

Technical Data Sheet





1. Performance and Functions

- •The Sunflower Warmer's far-infrared heater efficiently warms the infant, mitigating the strain of decreased body temperature.
- •The device can be controlled in two ways: using manual control to set the heater output, or support control to maintain the infant's skin at a set temperature. Just flick a switch to change to the most appropriate method for the infant's condition.
- An integrated CPR timer supports evaluation of timing during resuscitation, and a built-in second signal helps to calculate heart rate. It can also be switched to an Apgar timer for use with Apgar scoring.
- •The canopy has 170° of horizontal rotary movement (85° left and right), This keeps heat away from the caregiver's head.

2. Operability

- •Settings and measurements are grouped by item for even easier operation.
- All the equipment needed for observation and treatment can be made available beside the radiant warmer, enhancing its functionality and removing the need for a separate equipment table.
- •The large bed offers continuous ±13° forward/rear tilt to facilitate treatment and care. (Hi/Tilt, Cabinet/Tilt)
- The bed height can be adjusted between 83-103cm using the foot switch to allow strain-free care and treatment.(Hi-Low /Tilt)



3. Safety and Sanitation

- Baby guards prevent the infant from falling out. (Hi-Low/Tilt, Cabinet/Tilt, Cabinet Steel/Wood)
- •The guards are equipped with rotary dampers which lower them gently even when released, ensuring no noise stresses to the infant or staff. (Hi-Low/Tilt, Cabinet/Tilt, Cabinet Steel/Wood)
- The supplied pressure-distributing mattress protects the infant from bedsores. (Hi-Low/Tilt, Cabinet/Tilt, Cabinet Steel/Wood)
- •The baby check function provides audible and visual notifications after every 15 minutes of heating, so the infant can be safely left with the heater running. The ability to confirm the duration of heating also helps caregivers to decide on treatment.
- Heating is displayed in 10 levels, enabling easy visual checking.
- The device also has a self-diagnostic test function which runs on startup and automatically checks for any malfunctions.

Specifications

Description			Hi-Low Tilt AC230V	Hi-Low Tilt AC120V	Cabinet Tilt AC230V	Cabinet Tilt AC120V		
Atom's Code		61565	61564	61567	61566			
Power requirements	Main Unit	Rating	AC230V	AC120V	AC230V	AC120V		
	main onic	Frequency	50/60Hz	60Hz	50/60Hz	60Hz		
		Power consumption	700VA					
		Operating voltage range	AC230V ±10%	AC120V ±10%	AC230V ±10%	AC120V ±10%		
	Hi-Low Stand	Rating	AC230V	AC120V		7101201 21070		
	TII-LOW Stand	Frequency	50/60Hz	60Hz	_	_		
		Power consumption	120VA	00112	_	_		
		Operating voltage range	AC230V ±10%	AC120V ±10%	_	_		
Classification		Type of protection	Class I equipment					
		Degree of protection	Type BF applied part					
Control mode		Dog. do di protestion	Microprocessor control					
Temperature		Control mode	Manual control/servo control (selectable)					
Tomporataro		Heater capacity	500W					
		Skin temperature setting range	34.0–38.0°C (in 0.1°C increments)					
		Skin temperature display range	30.0–42.0°C					
		Skin temperature display accuracy	±0.3°C					
		Heater output setting range	0-100% (in 5% increments)					
		Heater output indication	In 10 levels					
		Alarms	Set temperature, Overheat, Baby check, Skin temperature probe, System failure, Power failure					
		Warming time indication	Audible and visual alarms are given every 15 minutes of warming					
		(Baby Check)	when the heater output is set to a predetermined value or higher in the manual control mode.					
		Heat level at the preheat mode	24mW/cm²(Heater output 100%)					
		riodi ioroi di ino pronodi modo	6mW/cm²(Heater output 30%)					
Timer		Timer mode	Apgar, CPR					
		Time display range	0–60 minutes					
		Time display unit	1 second					
Apgar timer		Settings of the Appar chime	1,5 and 10 minutes (factory default) (Settings at 1,3,5 and 10 minutes are also possible)					
	CPR timer	Interval between each chime	30 seconds					
		Operation of the second counter	6 sec. x 2					
Mattress platform til	ting	<u>.</u>	Longitudinal tilt of ±13°(freely adjustable)					
Lighting		Intensity	600 lx					
Caster		Quantity	4 pieces					
		Number of locking caster	4 pieces					
		Diameter	100mm					
		Shape	Dual wheel caster					
		Conductivity	Available					
Weight		·	Approx. 89kg		Approx. 96kg			
Dimensions		Main body (including HL Stand)	640(W) x 1140(D) x 17	70-1970(H)mm	610(W) x 1060(D) x 18	70(H)mm		
		Mattress surface	800–1000mm		900mm			
		Mattress	500(W) x 700(D) x 25(T)mm	500(W) x 700(D) x 25(7	Γ)mm		
Maximum load capa	icity	Dovetail rail	Approx. 20kg at a side					
		I.V. Pole (option)	Approx. 10kg					
			*Total load capacity of the dovetail rail and the I.V. pole is approx. 30kg					
		Drawer (option)	Approx. 3kg					
Operating conditions		Ambient temperature	18–30℃					
		Relative humidity	30–75%					
		Atmospheric pressure	70–106kPa					
Storage conditions		Ambient temperature	0–50℃					
		Relative humidity	30–75%					
		Atmospheric pressure	70–106kPa					
Alarms			Set temperature, Baby	check, Power failure, Sys	tem failure, Skin temperatu	ure probe		
		IEC	IEC60601-1, IEC60601-2-21					
		EN	EN60601-1, EN60601-2-21					
		JIS	JIS T0601-1, JIS T0601-2-21					

Specifications

Sunflower Warmer, Cabinet / Steel Sunflower Warmer, Cabinet / Wood

Description			Cabinet Steel AC230V	Cabinet Steel AC120V	Cabinet Wood AC230V	Cabinet Wood AC120V	
·		61569	61568	61571	61570		
Atom's Code		D-ti					
Power requirements Classification		Rating	AC230V	AC120V	AC230V	AC120V	
		Frequency	50/60Hz 60Hz 50/60Hz 60Hz				
		Power consumption	700VA				
		Operating voltage range	AC230V ±10%	AC120V ±10%	AC230V ±10%	AC120V ±10%	
		Type of protection	Class I equipment				
		Degree of protection	Type BF applied part				
Control mode		Microprocessor control					
Temperature		Control mode	Manual control/servo control (selectable)				
		Heater capacity	500W				
		Skin temperature setting range	34.0–38.0°C (in 0.1°C increments)				
		Skin temperature display range	30.0–42.0°C				
		Skin temperature display accuracy	±0.3°C				
		Heater output setting range	0–100% (in 5% increments)				
		Heater output indication	In 10 levels				
		Alarms	Set temperature, Overheat, Baby check, Skin temperature probe, System failure, Power failure				
		Warming time indication	Audible and visual alarms are given every 15 minutes of warming				
		(Baby Check)	when the heater output is set to a predetermined value or higher in the manual control mode.				
		Heat level at the preheat mode	24mW/cm²(Heater output 100%)				
		Treat level at the preficat mode	6mW/cm²(Heater output 100%)				
Timer		Timer mode	Apgar, CPR				
Tilliel			0–60 minutes				
		Time display range					
		Time display unit	1 second				
	Apgar timer	Settings of the Apgar chime	1,5 and 10 minutes (factory default) (Settings at 1,3,5 and 10 minutes are also possible)				
	CPR timer	Interval between each chime	30 seconds				
		Operation of the second counter					
Lighting		Intensity	600 lx				
Caster		Quantity	4 pieces				
		Number of locking caster	4 pieces				
		Diameter	100mm				
		Shape	Dual wheel caster				
		Conductivity	Available				
Weight			Approx. 96kg Approx. 85kg				
Dimensions		Main body	610(W) x 1060(D) x 187	'0(H)mm			
		Mattress surface	900mm				
		Mattress	500(W) x 700(D) x 25(T)mm				
Maximum load capa	acity	Dovetail rail	Approx. 20kg at a side				
		I.V. Pole (option)	Approx. 10kg				
			*Total load capacity of t	he dovetail rail and the I.V	. pole is approx. 30kg		
		Drawer (option)	Approx. 3kg				
Operating conditions		Ambient temperature	18–30°C				
		Relative humidity	30–75%				
		Atmospheric pressure	70–106kPa				
Storage conditions Ambient ter Relative hu		Ambient temperature	0–50°C				
		Relative humidity	30–75%				
		Atmospheric pressure	70–106kPa				
		Autospheric pressure	Set temperature, Baby check, Power failure, System failure, Skin temperature probe				
		IEC			em ianure, okin temperatul	e probe	
Standards compliar	ice		IEC60601-1, IEC60601-2-21				
		EN	EN60601-1, EN60601-2-21				
		JIS	JIS T0601-1, JIS T0601-2-21				



Specifications

Sunflower Warmer, Stand Sunflower Warmer, Wall Mount Stand AC230V Stand AC120V Wall Mount AC230V Wall Mount AC120V Description Atom's Code 61573 61572 61575 61574 AC120V Power requirements Rating AC230V AC120V AC230V 50/60Hz Frequency 60Hz 50/60Hz 60Hz Power consumption 700VA AC230V ±10% AC120V ±10% AC120V ±10% Operating voltage range AC230V ±10% Classification Type of protection Class I equipment Degree of protection Type BF applied part Control mode Microprocessor control Control mode Manual control/servo control (selectable Temperature Heater capacity 500W 34.0-38.0°C (in 0.1°C increments) Skin temperature setting range Skin temperature display range 30.0-42.0°C Skin temperature display accuracy ±0.3°C Heater output setting range 0-100% (in 5% increments) Heater output indication In 10 levels Alarms Set temperature, Overheat, Baby check, Skin temperature probe, System failure, Power failure Warming time indication Audible and visual alarms are given every 15 minutes of warming (Baby Check) when the heater output is set to a predetermined value or higher in the manual control mode. Heat level at the preheat mode 24mW/cm2(Heater output 100%) 6mW/cm2(Heater output 30%) Time Timer mode Apgar, CPR 0-60 minutes Time display range Time display unit 1 second 1,5 and 10 minutes (factory default) (Settings at 1,3,5 and 10 minutes are also possible) Apgar timer Settings of the Apgar chime CPR timer Interval between each chime 30 seconds Operation of the second counter 6 sec. x 2 Lighting 600 lx Quantity 6 pieces Number of locking caster 6 pieces 75mm (Large), 50mm (Small) Diameter Shape Single wheel caster Conductivity Unavailable Approx. 20ka Weight Approx. 51kg 450(W) x 950(D) x 300(H)mm Dimensions Main body 730(W) x 950(D) x 1840(H)mm 900-1050mm from mattress surface Mattress surface 660-860mm Maximum load capacity Dovetail rail Approx. 10kg at a side I.V. Pole (option) Approx. 10kg *Total load capacity of the dovetail rail and the I.V. pole is approx. 20kg Drawer (option) Approx. 3kg Operating conditions Ambient temperature 18–30°C Relative humidity 30-75% 70-106kPa Atmospheric pressure Storage conditions 0–50°C Ambient temperature Relative humidity 30-75% Atmospheric pressure 70-106kPa Set temperature, Baby check, Power failure, System failure, Skin temperature probe Alarms Standards compliance IEC IEC60601-1, IEC60601-2-21

EN60601-1, EN60601-2-21 JIS T0601-1, JIS T0601-2-21





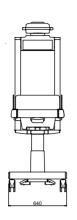
Wall Mount

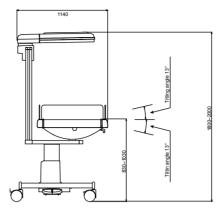
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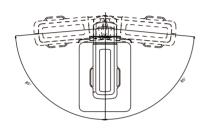
JIS

Dimensional Drawing

·Hi-Low/Tilt

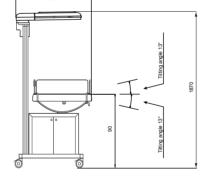


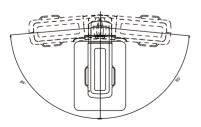




•Cabinet/Tilt

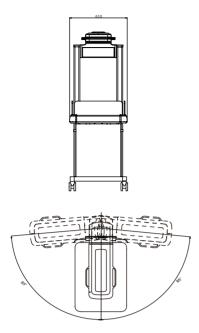


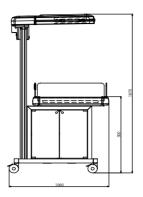




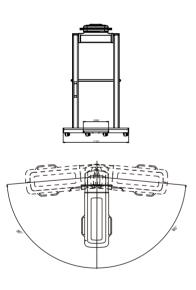
Dimensional Drawing (Unit: mm)

•Cabinet Steel / Wood



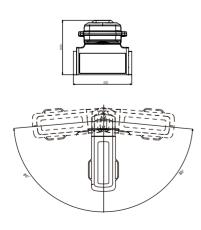


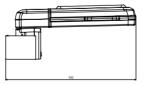






·Wall Mount





Accessories

	Hi-Low/Tilt	Cabinet/Tilt	Cabinet Steel/WoodTilt	Stand	Wall Mount
Skin Temp Probe, 5mm O.D. (Y)	1	1	1	1	1
Mattress Sheet	1	1	1	х	х
Cover Baby	1	1	1	1	1
Cord Holder	2	2	2	2	х
Dust Cover	1	1	1	х	x
Operation Manual	1	1	1	1	1

Options & Supplies

	1.1			
Atom's code	Description			
60883	Skin Temp Probe, 5mm O.D. (Y)			
60882	Skin Temp Probe, 10mm O.D. (Y)			
60312	Cover Baby	80 pcs/box		
60885	Connecting Cable (Y)	for Dispo Skin Temp Probe		
60884	Dispo Skin Temp Probe (Y)	10 pcs/box		
61628	Pressure Dispersion Mattress	for InfaWarmer i/SunFlower		
60895	Mattress	for SunFlower		
60321	Mattress Sheet	5 pcs/pkg		
60871	Tube Holder	for Infa Warmer i/Sunflower/V-505		
60337	Neo Sheets	100 pcs/box		
67100	Baby Card	Pink (50 pcs/box)		
67101	Baby Card	Blue (50 pcs/box)		
61071	Cord Holder	for F-Rail (5 pcs/pkg)		
60984	Shelf	for SunFlower		
60983	Drawer, 2 Layers	for SunFlower		
60988	Drawer	w/ Mounting Bracket,		
		for Infa Warmer i/Sunflower		
61627	Open Rack	for Infa Warmer i/Sunflower		
61642	Drainage Hanger	for Infa Warmer i/Sunflower		
5.51L		(2 pcs/pkg)		
60893	I.V Pole	for F-Rail		
61616	MF-Rail	for F-Rail (Common to Left & Right)		
60306	MF-Rail, 7cm	Pole Mounting Type		
60367	MF-Rail, 26cm	Pole Mounting Type		
60899	Handle	for F-Rail (2 pcs/set)		
60350	Monitor Table for Philips Monitor	for F-Rail		
60349	Monitor Table	for F-Rail		
61617	Tray Set	for F-Rail		
61618	Tray Set (S)	for F-Rail		
60894	Basket	w/ Arm for F-Rail		
60369	Basket	Rail Mounting Type		
61647	Weight Monitor Unit (w/ NAWI Verification)			
61640	Weight Monitor Unit	,		
60217	F-Rail Attachment			
60218	Pole Attachment			
60216	Infa Lite AC100–240V			
60361	BILI-THERAPY Spot Type	Arm Type/for F-Rail/AC100-240V		
60360	BILI-THERAPY Spot Type	Stand Type/AC100–240V		
60370	BILI-THERAPY Spot Type Stand Type/AC100-240V			
60375	BILI-THERAPY Pad Type BILI-Holder for BILI-THERAPY Pad Type			
60376	BILI-Stand	for BILI-THERAPY Pad Type		
60371	Pad (L)	for BILI-THERAPY Pad Type		
60371	Pad (S)	for BILI-THERAPY Pad Type		
60373	Pad Cover (L)	for BILI-THERAPY Pad Type		
00373	r ad Gover (E)	(50 pcs/box)		
60374	Pad Cover (S)	for BILI-THERAPY Pad Type		
00014	1 44 00101 (0)	(50 pcs/box)		
60289	Eye Mask, SS	50 pcs/pkg		
60288	Eye Mask, S	50 pcs/pkg 50 pcs/pkg		
60287	Eye Mask, M	50 pcs/pkg 50 pcs/pkg		
25440	Eye Mask, SS	5 pcs/pkg *except for USA		
25441	Eye Mask, SS			
25441	Eye Mask, M	5 pcs/pkg *except for USA 5 pcs/pkg *except for USA		
68448	Phototherapy Analyzer II	o posiping exception our		
00440	i nototnerapy Analyzer II			

Atom's code	Description			
60363	Resusci Flow	w/ Blender/Rail Mounting Type		
60362	Resusci Flow	Rail Mounting Type		
60982	Resuscitation Unit 104E Type	Stand-Alone Type		
60366	CPR Timer			
60386	Patient Circuit	for Resusci Flow (5 pcs/box)		
60145	Face Mask	for Neonatal (20 pcs/box)		
60146	Face Mask	for Infant (20 pcs/box)		
60298	Test Bag, 50mL	5 pcs/pkg		
60141	Jackson Rees Circuit 0.5L	for Neonatal w/ Suction Port		
60140	Jackson Rees Circuit 0.5L	for Neonatal		
60142	Jackson Rees Circuit 1L	for Infant w/ Suction Port		
61629	Tube for Pressure Measurement	for Infa Warmer i/Sunflower		
61222	Safety Flow OX-248	Rail Mouning Type		
60357	Safety Flow OX-240			
60241	Humidifier Bottle OX-230			
61226	Pressure Regulator OX-231	for Oxygen Cylinder, Screw Type		
61227	Pressure Regulator OX-232	for Air Cylinder, Screw Type		
60351	Hose Set for Oxygen and Air, 2m			
60352	Hose for High-Pressure Oxygen, 1m			
60353	Hose for High-Pressure Air, 1m			
61225	Safety Flow OX-202	for Cylinder (w/ Pressure Regulator)		
60895	Cylinder Rack for F-Rail			
60846	Atom Head Frame			
60220	OXYPOD II			
60268	Neck Pad	for OXYPOD II (5 pcs/pkg)		
60300	Connecting Hose for Piping			
60356	Yox Model S401D (Liner Type), 500mL			
60355	Dispo Liner, 500mL	for S401D, Suction Canister		
		(30 pcs/box)		
61619	Suction Canister, 500mL For S401D			
61228	Yox Model S401A Aspirator, 1,200mL			
62140	ATOM SYRINGE PUMP S-1235	AC220-240V *except for USA		
62145	ATOM SYRINGE PUMP S-1235	AC120V *except for USA		
60078	ATOM FEEDING SYRINGE HOLDER			

Manufacturer: ATOM MEDICAL CORPORATION

3-18-15, Hongo, Bunkyo-ku, Tokyo, JAPAN http://www.atomed.co.jp

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