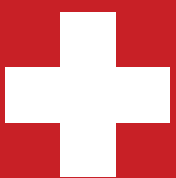


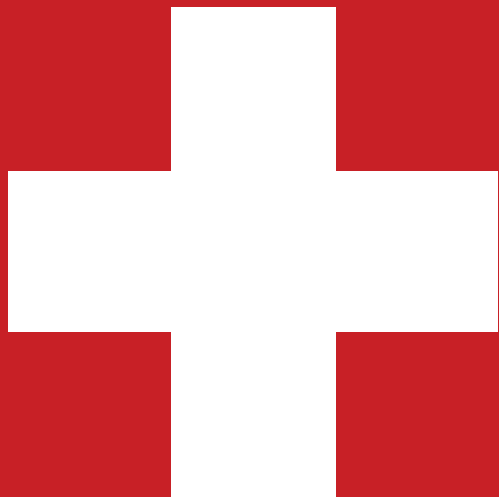
Neonatology – proven technology



Climb to the peak
of the highest Swiss mountain ...



... trusting all the while in Ardo!



Premature babies – some as light as a feather, would fit in the palm of your hand. As a professional you care passionately about these tiniest of patients. There is no mountain too high, no challenge too demanding – in the end there is only one goal: to give the baby the best possible start in life. Parents place their trust in you – just as you place your trust in us and our products.

More than twenty years of experience in Neonatology, Suction Technology, and Breastfeeding products make us reliable partners in this ascent. Our commitment and our strongly connected support team of professionals bring our product development ever closer to the pinnacle of achievement.

Read on, and join our team in the ascent described in the next pages.

Your Ardo Team

Neonatology – treatment and love

They are tiny and vulnerable, and yet they are unique little individuals. Some need a jump-start, some can get going without any medical help. We join you in the care of those babies who do need medical support. Our contribution: reliable and user-friendly Neonatology products. Often details make an important difference: the devices feature an overall gentle lilac tone to provide a restful ambience in the fast paced daily routine; lilac is the colour of gratitude and hope.

Amelie and
Amelie star



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Warming mattress

Amelie incubators – Security for the tiniest

Actually these babies should still be in their mothers' wombs – protected against noise and cold, bright lights and many hands. No one can give these little ones back the precious time they have lost. However, with Amelie incubators we can conjure up a little ray of sunshine along the way.

Characteristics – Amelie incubators

- Triple Wall-Technology for high temperature stability, optimal insulation, calming environment and reduced condensation on the hood
- Very quiet – noise level below 45 decibels
- Intelligent alarm system
- Measuring of water evaporation – high degree of accuracy due to the separator in the water reservoir
- Hood tubing grommets and seals are made of premium quality, durable, UV-resistant and sterilisable silicone
- Inclination of the lying area adjustable $\pm 8^\circ$ (using the wedge mattress (accessory) the inclination can be increased by $\pm 4^\circ$ to a maximum of $\pm 12^\circ$)



ones





Intelligent details – reliable technology

- ① The intelligent Sensor-Box with a comprehensive alarm system provides maximum security for the tiniest patients – and the easiest control for carers.
- ② The Ardo AirStream technology ensures draught-free air circulation and uniform ambient heat. Temperature fluctuations when opening the doors/flaps are reduced by the "air-curtain". The Triple Wall-Technology on the front and rear doors provides optimal insulation, and reduces the condensation on the hood. Amelie incubators stand for safe warmth and best possible conditions in neonatology.
- ③ Settings for air, skin temperature, humidity and weight (optional) are controlled by the microprocessor, values to be selected via the digital menu on the front of the unit. Amelie has a simple oxygen monitoring system. On the Amelie star, the monitoring and control of oxygen concentration is shown on the display.
- ④ Both models have an integrated x-ray tray.
- ⑤ Treatment is facilitated by access through both the front and rear doors, and by the five arm-access openings and an iris diaphragm.
- ⑥ The material selected for the seals and tubing grommets is UV-resistant and sterilisable high-tech silicone, emphasising our awareness of and demand for premium quality. We also pay special attention to the mattress, which has a premium quality, breathable Dartex cover.
- ⑦ Electrical height adjustment is available as an option on both models.

Accessories – individual choice

Baby scale



Baby remains in the incubator –
no unnecessary moving

Monitor tray



Turnable monitor tray

Compartment



Two drawers
max. load 4 kg per drawer

Wedge mattress



For extra inclination of the lying area
by $\pm 4^\circ$ up to a max. of $\pm 12^\circ$

Infusion rod



Adjustable for 2 infusions

Tube holder



Clear tube feed – for better visibility

Storage tray



Storage tray inside the hood

Protective cover



Protects baby from unwanted light

Technical data	Amelie	Amelie star
Operating parameters		
<u>Temperature</u> Air: setting range / special setting range Skin: setting range / special setting range Temperature variability / skin sensor accuracy Display resolution Trend display / measuring rate for trend	25–37 °C / 37–39 °C 34–37 °C / 37–38 °C ≤ 0.5 °C / ≤ 0.3 °C 0.1 °C 2, 4, 8, 12, 24 h / 1 min	
<u>Humidity</u> Water reservoir capacity / operating time per litre Setting range Display accuracy Display range / resolution Trend display / measuring rate for trend	1500 ml / > 20 h at 60 % RH 0–90 % RH in steps of 1 % ± 6 % RH (10–90 % at 20–40 °C) 0–99 % RH / 1 % 2, 4, 8, 12, 24 h / 1 min	
<u>Baby scale (optional)</u> Weight range / weight display accuracy / resolution Trend display / measuring rate for trend	100–8000 g / ± 10 g / 1 g 7 days, 2–7 weeks / 1 h	
<u>Oxygen non-regulated inlet (Amelie)</u> Setting range / display accuracy Display range / resolution Trend display / measuring rate for trend	– / ± 3 % 0–99 % / 1 % –	– – –
<u>Oxygen regulated inlet (Amelie star)</u> Setting range / display accuracy Display range / resolution Trend display / measuring rate for trend	– – –	20–60 % in 1 % steps / ± 3 % 0–99 % / 1 % 2, 4, 8, 12, 24 h / 1 min
General		
Mains voltage / frequency / power consumption Working area: temp. / humidity / atmospheric pressure Connections at the device Height adjustment	230/240 VAC ± 10 % / 50/60 Hz / 1840 VA max. 20–30 °C / 30–75 % RH / 700–1060 hPa Mains socket, 3 auxiliary sockets, O ₂ inlet and O ₂ servo optional, 200 mm electrical	
Alarms		
Temperature variability: skin/air regulation Over temperature skin regulation / air regulation control Humidity control / Oxygen control Power failure	± 1 °C / ± 3 °C 40 °C / 38 °C at ≤ 37 °C and 40 °C at > 37 °C ± 15 % / – yes	± 1 °C / ± 3 °C 40 °C / 38 °C at ≤ 37 °C and 40 °C at > 37 °C ± 15 % / ± 5 % yes
Hood		
Number of doors / arm access openings / iris diaphragm / tube grommets Noise level (interior) Lying surface air flow	2 / 5 / 1 / 10 < 45 dBA ≤ 0.12 m/s	
Dimensions / Weights		
Length x Width Height fixed / with height adjustment Height fixed lying surface / with height adjustment Height hood Opening front and back doors (L x W) Lying surface (L x W) / possible inclination Weight without / with height adjustment	1060 x 680 mm 1390 mm / 1350–1550 mm 970 mm / 930–1130 mm 420 mm 850 x 340 mm 760 x 380 mm / ± 8° approx. 100 kg / approx. 110 kg	
Compliance	Complies with Medical Devices Guideline 93/42/EEC	

Amenic – intensive care tailor-made

Comfortable and pleasant warmth surrounds the tiny patients in the Amenic intensive care station. Babies do not experience anything of the excitement and commotion around them. The soothing warmth encourages calm slumber and dreams of a thousand twinkling stars. You care for these tiny patients with dedication and commitment, and we are here for you at this time. Our Amenic open intensive care system suits the delivery room, postpartum care and neonatology.

Characteristics – Amenic intensive care system

- Very low maintenance costs
- Robust, durable and established worldwide
- New harmonised co-ordinated colour scheme
- Optimal patient access via the secured, hinged protective sides
- Warming lamp pivots in both directions up to 60°
- Quartz heating version controlled by skin temperature
- Ceramic heating version with manually controlled temperature
- Amecosy warming mattress for improved control of the ambient temperature



Amenic – optimal treatment

Amenic – the proven, open intensive care system which exactly meets your requirements. There are four models to choose from and various accessories. Safety and user-friendliness are features of all models: optical and acoustic alarms ensure safe and reliable monitoring. The pivoting heating arm, and the fold-down security sides (one-handed procedure) allow the staff the necessary room to manoeuvre during treatment.



Skin temperature control heating
or manual temperature control

Amenic supreme

Amenic e-servo

Continuous electrical height adjustment

Without height adjustment

Quartz radiant heater

Radiant heat in the mid-infrared range

The heater can be swung sideways to allow easier access for X-rays

Visual and audible alarms for reliable and safe monitoring

Inclinable lying area $\pm 10^\circ$

May be combined with the Amecosy warming mattress

Integrated X-ray compartment

All protective sides fold down



Manual temperature control

Amenic amemnc

Amenic amemnc e

Amenic s (see Page 20)

Continuous electrical height adjustment

Without height adjustment

Ceramic radiant heater

Radiant heat in the mid-infrared range

The heater can be swung sideways to allow easier access for X-rays

Visual and audible alarms for reliable and safe monitoring

Inclinable lying area $\pm 10^\circ$

May be combined with the Amecosy warming mattress

Integrated X-ray compartment

All protective sides fold down

Accessories Amenic – individual choice

Monitor tray



Swivel tray

Compartment



Two drawers,
max. load 4 kg per drawer

Infusion rod



Enough room for several IVs

Amecosity heating mattress



For an optimal thermal environment

Oxygen system



For secure initial care

Combined O₂ humidifier /
suction device



Injector suction unit

Apgar timer



Reliable instrumental aid for assessing the
status of newborns

Accessory rail



Side-mounted fixing rails

Technical data	Amenic supreme	Amenic e-servo	Amenic amemnc	Amenic amemnc e
Component specifications				
Heating element	Quartz	Quartz	Ceramic	Ceramic
Heating control	skin sensor / manual	skin sensor / manual	manual	manual
Swivelling range of radiant heater	± 60°	± 60°	± 60°	± 60°
Observation lamp	12 VAC / max. 50 W	12 VAC / max. 50 W	12 VAC / max. 50 W	12 VAC / max. 50 W
Lying surface degree of inclination	± 10°	± 10°	± 10°	± 10°
Height adjustment	200 mm, electrical	–	200 mm, electrical	–
General				
Heating power	500 W		2 x 325 W max.	
Set value range skin temperature	34–37.9 °C		–	
Set value range heating, manual	0–100 %		6 levels	
Display range LCD	0–99.9 °C		–	
Display range LED	–		50–100 %	
Mains voltage	230 VAC		230 VAC	
Mains frequency	50/60 Hz		50/60 Hz	
Power consumption	1150 VA		980 VA	
Alarms				
Power failure	yes		yes	
Skin temperature deviation	± 0.8 °C		–	
Skin sensor over temperature	39–39.5 °C		> 50 % and > 15 min	
Skin sensor defective, short circuit or not plugged in	yes		–	
Dimensions / Weight				
Length x Width	1200 x 750 mm	1200 x 750 mm	1200 x 750 mm	1200 x 750 mm
Height min. / max.	1830 mm / 2030 mm	1940 mm / 1940 mm	1750 mm / 1950 mm	1860 mm / 1860 mm
Height lying surface min. / max.	880 mm / 1080 mm	990 mm / 990 mm	880 mm / 1080 mm	990 mm / 990 mm
Lying surface (L x W)	770 x 610 mm	770 x 610 mm	770 x 610 mm	770 x 610 mm
Distance lying surface to radiant lamp	800 mm	800 mm	660 mm	660 mm
Ground clearance	160 mm	160 mm	160 mm	160 mm
Weight	approx. 125 kg	approx. 115 kg	approx. 125 kg	approx. 115 kg
Compliance	Complies with Medical Devices Guideline 93/42/EEC			

Amemnc – controlled warmth

Almost like nature's soothing rays of sunshine: the manually controlled warmth is supplied by two durable ceramic heating elements. The safety of the tiny patient is safeguarded by alarms and automatic re-set of the temperature. The space efficient Amemnc stands on a stable trolley, and is also available for wall- or ceiling-mounted models. The radiant heater can be swivelled to make work easier. Amemnc is also ideal over warming cots, delivery beds and changing tables. Amemnc also suits examination areas in hospitals and medical practices.

Characteristics – Amemnc radiant heater

- Ceramic radiant heater, swivelling
- Integrated, glare-free observation lamp
- Optical and acoustic alarm system
- Flexible applications with mobile stand, ceiling- or wall-mounted



Technical data	Amemnc
Component specifications	
Heating element	Ceramic
Observation lamp, swivelling	12 VAC / max. 50 W
Mobile stand	optional
Wall mounting	optional
Ceiling mounting	optional, according to customer specifications
General	
Heating power	2 x 325 W max.
Irradiance IR 350–1400nm	18.4 mW/cm ² ± 1.8 (at heating power 50 %); 25.6 mW/cm ² ± 2.6 (at heating power 100 %)
Irradiance IR-A 780–1400nm	0.15 mW/cm ² ± 0.02 (at heating power 50 %); 0.18 mW/cm ² ± 0.02 (at heating power 100 %)
Set value heating	50–100 % in 6 levels
Display range LED	50–100 %
Mains voltage / mains frequency	230 VAC / 50/60 Hz
Power consumption	800 W max.
Alarms	
Over temperature	> 50 % and > 15 min
Power failure	yes
Dimensions / Weight	
Dimensions radiant heater housing (L x W x H)	710 x 250 x 80 mm
Variable height underside of radiant heater housing	1520 / 1570 / 1620 / 1670 mm (with mobile stand)
Min. clearance (lying surface to radiant heater)	660 mm
Dimensions mobile stand base (L x W x H)	700 x 600 x 100 mm
Weight radiant lamp	7.8 kg
Weight with wall mounting / with mobile stand	10 kg / 28 kg
Weight with ceiling mounting	depending on the length of the ceiling mounting
Compliance	Complies with Medical Devices Guideline 93/42/EEC  0123

Amenic s – gentle warmth

Amenic s: hard shell – soft core. The premium quality quartz radiant heater gently provides evenly distributed warmth. Thermal regulation is controlled by the skin temperature or manual temperature control. Amenic s is so flexible, has so many applications that it is ideal for use in open care stations, delivery beds and resuscitation facilities.

Characteristics – Amenic s radiant heater

- Premium quality quartz radiant heater
- With automatic skin temperature regulation
- Uniform warmth distribution
- Radiant heater pivoting ($\pm 60^\circ$)
- Intuitive to use
- Alarm system at lower or over temperature
- Very low maintenance costs due to proven, reliable system
- Robust, durable and established worldwide



Technical data	Amenic s
Component specifications	
Heating element	Quartz
Heating regulation	skin sensor / manual
Heating element swivelling range	± 60°
Observation lamp	12 VAC / max. 50 W
Height adjustment	220 mm, mechanical
General	
Heating power	500 W
Set value range skin temperature	34–37.9 °C
Setting range manual heating power regulation	0–100 %
Display range LCD	0–99.9 °C
Mains voltage / Mains frequency	230 VAC / 50/60 Hz
Power consumption	1150 VA
Alarms	
Power failure	yes
Skin sensor set temperature variation	± 0.8 °C
Skin sensor over temperature	39–39.5 °C
Skin sensor defect, short circuit or not connected	yes
Dimensions / Weight	
Radiant heater (L x W)	1050 x 750 mm
Height min. / max.	1680 mm / 1900 mm
Floor clearance	100 mm
Weight	approx. 65 kg
Compliance	Complies with Medical Devices Guideline 93/42/EEC 





Amelux – effective light

The first rays of the sun appear from behind the mountain. How refreshing, how wonderful. Babies cannot feel this natural warmth, but Amelux can bring them healthy light for the treatment of hyperbilirubinaemia. Can be used in the neonatal department or for postpartum care.

A little healthy light shining on
a difficult start in life.



Characteristics

Amelux phototherapy lamp

- 4 blue light compact fluorescent lamps (CFLs) for the treatment of hyperbilirubinaemia
- 2 white light CFLs giving a pleasant mixed light for observation
- Available with 6 blue light CFLs for more intensive treatment
- Best possible focus from well positioned reflectors
- Fully mobile for optimal positioning
- Hours of operation timer to check total working hours
- Resettable therapy-hours timer
- Mobile stand, fully height adjustable
- Operating life of the lamps at least 2'000 hours
- Silent, due to absence of ventilator fan
- Easy-to-use
- Low energy consumption

Technical data	Amelux
Component specifications	
Height adjustment	470 mm, mechanical
Radiant lamp unit	swivelling
4 blue light CFLs	yes
2 white light CFLs	yes
6 blue light CFLs (in place of white CFLs)	optional, instead of 2 white lights
Total working hours, therapy hours timer	on the LCD Display
General	
Ø Total irradiance level: E: $400 < \lambda < 550$ nm from a distance of 350 mm	43 W/m ² (6 blue light CFLs) 34.7 W/m ² (4 blue and 2 white light CFLs)
Mains voltage / mains frequency	230/240 VAC / 50 Hz
Rated current / power consumption	1.95 A / 200 W ca.
Dimensions / Weight	
Dimensions radiant lamp (L x W x H)	470 x 285 x 90 mm
Height adjustment	1150–1600 mm from the floor
Weight including stand	17.8 kg
Compliance	Complies with Medical Devices Guideline 93/42/EEC  0123

Amecosity – a little bit of extra help

Only the very best is good enough, including for our smallest mattress. For example, the HeatMembrane-System provides an almost loss-free transfer of warmth. The core of the system is an integrated heating foil, which constantly regulates the temperature level of the entire visco-elastic foam mattress. Ideal for examinations in hospitals and medical practices.

Temperature control is managed by a simply to be operated control unit – with alarm system, for maximum safety.

Characteristics – Amecosity warming mattress

- The mattress is made of visco-elastic foam for optimal form-fitting to the body
- Available in two sizes
- Skin friendly, anti-bacterial, highly flame-retardant mattress cover made of high quality Dartex
- Optimal temperature regulation with increments of 0.1 °C steps
- Minimal temperature fluctuations of ± 0.5 °C over the entire mattress
- Alarm system



Technical data	Amecosity NC1	Amecosity NC3
Application	Open Intensive Care (Amenic)	Warming Bed
General		
Setting range / accuracy	28–38 °C / ± 0.5 °C	
Mains voltage / mains frequency	230 VAC / 50/60 Hz	
Power consumption	130 W	
Power cord	3000 mm	
Control cord	1800 mm	
Alarms		
Over temperature / lower temperature	yes	
Cord break	yes	
Power failure	yes	
Dimensions / Weights		
Dimensions mattress (L x W x H)	765 x 600 x 40 mm	650 x 330 x 40 mm
Dimensions control unit (L x W x H)	235 x 250 x 65 mm	235 x 250 x 65 mm
Weight mattress	5.5 kg	2.8 kg
Weight control unit	4.2 kg	4.2 kg
Compliance	Complies with Medical Devices Guideline 93/42/EEC 	

Neonatology – we care

In the mountains, cooperation and trust are what you need to achieve maximum possible safety. Ardo helps you scale the heights – safely! You can rely on Team Ardo – you can trust our reliable neonatology products.



Ardo medical Ltd.
Unit 1
Belvedere Trading Estate
Taunton TA 1BH
United Kingdom

T +44 (0)1823 336 362
F +44 (0)1823 336 364
info@ardomedical.co.uk
www.ardomedical.co.uk

Ardo medical AG
Gewerbestrasse 19
6314 Unterägeri
Switzerland

T +41 (0)41 754 70 70
F +41 (0)41 754 70 71
info@ardo.ch
www.ardo.ch