

# Neonatology



Медицинское оборудование в Красноярске

 **МЕДПРОМ**  
ГРУППА КОМПАНИЙ

660135, г. Красноярск, ул. Молокова, 31-4

Тел. +7 (391) 286-15-52

krasmedprom@gmail.com, www.gkmedprom.ru

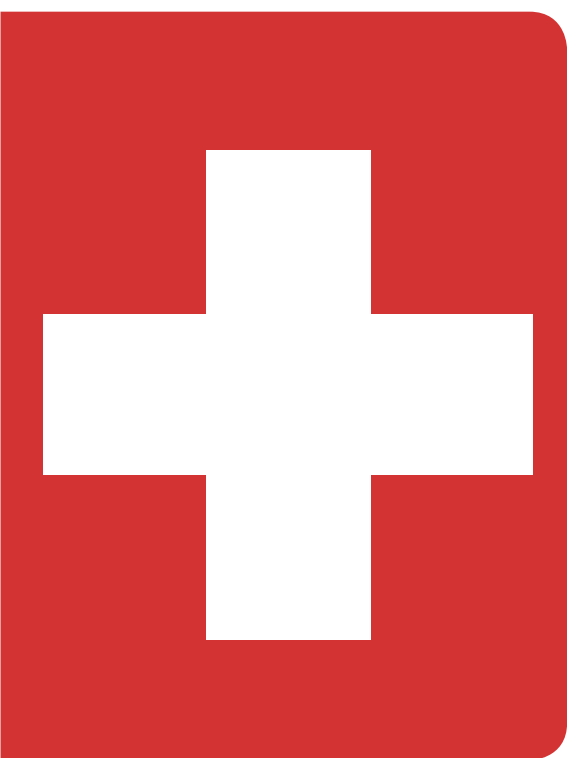


Climb to the peak of the highest Swiss m



# ountain ...

## ... 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.

Twenty years of experience in the Neonatology, Suction Technology, and Pressure Ulcer Management Sectors, together with our own line of Mother and Baby 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.

ARDO Amelie and  
Amelie star



Page 6

Incubators

ARDO Amenic



Page 12

Open intensive care systems

ARDO Amemnc



Page 18

Ceramic radiant heater

ARDO Amenic s



Page 20

ARDO Amelux



Page 24

ARDO Amecosy



Page 26

Quartz radiant heater

Phototherapy lamp

Warming mattress

# Amelie incubators – Security for the

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
- Incline of the lying area adjustable  $\pm 12^\circ$  possible using the wedge mattress (accessory)



the tiniest 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 an optimal, 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 intensive and care incubators stand for safe warmth and optimal 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. Our expertise in the Pressure Ulcer Management Sector has allowed us to pay special attention to the mattress, which has a premium quality, breathable Dartex cover.
- ⑦ 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



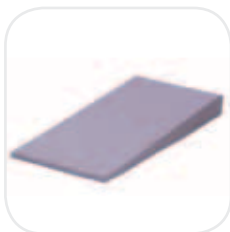
Turnable monitor tray

Compartment



Two drawers  
max. load 4 kg

Wedge mattress



For extra incline of the  
lying surface up to 12° possible

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 – opaque

Technical data	Amelie	Amelie star
<b>Operating parameters</b>		
<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
<b>General</b>		
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, RS232 interface, O <sub>2</sub> inlet and O <sub>2</sub> servo optional, 200 mm electrical	
<b>Alarms</b>		
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
<b>Hood</b>		
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	
<b>Dimensions / Weights</b>		
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	
<b>Compliance</b>	Complies with Medical Devices Guideline 93/42/EEC (CE 0123)	

# 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 controlled by skin temperature
- Manual temperature control by ceramic heating
- 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.

When combined with the Amecosy warming mattress the radiant heat can be reduced, thereby improving the hydration of the newborn. For a perfect climate of warmth.



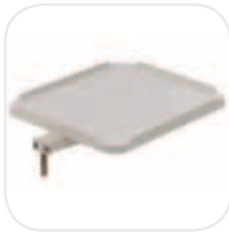
Skin temperature control heating or manual temperature control	
Amenic supreme	Amenic e-servo
Continuous electrical height adjustment	Without height adjustment
Quartz radiant heater	
Radiant heat in the mid-infrared range The heater can be swung sideways to allow easier access for X-rays Visual and audible alarms for reliable and safe monitoring Inclinal 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		
<p>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 <math>\pm 10^\circ</math>  May be combined with the Amecosy warming mattress  Integrated X-ray compartment  All protective sides fold down</p>		
15		

# Accessories Amenic – individual choice

Monitor tray



Swivel tray

Compartment



Two drawers  
max. load 4 kg

Infusion rod



Enough room for several IVs

Amecosity heating mattress



For an optimal thermal environment

Oxygen system



For secure initial care

Combined O<sub>2</sub> 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
Heating element swivelling range	± 60°	± 60°	± 60°	± 60°
Observation lamp halogen, swivelling	12 V 50 W	12 V 50 W	12 V 50 W	12 V 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	220/240 V ± 10 % / 115/120 V ± 10 %		220/240 V ± 10 %	
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		–	
Over temperature	39–39.5 °C		> 50 % and > 15 min	
Skin sensor: defective, interrupted 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 (CE 0123)			

# 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 halogen observation lamp
- Optical and acoustic alarm system
- Flexible applications with mobile stand, ceiling- or wall-mounted



Technical data	Amemnc
Component specifications	
Heating element Observation lamp halogen, swivelling Mobile stand Wall mounting Ceiling mounting	Ceramic 12 V 50 W optional optional optional, according to customer specifications
General	
Heating power Irradiance IR 350–1400nm Irradiance IR-A 780–1400nm Set value heating Display range LED Mains voltage / mains frequency Power consumption	2 x 325 W max. 8.4 mW/cm <sup>2</sup> ± 1.8 (at heating power 50 %); 25.6 mW/cm <sup>2</sup> ± 2.6 (at heating power 100 %) 0.15 mW/cm <sup>2</sup> ± 0.02 (at heating power 50 %); 0.18 mW/cm <sup>2</sup> ± 0.02 (at heating power 100 %) 50–100% in 6 levels 50–100 % 230/240 VAC ± 10 % / 50/60 Hz 3.25 A max.
Alarms	
Over temperature Power failure	> 50 % and > 15 min yes
Dimensions / Weight	
Dimensions radiant heater housing (L x W x H) Variable height underside of radiant heater housing Min. clearance (lying surface to radiant heater) Dimensions mobile stand base (L x W x H) Weight radiant lamp Weight with wall mounting / with mobile stand Weight with ceiling mounting	710 x 250 x 80 mm 1520 / 1570 / 1620 / 1670 mm (with mobile stand) 660 mm 700 x 600 x 100 mm 7.8 kg 10 kg / 27 kg depending on the length of the ceiling mounting
Compliance	Complies with Medical Devices Guideline 93/42/EEC (CE 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 Heating regulation Heating element swivelling range Observation lamp halogen, swivelling Height adjustment	Quartz skin sensor / manual $\pm 60^\circ$ 12 V 50 W 220 mm, mechanical
General	
Heating power Set value range skin temperature Setting range manual heating power regulation Display range LCD Mains voltage Mains frequency Power consumption	500 W 34–37.9 °C 0–100 % 0–99.9 °C 230/240 VAC $\pm 10\%$ / 115/120 VAC $\pm 10\%$ 50/60 Hz 1150 VA
Alarms	
Power failure Skin sensor set temperature variation Over temperature Skin sensor: defect, interrupted or not connected	yes $\pm 0.8\text{ }^\circ\text{C}$ 39–39.5°C yes
Dimensions / Weight	
Radiant heater (L x W) Height min. / max. Floor clearance Weight	1050 x 750 mm 1680 mm / 1900 mm 100 mm approx. 65 kg
Compliance	Complies with Medical Devices Guideline 93/42/EEC ( <b>CE</b> 0123)





# 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 optimally 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 Radiant lamp unit 4 blue light CFLs 2 white light CFLs 6 blue light CFLs (in place of white CFLs) Total working hours, therapy hours timer	450 mm, mechanical swivelling yes yes optional, instead of white light on the LCD Display
General	
Ø Total irradiance level: E: 400 < $\lambda$ > 550 nm from a distance of 350 mm Mains voltage / mains frequency Rated current / power consumption	43 W/m <sup>2</sup> (6 blue light CFLs) 34.7 W/m <sup>2</sup> (4 blue and 2 white light CFLs) 230 VAC / 50 Hz 1.95 A / 108 W
Dimensions / Weight	
Dimensions radiant lamp (L x W x H) Height adjustment Weight including stand	470 x 285 x 90 mm 1150–1600 mm from the floor 17.8 kg
Compliance	Complies with Medical Devices Guideline 93/42/EEC (CE 0123)

# Amecosy – a little bit of extra help

We are manufacturers of Pressure Ulcer Management systems. As experts in the field, 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 simple control unit – with alarm system, for maximum safety.

## Characteristics – Amecosy 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
- Optimal temperature regulation with increments of 0.1 °C steps
- Minimal temperature fluctuations of  $\pm 0.5$  °C over the entire mattress
- Alarm system



Technical data	Amecosy NC1	Amecosy NC3
Application	Open Intensive Care (Amenic)	Warming Bed
General		
Setting range / accuracy	28–38 °C (82.4–100.4 °F) / ± 0.5 °C (± 0.9 °F)	
Mains voltage / mains frequency	230 or 115 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 (CE 0123)	

Медицинское оборудование в Красноярске



660135, г. Красноярск, ул. Молокова, 31-4

Тел. +7 (391) 286-15-52

krasmedprom@gmail.com, www.gkmedprom.ru



Ardo medical Ltd.  
Unit 11  
Belvedere Trading Estate  
Taunton TA1 1BH  
United Kingdom

T +44(0)1823 6361362  
F +44(0)1823 6361364  
info@ardomedical.co.uk  
www.ardomedical.co.uk

Ardo medical AG  
Gewerbestrasse 19  
63144 Uttetal  
Switzerland

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