TSE

Smart technologies

BABY COMFORT SI – 610

Intensive care incubator

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Baby Comfort SI – 610 is the best choice for intensive care. Intelligent design and a unique combination of incubator functions help to fulfill the highest demands for care of prematurely born infants. Baby Comfort SI – 610 provides a protected and comfortable environment and enables the staff to be always one step ahead of the needs of the small patients, thanks to the integrated monitoring of vital functions.

Monitoring of vital functions
The precise and permanent monitoring of vital functions SpO_2 including pulse (Nellcor Oxymax System), NIBP, and RR guarantees perfect and anticipated medical care.
The integrated monitoring system with adjustable alarm limits continuously records the measured values.

Displaying trends
A microprocessor device protects the optimum microclimatic environment inside the incubators as well as the child's condition.
A colour display with LED illumination displays, in addition to the adjusted and measured values of air and body temperatures, the relative humidity and oxygen concentration and a time record of their trends. The unique system enables comparison of more parameters over time.

Monitoring weight increments
Integrated high precision scales measure and record weight increments of the child in a table and graph.

Patient card
Intelligent software enables easy maintenance of the patient card direct in the incubator and immediate printing.

Access and positioning
External electronic controls enable easy positioning of a patient to Trendelenburg and anti-Trendelenburg positions up to 12° from outside the internal space.

Synergy and compatibility
A system of integrated electric sockets enables the connection of further devices at the workplace.

We protect our future

Care of the youngest and most vulnerable patients is our priority in TSE. Protection and support of newborn babies has been our goal since 1992. Physicians and healthcare staff prefer our products for their reliability, technical advancement and user synergy. Thanks to thorough study of infants' needs and their care in everyday practice, we are able to meet our resolutions, minimize stress, provide absolute comfort to small patients and provide their attendants with a perfectly functional and safe work environment.

Common properties of SI line incubators

Easy care ▪ 1
The practical sliding bed may be turned by 45°at the head side, which facilitates the application of numerous examination and treatment procedures. A holder of hoses for ventilation, exhaustion and food supply, located neatly inside the incubator on a 360° revolving head, makes patient care easier. Care is further facilitated by the oval portholes, which open simply and silently, and the tilting door.

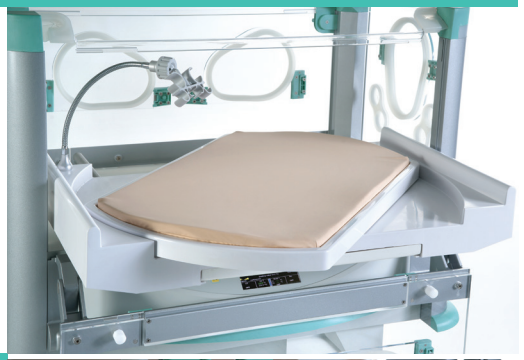
Environment stability and soundproofing ▪ 2
Thermal and acoustic comfort is the basic feature of infant incubators, and the SI line incubators have brought it to perfection. They have a thicker Plexiglas cover that improves thermal insulation and eliminates undesirable stressful influences from the outside. Additional functions of the incubator, like a sliding x-ray panel, are designed to not inhibit the small patient. The inside space of the incubator does not have to be opened when an x-ray cassette is loaded. An air curtain is automatically activated when the incubator door is opened so the stability of the inside environment is ensured.

Alarm announcements ▪ 3
As we care about the safety of small patients we have developed a sophisticated alarm announcement system. Three-stage light signalling exactly reflects the patient's condition: Stage 1: caution, stage 2: warning, stage 3: crisis.

Cleaning and disinfection ▪ 4
The protective environment for newborn patients has to be kept absolutely clean. The unique system of SI line incubators enables the Plexiglas cabinet to be dismantled: the lid can be removed, the front and back doors tilt and the side walls slide out. The inside of the incubator is then perfectly accessible for comfortable cleaning and disinfection.

Compact design
Numerous integrated functions often lead to an increase in the size of incubators. However SI line models have maintained their compact design compared to other products of the same category; their dimensions are also suitable for smaller neonatology workplaces. The incubators are designed to provide enough space for the newborn patients as well as easy handling for their operators.

1



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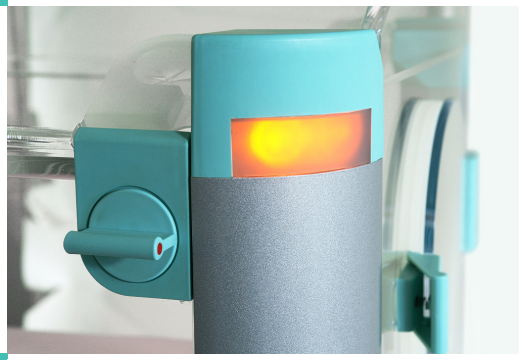

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Control panels

Easy and smart operation improves handling in the SI line incubators. Intuitive "step by step" text navigation facilitates incubator operation with instructions for consequent steps. The high contrast display is easily legible even from a longer distance. The clearly arranged foil keyboard is easy to operate and clean.

Storage spaces

Storage spaces are always useful. An upper shelf with a hook for infusion is suitable for storing accessories while the lower shelf is for healthcare material and all the other things. A Euro rail enables flexible attachment of accessories at the patient's head or feet. An optional box with the noiseless touch closing system "tip on" offers safe and hygienic storage.

Noiseless humidification

An integrated servo-controlled air humidifier offers silent operation. The water level control system announces when refilling is necessary in a timely manner, in extreme situations an alarm announces that the tank is empty. The humidifier is easily accessible for refilling, cleaning and disinfection.

Advanced air circulation

Body and air temperature sensors reliably and permanently monitor the values, which are then precisely processed by an intelligent thermoregulation system according to the patient's current needs.

Access to a patient

Handling always presents stressful situations for a newborn patient. SI line incubators reduce this stress in a very comfortable way. The incubator concept enables access to the patient from all sides. Its positioning system controlled from the outside ensures considerate handling of the baby with no changes to the climate inside the patient space. The system enables Trendelenburg and anti-Trendelenburg positions up to 12°.

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CE 1014

Power voltage	230 V ± 10 %, 50/60 Hz
Input power	with fixed height: 420 VA with adjustable height: 470 VA
Dimensions	
Height	1410 mm
Height (version with height adjustable carriage)	1310 – 1510 mm
Length	950 mm
Width	650 mm
Weight	98 kg
With height adjustable carriage	108 kg
Temperature mode	
Air temperature mode	20.0 – 37.0 °C, with increments of 0.1 °C 37.1 – 38.0 °C, with increments of 0.1 °C
Air temperature setting above 37.0 °C	upon operator's special intervention by pressing > 37 °C key
Body temperature mode	34.0 – 37.0 °C, with increments of 0.1 °C 37.1 – 38.0 °C, with increments of 0.1 °C
Body temperature setting above 37.0 °C	upon operator's special intervention by pressing > 37 °C key
Incubator warming up time by 11.0 °C	25 min.
Alarms – air/body temperature increase or decrease beyond adjusted limit	
O_2 mode	
O_2 concentration adjustment	21 – 80 %, with increments of 1 %
Maximum possible O_2 concentration	80 %
O_2 regulation accuracy	± 1.5 % from the preset value
Alarms – O_2 concentration increase or decrease beyond adjusted limit	
Relative Humidity (RH) mode	
RH concentration adjustment	41 – 90 %, with increments of 1 %
Maximum possible RH in the incubator	90 %
RH regulation accuracy	± 5 % from the preset value
Water tank	1.5 l
Alarms – RH increase or decrease beyond adjusted limit, low level in the humidifier	
Electric bed positioning (Trendelenburg and anti-Trendelenburg 12°)	
Optional accessories	
Scales	
Measurement range	max. 7 kg
Measurement accuracy	± 2 g (from 0 to 2 kg) ± 5 g (from 2 to 7 kg)
Resolution	1 g
Records	weight trends
Integrated vital function monitoring	
SPO_2 and pulse	
Measurement range	0 – 100%
Measurement accuracy	± 3 % ± 1 digit within 40 – 70 % ± 2 % ± 1 digit within 70 – 100 %
Alarms – SPO_2 increase or decrease beyond adjusted limit	
NIBP	
Measurement range	10 – 200 mmHg
Measurement accuracy	± 3 % ± 1digit
Alarms – NIBP increase or decrease beyond adjusted limit	
RR	
Measurement range	0 – 150 breaths/min.
Measurement accuracy	± 1 breath/min. ± 1digit
Alarms – RR increase or decrease beyond adjusted limit	

Height adjustable carriage with shelves · Storage drawers · Double walls · Rail with a shelf and infusion holder · Hose holder · Set of 230 V sockets for additional devices · Cotton blanket for covering the patient space