class II b
<b>IEC 60601-1 Specifications</b>	
Type of Protection against electric Shock	Class 1