

# ARDO Amelie and Amelie star

The New Generation of Intensive Care Incubators

New

- Reliable
- Innovative
- Safety
- User-Friendly

NEONATAL CARE

 ARDO

# Reliability - Made in Switzerland

## ARDO Amelie and Amelie star

- Integrated skin and air temperature control
- Active humidity control
- Integrated oxygen control via display (Amelie star)
- Microprocessor controlled
- LCD Display with backlight and clearly arranged "EASYtask" menu navigation
- Maximum safety through "SENSOcontrol" monitoring- and regulation system
- Recording-diagram, trend for all modes
- Infinitely variable, electrical height adjustment with handling on front- and back-side (optional)
- High-quality mattress, breathable Dartex
- Lying surface inclination, adjustable from the front side of the incubator
- Integrated scale (accessory)
- Integrated X-ray compartment
- Optimal handling: frontdoor as well as backdoor can be opened completely
- Gaskets and tube grommets made out of high-tech silicone
- 5 arm access openings, one reach-through with iris diaphragm and 10 tube grommets
- Upgradeable with up to 2 convenient drawers (accessory)
- Easy to clean due to smooth and easy accessible surfaces and simple disassembling
- Due to the special developed ARDO "Airstream" technology optimal, draft-free circulation and equal spreading of temperature. When doors are opened only slight variations in temperature occur due to the "air curtain"

## Innovative



The special developed "ARDStream" technology guarantees: Ideal, draft-free circulation and equal spreading of temperature

## Safety



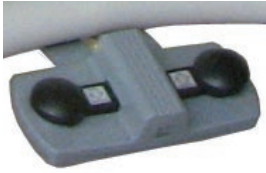
Safety: the intelligent ARDO sensor box builds the core piece of the monitoring- and regulation system

## User-friendly



Everything under control: Well readable LCD display, clearly arranged and logical menu configuration, keylock option





Ideal adjustability: electrical height adjustment with handling from the front side and the back side (optional)



Quality up to the last detail: All tube grommets and gaskets made out of long-lasting, UV-resistant and sterile silicone



The fine difference: optimal isolation and reducing of steaming up due to triple wall technology

Optimal comfort due to individual choice of mode:



Trend-indication: Trends for all modes can be shown in a diagram

Air temperature mode: Easy air temperature regulation inside the incubator

Skin temperature mode: Regulation and monitoring of the patient's skin temperature. Two skin sensors (regulation and additional control)

Air humidity mode: Regulation of air humidity inside the incubator in air- and skin temperature mode (from 0-90%). Easy accessible water reservoir on the front side of the incubator. Indication on display if water level is low

**Set value and actual value shown by all three modes. Deviation will be monitored**

Oxygen mode: Amelie star: complete regulation and monitoring of oxygen concentration via display. Amelie: only monitoring possible via display (unregulated)

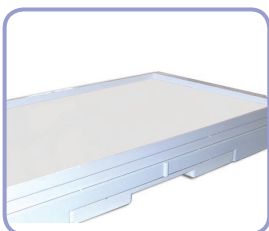
Weight mode (optional): Weighting of the patient inside the incubator with optional scale. Integrated controlling via display



## Babies need warmth, comfort and care

The tried and tested ARDO neonatal care-systems contribute positively

### Amelie accessories:



Scale



Monitor tray



Infusion rod



Compartment (left and right) with two drawers

Additional accessories: printer, pressure reducing accessorie, O2 tube, O2 flowmeter (for Amelie)

Technical data	ARDO Amelie incubator	ARDO Amelie star incubator
<b>Accessories</b>		
Electrical height adjustment	optional	optional
Compartment with two drawers left and/or right	optional (load max. 4kg per drawer)	optional (load max. 4kg per drawer)
Scale	optional	optional
Monitor tray	optional (load 8kg max.)	optional (load 8kg max.)
Infusion road	optional (load 2kg max.)	optional (load 2kg max.)
X-ray compartment / fitting rail	yes	yes
Oxygen control	Through additional Flowmeter & Analyzer	integrated
Printer to RS232 interface	optional	optional
<b>Modes</b>		
<u>Temperature:</u>		
Air temperature: Setting range / special setting range	25.0 - 37.0°C / 37.0 - 39.0°C	25.0 - 37.0°C / 37.0 - 39.0°C
Skin temperature: Setting range / special setting range	34.0 - 37.0°C / 37.0 - 38.0°C	34.0 - 37.0°C / 37.0 - 38.0°C
Pre-warming time / Temp. variability / Skin sensor accuracy	<55 min / ≤0.5°C / ≤0.3°C	<55 min / ≤0.5°C / ≤0.3°C
Display resolution	0.1°C	0.1°C
Trend display / Measuring rate for trend	2, 4, 8, 12, 24 h / 1 min	2, 4, 8, 12, 24 h / 1 min
<u>Air humidity:</u>		
Water reservoir capacity / Operating time with 1l of water	1000ml / ≥12h at <60% RH	1000ml / ≥12h at <60% RH
Setting range	00 – 90%RH in steps of 1%	00 – 90%RH in steps of 1%
Display accuracy	±6% RH (10 - 90% at 20 - 40°C)	±6% RH (10 - 90% at 20 - 40°C)
Display range / Display resolution	0 - 99% RH / 1%	0 - 99% RH / 1%
Trend display / Measuring rate for trend	2, 4, 8, 12, 24h / 1 min	2, 4, 8, 12, 24h / 1 min
<u>Oxygen servo control (Optional):</u>		
Setting range / Display accuracy	-	20 – 60% in 1% steps / ±3%
Display range / Display resolution	-	0 - 99% / 1%
Trend display / Measuring rate for trend	-	2, 4, 8, 12, 24h / 1 min
<u>Scale (optional):</u>		
Weight range / Display accuracy / Display resolution	100 - 8000g / ±10g / 1g	100 - 8000g / ±10g / 1g
Trend display / Measuring rate for trend	7days / 2 – 7weeks / 1h	7days / 2 – 7weeks / 1h
<b>Alarms</b>		
Alarms for control deviations: Skin control / Air control	±1°C / ±3°C	
" " " " : Over temp. Skin control / Over temp. Air control	40.0°C / 38°C at ≤37°C and 40°C at >37°C	
" " " " : Humidity control / Oxygen control	±15% / ±5%	
Alarms of the system	Power failure, connection error, controller error, sensor error, motor error, heating error, sensor box error, sensor box out of position, battery error, keyboard error	
Alarm messages of Sensors	Temperature Deviation skin/air, over temp. skin/ air, error air- skin sensor 1, wrong placing of skin sensor 1 / control sensor, deviation air sensor, humidity, - O2 (Amelie star) error humidity sensor, humidity-heating, - O2 sensor, weight to high, connection scale, O2 sensors not the same (Amelie star)	
<b>Hood</b>		
Number of doors	2x	
Number of arm access openings / tube grommets / Iris diaphragm	5x / 10x / 1x	
Noise level (interior)	<45dBA	
Air velocity over lying surface / Carbon Dioxide concentration (CO2)	≤0.12m/s / ≤0.15%	
<b>Installation</b>		
Mains voltage / Mains frequency / Power consumption	230VAC ± 10% / 50/60Hz / 1840VA	
Operating temp. / operating humidity / Atmospheric pressure	20°C – 30°C / 30% – 75% RH / 700 - 1060hPa	
Storage temp. / storage humidity / Atmospheric pressure	(until 15 weeks) -20 – +55°C / ≤93% RH / 500 - 1060hPa	
Connections at the incubator	Pow. supply, 3 additional sockets, RS232 interface, O2 connection, potential equalisation	
<b>Dimensions / Weights</b>		
Width / Depth	106cm / 68cm	
Height fix / Height with electrical height adjustment	145cm / 140 - 165cm	
Clearance between lying surface and hood	42cm	
Opening front- und back door [WxH]	85x34cm	
Height lying surface fix / Height l. surf. with electr. height adjustm.	103cm / 98 - 123cm	
Lying surface (BxT) / inclination lying surface	76x38cm / ±8°	
Weight / with electrical height adjustment	90kg / 100kg	
<b>Conformity</b>	<b>CE 0123</b>	
<b>Standards</b>	Complies with Medical Devices Guideline and the conformable Standards	