Dual Incu i

CE 0123

ATOM
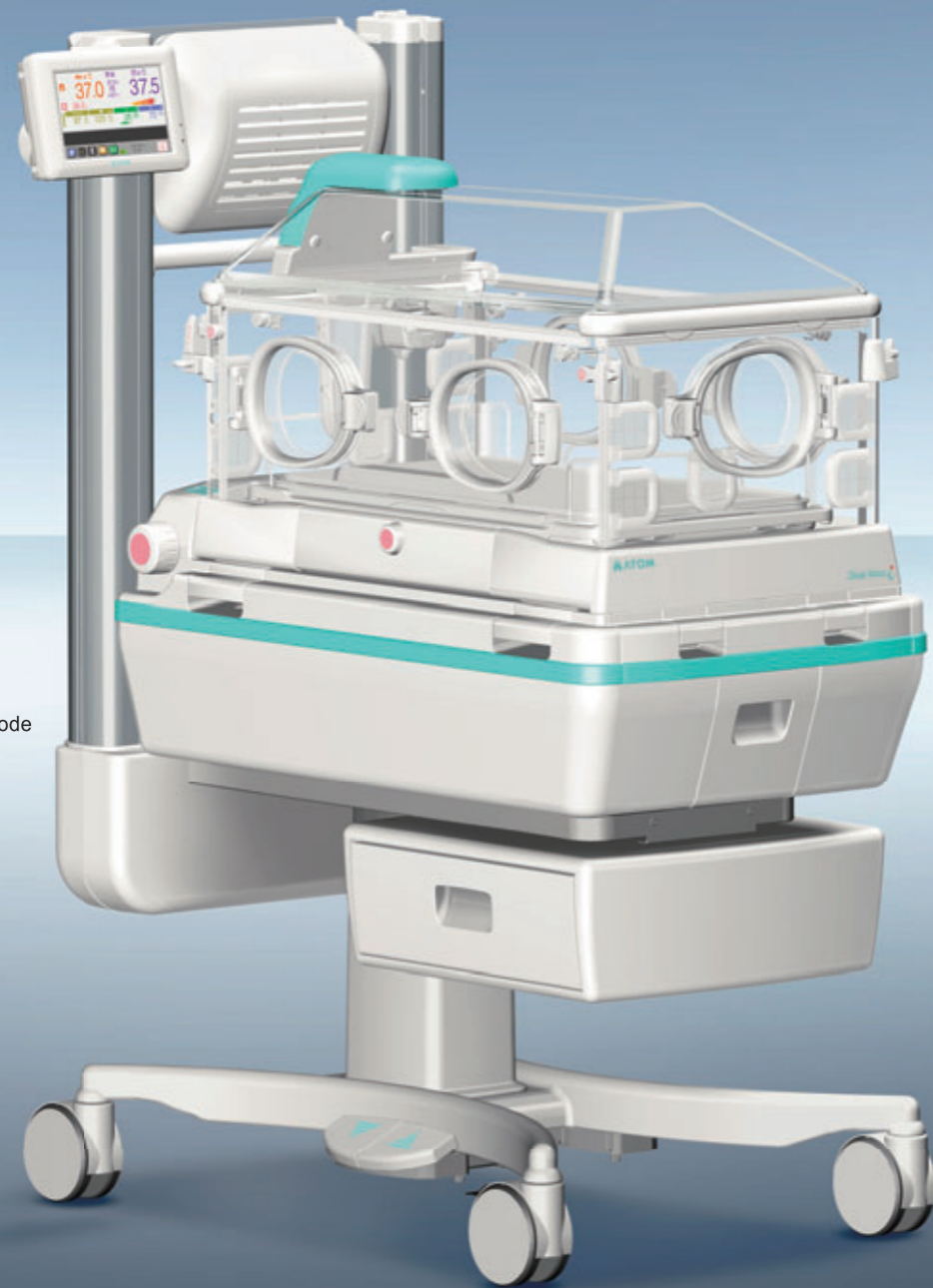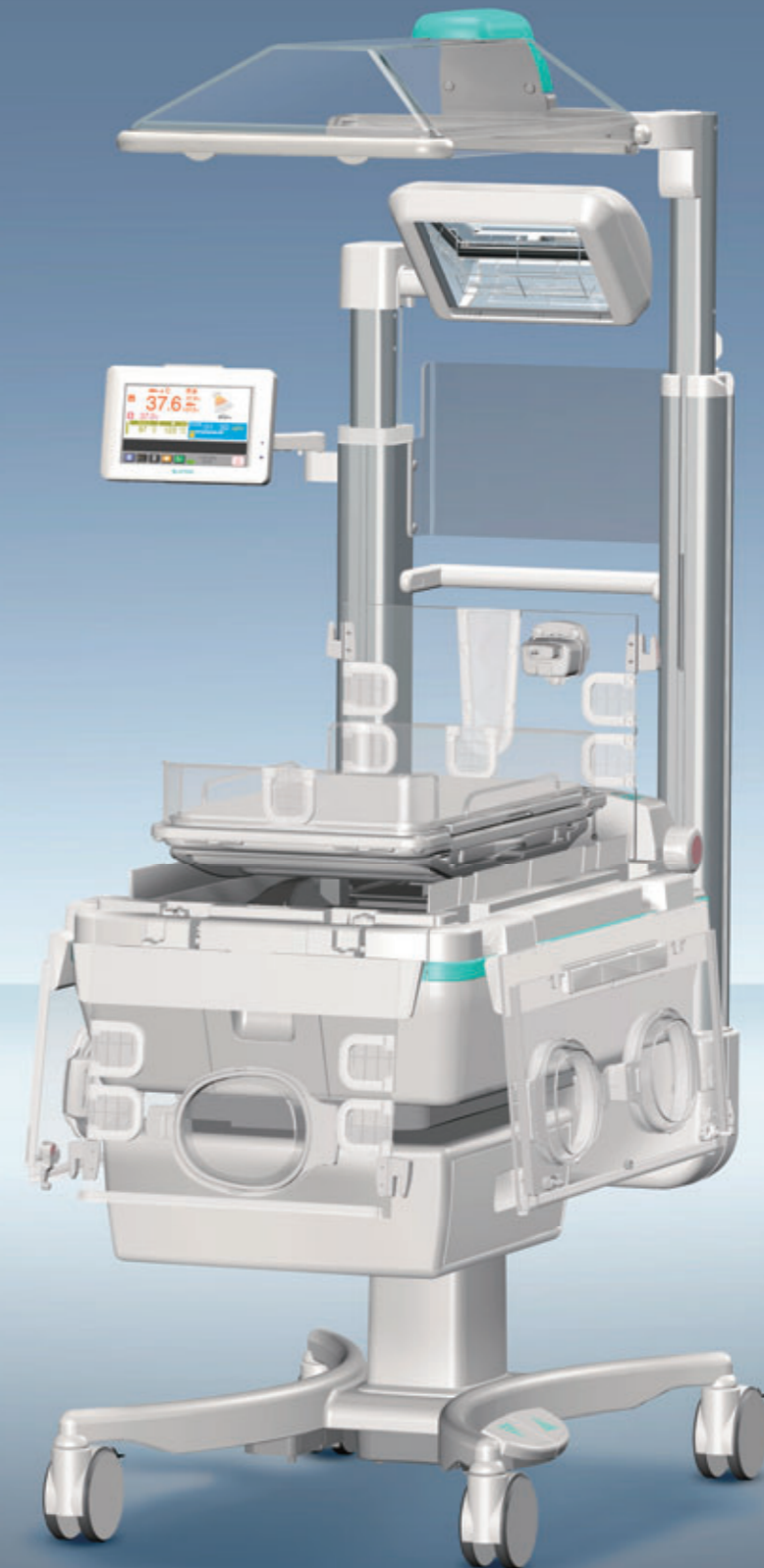
New Generation

The new generation infant incubator has inherited the highest quality features and state-of-the-art technology, meeting the various requirements of the healthcare professional.

Incubator mode

Infant Warmer mode

* The drawer shown is optional

The Dual Incu i can perform in a wider range of hospital settings through the incubator mode and infant warmer mode.

Transport

The same environment in the NICU can be provided even during transportation.

Open-care

Superior performance as an infant warmer enables better medical treatment.

Closed-care

The Dual Incu i reduces the infant's stress and supports daily care giving.

◆ **Power Pack i**

Power pack i can maintain appropriate temperature and humidity while in motion, unexpected power failure or power problems.

The advanced, high quality features of
an incubator facilitate daily care giving.

Basic performance as an incubator.

◆ **X-Ray cassette tray port**

An external X-Ray cassette tray prevents a drop in the incubator air temperature. The X-Ray cassette can be drawn out from either side of the incubator without opening the front admittance panel.
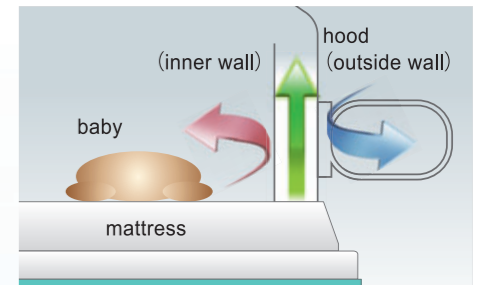
◆ **Double lock system**

The double lock system of the admittance panel prevents the infant from falling out of the incubator accidentally.

◆ **Air curtain of access port**

Air curtain to minimize a drop in the incubator air temperature. The air curtain prevents ambient air from entering the incubator even when the snap-open access ports are opened.

hood
(inner wall)   (outside wall)

baby

mattress

◆ **Mattress platform tilting function**

The mattress platform can be tilted without opening the front admittance panel.
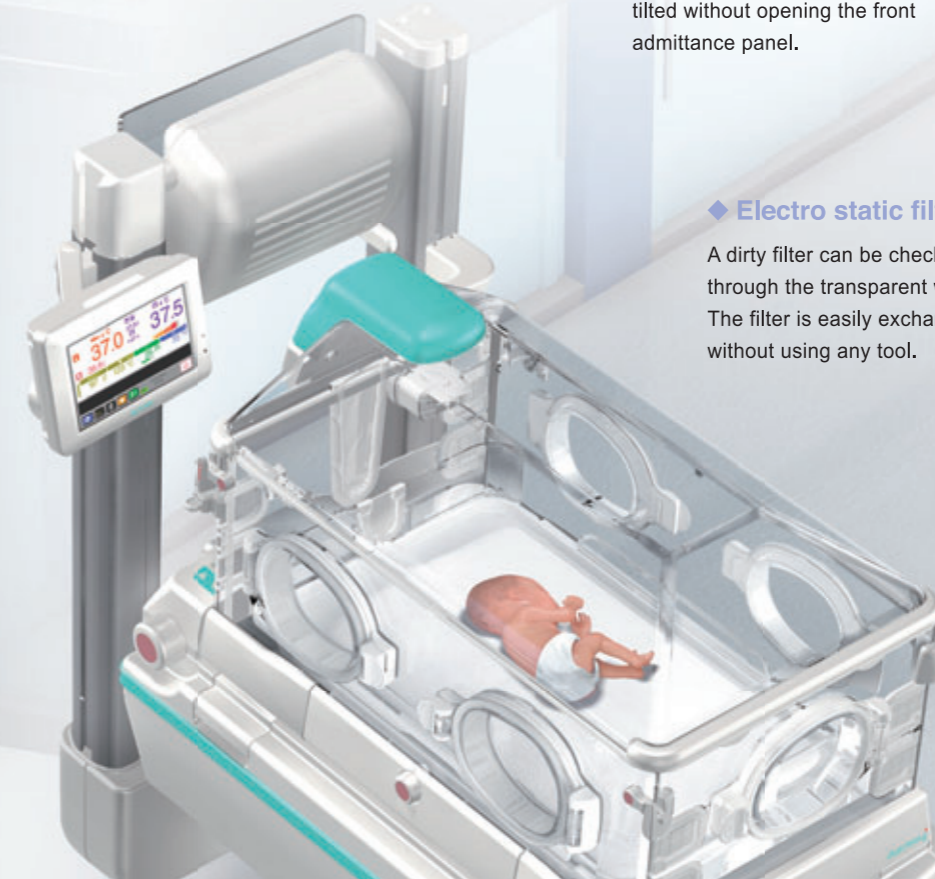
◆ **Electro static filter**

A dirty filter can be checked through the transparent window. The filter is easily exchanged without using any tool.

◆ **Excellent visibility**

Excellent visibility is available from the large transparent hood even during humidification.

◆ **Compact design**

The compact size enables you to minimize the risk of infection when accessing to the infant.

Work efficiency of the medical staff is improved.

◆ Make the utmost use of workspace around the incubator

Peripheral equipment can be easily mounted. Data can be communicated to external devices such as bedside monitors.

◆ Touch control panel

Color display offers intuitive operation and easy identification of each parameter.

◆ Trend display

The trend display function helps identify changes in the infant's vital signs and the environment within the incubator.
(Air temperature/Skin temp 1. 2./Relative humidity/
Oxygen concentration/Heater output/SpO₂/Pulse rate)

◆ Weight monitor

The infant's weight can be measured automatically in the incubator and displayed in 1g increments.

◆ Easily detachable humidity chamber

The humidity chamber can be detached and easily cleaned.

◆ Sanitary structure for thorough cleaning of the unit

The component parts of the incubator can be detached and cleaned easily.

Developmental care

The Dual Incu i ensures noise levels are kept to a minimum, maintaining a quiet environment to minimise the infant's stress.

◆ Rotary damper control for quieter operation of the admittance panel

The admittance panel can be dropped down slowly and silently to reduce infant noise stress.

◆ Snap-open access ports can be opened and closed silently

The infant is protected from the stress of acoustic stimulation caused by opening and closing the access ports.

Superior performance as an infant warmer enhances the value of the dual-mode type incubator.

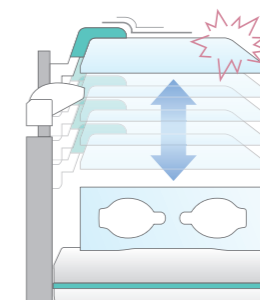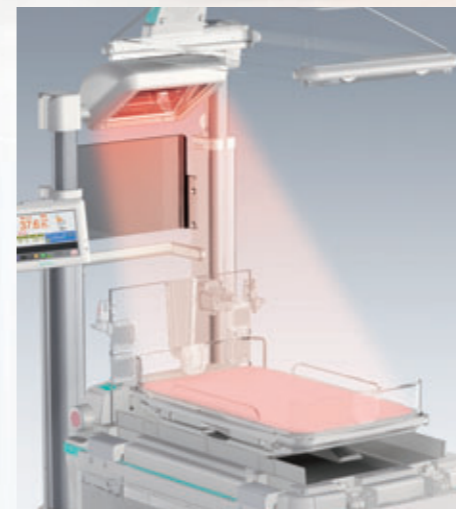_Superior performance as an infant warmer enables better medical treatment._

◆ **Enables prompt treatment at the delivery room and NICU**

◆ **The functions for resuscitation are well-supported**

Resuscitation can be easily performed using the optional resuscitation unit.

◆ **Heating**

The mattress is warmed uniformly and enables stable thermal management.

◆ **Electrical canopy lift**

When the canopy is moved up or down in order to change the operation mode, the operator can stop the up/down movement at any time. Furthermore, if there is any obstacle during the movement, the canopy is automatically stopped for safety reason.

Line Up

Dual Incu *i*	Atom Infant Incubator 100
Atom's code	Description
61600	with O₂ Controller, for AC120V±10%
61601	with O₂ Controller, for AC230V±10%
61602	without O₂ Controller, for AC120V±10%
61603	without O₂ Controller, for AC230V±10%

(add-on)	
Atom's code	Description
61615	Weight Monitor Unit
61621	SpO₂ Unit（Masimo）
61622	SpO₂ Unit（Nellcor）

Specifications

Power requirements	Main body：Customer specified　Power consumption：800VA（Maximum）
Classification	Class I，Type BF
Temperature control (Incubator mode) (Infa Warmer mode)	Skin temperature setting range：34.0～37.5 ℃/93.2～99.5°F（servo control）37.6～38.0℃/99.7～100.4°F（over ride） Skin temperature display range：30.0～42.0℃/86～107.6°F Incubator air temperature setting range：23.0～37.0℃/73.4～98.6°F（manual control）37.1～39.0℃/98.8～102.2°F（over ride） Incubator air temperature display range：20.0～42.0℃/68～107.6°F　Heater output：0～100%（in 10 levels） Alarms：high temperature, set temperature, skin temperature probe Skin temperature setting range：34.0～37.5 ℃/93.2～99.5°F　37.6～38.0℃/99.7～100.4°F（over ride） Skin temperature display range：30.0～42.0℃/86～107.6°F　Heater output：0～100%（in 10 levels） Alarms：set temperature, baby check, skin temperature probe
Humidity control	Relative humidity setting range：40～95%Rh　Relative humidity display range：15～99%Rh　Maximum relative humidity：≧90%Rh Alarms：humidity sensor, low water level, no water, humidity chamber off, set humidity
Air velocity	10cm/s or below
Noise level	Approx. 41dBA（without humidification）　Approx. 44dBA（with humidification）
Mattress tilting range	13°
External display	8.5 inches（TFT-LCD）
Timer　(CPR Timer) 　　　　(Apger Timer)	Interval between each chime：30sec. Operation of the second counter：6sec.×2 Settings of the Apgar chime：1,3,5 and 10min.
Dimensions	Main body (with the HL stand)：68(W)×119(D)×138～226(H)cm Mattress surface：80～120cm in height　Mattress surface (with Weight Monitor Unit)：81.5～121.5cm in height External display：24.5(W)×6.5(D)×16(H)cm　Mattress：65(W)×36.5(D)×2(T)cm
Weight	Approx. 128kg　Approx. 132kg（with Weight Monitor Unit）
Accessories	Skin Temp Probe, 5mm O.D.（Y）..........1　Pneumoclean ....1　Dust Cover ....1 Oxygen Sensor（with O₂ Controller）...2　Piping Connecting Hose 3m（for Oxygen）（with O₂ Controller）...1　Operation Manual ...1

O₂ Controller

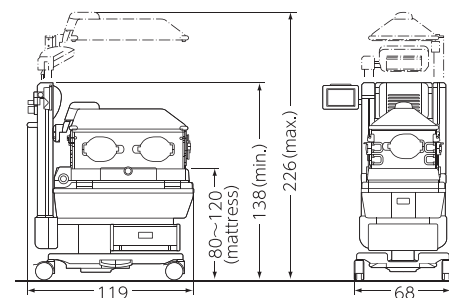| Control mode	Servo control
Setting range	22～65%（in 1% increments）
Display range	15～105%
Measurement accuracy	±2%O₂（15～25%O₂） ±3%O₂（25～100%O₂）
Calibration	21%O₂
Alarms	oxygen sensor, oxygen concentration, oxygen flow rate, oxygen sensor not calibrated

SpO₂ Unit [Masimo/Nellcor] (add-on)

SpO₂	Display range：1～100% Accuracy（in 70-100%）±3% Alarm function setting range： Upper limit 50～99%, OFF Low limit 45～95%, OFF
Pulse rate	Display range：25～240bpm Accuracy（in 25-240bpm）±3% Alarm function setting range： Upper limit 80～240bpm, OFF Low limit 35～180bpm, OFF
Mode (Masimo) (Nellcor)	Averaging time： 4,6,8,10,12,14,16sec. Sensitivity setting： APOD, Normal, Max FastSat：ON, OFF SatSeconds：10,25,50,100, OFF Response：Normal, Fast

Weight Monitor Unit (add-on)

Weighing	7000g
Scale interval	1g（without official Verification） 5g（with official Verification）

Dimensional drawing
Unit：cm