



Medical Equipment Catalogue

Version 1/2006



ALFAMEDIC s.r.o.
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ABOUT FIRM

The firm ALFAMEDIC was set up in August 1991. The target has been to become one of the companies dealing in developing, production and sales of the high quality medical devices and instruments. Alfamedic was established as a completely new and independent entity without previous connection with other organisations.



From the very beginning the main activities of the company have been oriented to the following medical fields:

- paediatrics
- neonatology
- gynaecology
- surgery
- aesthetic surgery (cosmetology)
- orthopaedy
- rehabilitation

The products of Alfamedic gradually form the purposive and conceptual series which in most cases enable to fulfil the clients' requirements. The gradual enlargement of the range of goods increases the opportunity of employment in the other branches of medical care. The manufacturing programme of Alfamedic includes at present 21 devices of our own design some of which have several type modifications. The main product is „Neonatalogical heating bed - LN-91 type“ (open incubator) . According to the clients' wishes it is produced in 5 models with different accessories. In 1996 we won the international tender for the deliveries of other 65 pieces of heating beds LN-91. The organiser of the tender was Swiss Red Cross within the international help to the Czech medical care.

In 1997 we were selected by the Ministry of Health as one of the series of suppliers of medical equipment within the international help for the Republic of Belarus.

At present we are developing successfully the export business activities in the following countries: Algeria, Croatia, Lithuania, Laos, Poland, Austria, Russia, Slovakia, Tunis, Turkey, Ukraine, ...

The main target of the firm is by means of its manufacturing programme in the fields of medical care to provide the customers with the high quality range of goods at relevant prices which will be able to fulfil the demanding requirements and compete successfully in the foreign markets as well.





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OPEN RADIANT INFANT WARMER SYSTEM LN-91



Modifications:

LN-91 S

- Heating module equipped with 1 heating body and areal illumination with 4 bulbs á 60 W.

LN-91 G

- Heating module equipped with 2 heating bodies, hallogen areal illumination and space for a photography

LN-91 ECMO

- Opportunity of choosing the right heating module type and the treatment bed measures are the same as in S and G modifications.
- Mobile height adjusting of treatment bed and heating module in the range of 40 cm.
- Other parts of the basic arrangement and the choices equipment are in all modifications the same.



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TECHNICAL PARAMETERS:

Device:	class I, type B
Areal lighting:	4x60W/230V, 1x50W/12V
Power supply:	230V 50 Hz
Spotlight:	20-35W / 12V
Max. power input:	1000 W
Dimension H x W x L:	1900 x 700 x 1050 mm
Heating power output:	600 W
Weight:	cca 95 kg
Shielding degree:	EN 55 011
Protection:	fuses 2 x T 10 A

Applications:

- Standard care for new-born children including basic care in the labour room.
- Body temperature stabilizing of hypothermical new-borns.
- Hyperbilirubinemia phototherapy treatment of new-borns.
- Giving infusions and carrying out exanquinations.
- Nursing pathological new-borns with controlled ventilation at the Intensive Care Units.
- Pre and Post surgery intensive care at infant and neonatological centers.
- Executing surgery interventions at the Intensive Care Units and infant chirurgical centers.

The basic arrangement of all modifications contains:

- Electronic proportional servoregulator, 2 temperature probes.
- Mobile central stand with electric distributions.
- Treatment bed with detachable plastic side-shields and adjusting to an uphold and drainage (Trendelenburgh) position. Washable mattress without heating.
- Upper module with a heating body and built-in illuminatin and/or phototherapy according to the modification G or S. The module is 90° revolvable.
- Three hight-adjustable shelves placed above the treatment bed and one fixed shelf under the bed.
- Infusion glass or bag holder and a 2-liter oxygen bomb holder.
- The basic arrangement is fully functioning and is ready for adding to the equipment.



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Equipment choices:

- Phototherapy with blue or white light installed in the space of the heating module type G.
- Mattress with heating.
- Central oxygen distribution with 2 outputs on the shelf under the treatment bed.
- Time module - medical watch with the Apgar signalization.
- Moulding fastening system - 2 mouldings.
- Oxygen suction pump: a) without underpressure system b) with underpressure system.
- Heated nebulizer.
- Point hallogen reflector.
- Oxygen flowmeter.
- Oxygen microtent 500 mm (Polycarbonate).installation.
- Treatment bed with measures: 50x80 cm or 65x80 cm

Heated bed, LN-91 P type with manual regulation of heating for examination in maternity wards.



Heating module, **VM 94** type with manual regulation of heater power and plane lighting.

Heated bedding for patients, **RD-95** type, dimensions: 35 x 55cm, 55 x 80cm, 65 x 80cm, 50 x 120cm.





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HEATING MODULE VM 94

The heating module with manually adjustable electronic regulation and indication of the heating output, including the integral illumination, is designed for local heating of the working place in health facilities where it is necessary to ensure a stable temperature, such as:

- a) new-born baby treatment
- b) in private paediatricians' ambulances
- c) in observation boxes, accouchement rooms of maternity hospitals and examination tables,
- d) intensive and resuscitation care departments, etc.

The apparatus consists of a metal jacket which is treated on its surface by means of baked powder varnish. The module contains a heating ceramic source controlled by the electronic regulator with the indication of operation and heating output, which can be pre-set manually with the help of a washable membrane keyboard.

The integral illumination source ensures sufficient illumination of the working area for ordinary treatment of patients.

The apparatus is produced in the following modifications:

- a) independent heating module VM-94 - mobile stand without patient's bed
- b) independent heating module VM-94 - fixed to a wall without patient's bed
- c) mobile stand LN-91 P with an adjustable patient's bed and tilting side plates, storage shelves, bar system to be used for the suspension of accessories, drawer container.



Technical characteristics:

Apparatus: mobile stand VM-94	Class no. I, type B
Interference suppression degree:	EN 55 011
Supply voltage:	230V 50 Hz
Maximum power output of the heating element:	250 W
Maximum power input of the apparatus:	300 W
Light source:	220V 2 x 40W
Fuses:	2 x T 3.15 A / 250V
Weight:	approximately 30 kg
Dimensions H x W x L:	1750 x 400 x 1000 mm



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HEATED PATIENT MATTRESS RD -95



Heated mattress is an optional local heat source for treatment of hypothermic states of patients. The unified design of the device enables its application almost in all fields of health service, intensive and reanimation care units, surgical departments, operating rooms, resuscitation departments, gynaecology, internal medicine departments, birth, children's and neonatal departments.

The main functional parts are electronic temperature regulator and patient's mattress. The regulator maintains the temperature according to required parameters and provides a constant diagnosis of the circuits. The heated mattress with a built-in heating system, a set of temperature sensors and a thermal mechanical fuse is connected to the regulator through plastic connector with a safety nut. Low supply voltage of the mattress of 9V / 18V depending on the size provides the high operating safety. The required operating temperature is set-up with the keys on control panel. The set-up data are represented by the red LED display. Excess of the set-up temperature and a possible regulation failures are signalled by optical and acoustic alarms. This always results in automatic disconnection of heating. Therefore the uncontrolled increase of temperature and the patient injury is prevented.

Green indicating light of heating currently signalises the instantaneous operating state of the device.

TECHNICAL PARAMETERS:

Device class:	II
Input power:	max 45 W
Temperature range:	23 - 38°C
Regulator weight:	4,5 kg
Sizes of heated mattresses:	350 x 550 mm 500 x 800 mm 650 x 800mm 500 x 1200 mm
Supply voltage:	230V / 9V / 18V / 50Hz



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ACTION PADS

Tissue trauma and skin breakdown in the O.R. is a serious problem facing surgical professionals and their patients each day. Prevention of pressure ulcers will help avoid needless pain, suffering, expense and in the worst cases, death. Understanding and identifying the major causes of pressure sores will help professionals provide the best preventive care possible.



Capillary closure is at the root of ulcer formation. The blockage or damage of capillaries prevents the natural maintenance of healthy skin. Without delivery of oxygen and nutrients and removal of waste, cells die and tissue decays - ulcers form. Providing unrestricted blood flow is imperative in the prevention of ulcers.

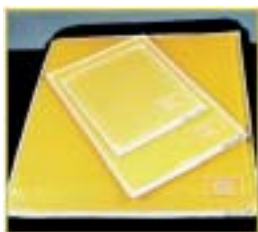


Pressure and shear are the main causes of capillary closure. When pressure or shear is excessive and/or prolonged, the risk of breakdown is highest. Bony prominences are most susceptible to damage, although any area experiencing these conditions is vulnerable. Taking steps to decrease the negative effects of pressure and shear is critical to preventing ulcers.

Heat and humidity are two factors which act as catalysts in the process of skin breakdown. The ability to control these factors and to alleviate the development of „hot spots“ at high pressure sites will also help minimize patient risk.

AKTON® Products Also Have These Added Benefits:

- **Cost Effective**
- **Fast & Easy Cleaning**
- **Radiolucent**
- **Latex Free**
- **Plasticizer Free**
- **Silicone Free**
- **Reusable**
- **Over 100 Products**
- **Tissue Equivalent**





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Implementing quality protocol which incorporates the use of proper positioning devices is the solution. Preventive care means using Action® pads and positioners which have been part of the solution, worldwide, for over 30 years.

Action® products work to avoid excessive pressure build-up and capillary closure. Action® products evenly distribute weight and provide constant support beneath patients by not bottoming out! Akton® polymer reduces shear by moving with the skin, not against it. The tissue friendly feel makes it very comfortable. Heat and humidity are controlled by the material's ability to evenly radiate heat throughout the product. This reduces risk of potentially dangerous „hot spot“ development while providing uniform temperature environment for the patient. This ability also makes products ideal for use with heating or cooling blankets.





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INFANT INCUBATOR INKA SI-303

The incubator provides the climatic condition (temperature, humidity, oxygen) suitable for a new-born baby life. A ventilator sucks air, which can be enriched with oxygen. The air is forced through a heating spiral and a sterile water tank into the incubator while it is warmed and moistened. According to the modification the incubator provides measuring of air, pulse and weight of the baby.



When oxygen is applied, its concentration is automatically controlled according to the operator's requirements and displayed on the front panel. A built-in bacteriological filter provides purity of the drawn air.

The constant inside temperature is controlled by an electronic regulator either according to the air temperature, or the body temperature. An operator may select the mode by means of buttons on a front control panel. The temperature is measured by a built-in thermometer and is displayed on the front control panel. There is an alcohol thermometer placed inside the patient space for informative temperature reading.

The important parameters of the incubator are guarded by an alarm circuit system. Deviations of these parameters from the preset limits are signalled by acoustic and optical signals. In case of larger defect the incubator is equipped with a circuit disconnecting the heating.

The operation of the alarm circuits at a power drop out is secured by a backup source. This source is automatically charged at the normal operation of the unit. At a power failure this backup source feeds the alarm system for at least 10 minutes. The recharge time depends on the time of operation. (After ten minutes of alarm operation the battery is recharged in max. 10 hours. If the incubator is out of operation for a longer period it must be switched on for 10 hours at least once in 3 months to recharge the batteries to the full capacity).



TECHNICAL SPECIFICATIONS

Power voltage	230V \pm 10%, 50/60 Hz
Power input	max 400 VA
Inside temperature range	30.0°C - 37,0°C step 0.1°C 37.1°C - 37.9°C step 0.1°C on operator's intervention
Temperature setting accuracy	\pm 0.1°C

Two temperature modes enable temp. control according to the air temperature or according to body temperature.

Air temperature mode	30.0°C - 37,0°C step 0.1°C 37.1°C - 37.9°C step 0.1°C
Lower and upper automatic alarm limit adjustment	\pm 1°C from the required temperature
Body temperature mode	34.0°C - 37,0°C step 0.1°C 37.0°C - 37.9°C step 0.1°C
Lower and upper automatic alarm limit adjustment	\pm 1°C from the required temperature
Warming-up period (acc.to IEC 601)	30 min.
Temperature stabilization time	120 min. (according to the set temp.)

ALARM signals	<ul style="list-style-type: none">- power failure- drop or rise of body/air temp. out of the preset limits- fan defect- body/air temperature, oxygen, and RH sensor failure- temperature rise to the emergency level- drop or rise of FiO₂ concentr. beyond preset limits- drop or rise of RH beyond preset limits- drop or rise of air or pulse beyond preset limits- system failure- control box not properly located
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An alcohol thermometer 20 - 40°C inside the patient space for informative temperature reading.

Setting temp. above 37.0°C	only on operator's intervention
Alarm test	with a button
Acoustic alarm breaker	button, (for approx. 30 sec. or 5 min.)
Water tank	1 litre of sterile water



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Noise		max. 54 dB
Dimensions:	height	adjustable 1340 - 1560 mm
	length	1050 mm
	width	560 mm
Weight		108 kg
Bacteriological filter		In the air or oxygen input max penetration $1 \times 10^{-4} \%$
Max carbondioxide concentration		0.5%

Measurement and control of FiO_2

Attainable concentration	min. 0.8 FiO_2
Accuracy of measuring	$\pm 0.03\% \text{ FiO}_2$
Concentration adjustment	0.211-0.90 with step 0.001 FiO_2
Range of measured level	0.10 - 0.999 FiO_2
Period of data stabilization in compliance with ISO 7767	5 min.
Error of oxygen concentration measuring linearity	2 %
Temperature range of oxygen measurement	$-5^\circ\text{C} - 50^\circ\text{C}$
Service life of the oxygen measuring probe	min. 1 year
Accuracy of FiO_2 measurement	$\pm 0.5\%$ of the measurement range

Relative humidity (RH) concentration measurement

Accuracy of RH regulation	$\pm 1\%$ of the range
Accuracy of RH measurement	$\pm 5\%$ of the adjusted level
Adjustment of RH concentration	40.1 - 90 %, step 0.1%
RH measurement range	20 - 99.9%
Period of data stabilization	5 min.
Temperature range of measurement	$25^\circ\text{C} - 45^\circ\text{C}$

Weight measurement

Accuracy of weight measurement	$\pm 2 \text{ g}$
Weight measurement range	0 - 5 Kg, step 1 g
Period of data stabilization	approx 5 sec.

Pulse measurement

Pulse measurement range	21 - 200 /min.
Period of data stabilization	approx 5 sec.
Lower adjustable alarm limit	20 - 196 /min.
Upper adjustable alarm limit	24 - 200 /min.

Breath measurement

Breath measurement range	10 - 199 /min.
Period of breath stabilization	60 sec.
Period of breath response	approx. 10 sec.
Lower adjustable alarm limit	9 - 195 /min.
Upper adjustable alarm limit	13 - 199 /min.



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INFANT INCUBATOR INKA SI-302



The incubator provides the climatic conditions (temperature, humidity, oxygen) suitable for a new-born baby life. A ventilator sucks air, which can be enriched with oxygen, through a built-in flowmeter. The air is forced through a heating spiral and a sterile water tank into the incubator while it is warmed and moistened. The sucked oxygen and air purity is ensured by a built-in bacteriological filter. The built-in measurement enables to measure the relative humidity concentration. The constant inside temperature is controlled by an electronic regulator either according to the air temperature, or the body temperature. The mode may be selected by a switch on a front control panel. The temperature is measured by a built-in thermometer and is displayed on the front control panel.

The important parameters of the incubator are guarded by an alarm circuit. Deviations of these parameters from the set limits are signalled by acoustic and optical signals. In case of larger defect the incubator is equipped with a circuit disconnecting the heating.



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TECHNICAL SPECIFICATIONS

Power voltage	230V ± 10%, 50/60 Hz
Power input	max 350 VA
Inside temperature range	30.0°C – 37,0°C step 0.1°C 37.1°C – 37.9°C step 0.1°C on operator's intervention
Temperature setting accuracy	±0.1°C

Two temperature modes enable temp. control according to the air temperature or according to body temperature.

Air temperature mode	30.0°C – 37,0°C step 0.1°C 37.1°C – 37.9°C step 0.1°C
Lower adjustable alarm limit	29.0°C – 37,0°C step 1°C
Upper adjustable alarm limit	31.0°C – 39.0°C step 1°C
Body temperature mode	34.0°C – 37,0°C step 0.1°C 37.1°C – 37.9°C step 0.1°C
Lower adjustable alarm limit	33.0°C – 37,0°C step 1°C
Upper adjustable alarm limit	35.0°C – 39.0°C step 1°C
Warming-up period (acc.to IEC 601)	30 min.
Temperature stabilization time	120 min. (according to the set temp.)

ALARM signals	<ul style="list-style-type: none">- power failure- drop of body temp. under the preset limit- body temperature rise over the preset limit- drop of air temp. under the preset limit- air temperature rise over the preset limit- fan defect- body temperature sensor failure- heater disconnection
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An alcohol thermometer 20 - 40°C inside the patient space for informative temperature reading.

Setting temp. above 37.0°C	only on operator's intervention
Alarm test	with a button
Acoustic alarm breaker	button, (for approx. 5 minutes)
Adjustable relative air humidity	50% - 70%



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TRANSPORT INFANT INCUBATOR TI - 401



The incubator provides the climatic condition (temperature, oxygen) suitable for the new-born baby life. The oxygen may be dosed from two 2.5 litre oxygen bottles placed in the lower part of the incubator. The unit is equipped with a reducing valve which may be removed to the second bottle when the first one is empty. The oxygen goes through a built-in flow meter, placed in the middle part, into the space of fan sucking. The air then circulates through the heating element and the patient space.

The permanent temperature is controlled by an electronic regulator according to the operator's requirements. This regulator controls the inside temperature according to the air temperature. The inside temperature is measured by a built-in thermometer and is displayed on the front control panel. There is an alcohol thermometer placed inside the patient space for informative temperature reading.

The important parameters of the incubator are guarded by an alarm circuit. Deviations of these parameters from the set limits is signalled by acoustic and optical signals. In case of larger defect the incubator is equipped with a circuit disconnecting the heating.

The operation of the alarm circuits at a power drop out is secured by a stand-by source. This source is automatically charged at the normal operation of the unit.



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TECHNICAL PARAMETERS

Power voltage	mains: 230V ± 10%, 50/60 Hz external source: DC 12V 16A	
Power input	mains: max 380 VA external source: 195 VA	
Operating time with fully charged accumulators	min. 4 hrs depending on the set inside and outside temperature	
Accu charging time	approx. 15 hours	
Inside temperature range	28.0°C - 38,0°C stepless	
Temperature setting accuracy	±0.1°C	
Temperature maintaining accuracy (With out. temperature 20-30°C)	±0.3°C	
Lower and upper alarm limits	±1.0°C from the set temperature	
Warming-up period (acc.to IEC 601)	20 min.	
Temperature stabilization time	max 120 min (according to the set temp.)	
ALARM signals	<ul style="list-style-type: none">- power failure- drop of the air temp. under a set limit- air temperature rise over a set limit- fan defect- sensor failure- overheating- heater disconnection- power drop	
Alarm test	with a button	
Acoustic alarm breaker	button, (for approx. 5 minutes)	
Noisiness	complies with IEC 601 conditions max. 60 dB	
Dimensions:	height	1435 mm
	length	1050 mm
	width	560 mm
Weight	96 kg	
Humidity	The incubator is not equipped with a humidifier	
Max carbondioxide concentration	0.5%	



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NEONATAL AND INFANT BED MINI



Neonatal bed MINI is designed for neonatal and children's departments of all health facilities. It is in particular suitable for ROOMING – IN system as its design enables to put it directly above the mother's bed or under a heating module VM-94 or photo-therapy FL-400.

It is mobile and can be easily adjusted manually in vertical direction. Four side swivel wheels, two with brakes. On the lower part of chassis there is a storage basket.

Through an easy positioning mechanism you can adjust the bed surface to both of „Trendelenburg's“ positions, a high-level or so-called „drainage position“. Lining of the mattress can be chosen between the cloth, leathercloth or purplast MINT. The bed can be used with a heated mattress with the temperature regulation type RD – 95.

TECHNICAL PARAMETERS:

Dimension:	850 x 500 x (600-850) mm
Positioning adjustment:	±20°
Vertical adjustment:	in range 250mm
Weight:	cca 12 kg
Colour make:	by agreement



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PAEDIATRIC BED PL-N



Paediatric bed PL - N can be used at paediatric rooms of any hospital ward. Inner space of the bed is 1600 x 650 mm. The bed is easy to move due to four revolving wheels equipped with breaks.

The upper 4 segment part of the bed can be inclined to the both of Trendelenburgs positions. Electric powered inclining is equipped with a remote cable control. Both side and front walls of the bed can be hinged down easily. Front and rear walls can be made either of laminated fabric (light oak surface) or of metal rods (like the side walls). There are several grips round the mattress that enable fixation of the patient. The bed can be equipped either with a non-heated mattress coated with leatherette or with a heating mattress equipped with automatic temperature regulation type RD-95.

TECHNICAL PARAMETERS:

Positioning:	2 el. motors
Dimensions:	1700 x 650 x 700 mm other dimensions by agreement
Sides:	tilting 2 longitudinal 1 at patient's head
Bed area:	4 segments, 3 manually positioned
Colour make:	by agreement
Weight:	according to version 65 kg



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PEDIATRIC BEDS DPL55, DPL70



Adjustable bed for kids is made from steel profiles and tubes with powder coating. Bed contains four wheels (two brakeable), height adjustable patient area and adjustable back part by a raster or gas-spring.

Patient area dimensions:

DPL 55: 550 x 1100 mm, weight 45 kg.

DPL 70: 700 x 1400 mm, weight 55 kg.

TECHNICAL PARAMETERS:

- steel construction painted with a powder coatings
- choice of color possible
- shifting side-rails
- two wheels - optional four wheels
- back part adjusted by a raster or gas-spring
- patient area made of easy to clean steel lamellae
- load capacity 50 kg





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PHOTOTHERAPY FL-400

Phototherapy lamp FL - 400 is used for treating hyperbilirubinemia of the newborn children. The lamp is installed on a mobile stand with the possibility of height adjusting with simple rotation. The illumination body is side adjustable. These adjusting possibilities make possible the treating of patients in classic beds and incubators. The light source is the electric discharge RVIM 400. The discharge is during operation constantly cooled by the ventilator, which extends its life. There is a switch and an operation hours counter placed on the control case.

FUNCTION:

- height and side adjusting of the illuminating body
- switching the electric discharge lamp
- measuring the operation hours of the discharge

CARE:

The device FL - 400 does not require any special care. It is possible to clean with common detergent.

TECHNICAL PARAMETERS:

Measures:	950 x 650 x 1850 mm
Weight:	cca 40 kg
Min./max. light source adjusting:	1100 - 1800 mm
Light source:	discharge RVIM 400 - blue
Voltage:	230V / 50Hz
Max. power consumption:	500 VA
Fuses:	2 x T10 A
Classification:	Class I.





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PHOTOTHERAPY FL-222



Compact phototherapy FLM - 222 is used for treating of the new-born children hyperbilirubinemy. This unit can be placed at any standard infant incubator. Two sources of cool blue or green light ensure that the bilirubin level drops without any temperature changes inside of the incubator.

TECHNICAL PARAMETERS:

Power voltage:	220V / 230V, 50 Hz
Power input max:	55 W
Light source:	vacuum lamp (blue) 2 x 20 W
Light power:	approx 10 - 12 $\mu\text{W}/\text{cm}^2$ /Nm
Life of light source:	2000 - 2500 operational hours
Fuse:	PO1, PO2, T 615 mA / 220 V
Dimensions:	height: 100 mm width: 180 mm length: 800 mm
Weight:	4 kg



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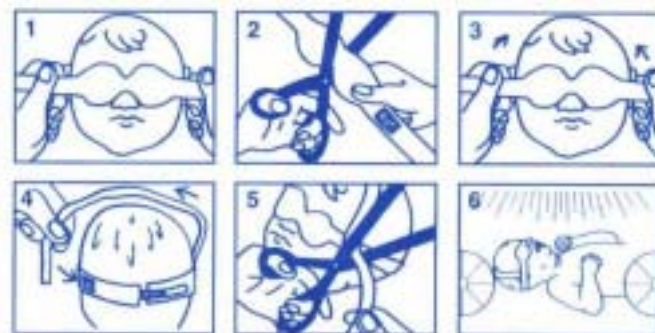
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MDM PHOTOTHERAPY EYE PROTECTOR



MDM INFANT PHOTOTHERAPY EYE PROTECTOR

- eye protection by phototherapy applications
- quality and soft material
- ease to use
- standard size for infant





DIGITAL HANDHELD PULSE OXIMETER EP40

Pulse Oximeter EP 40

- Simple** - intuitive control
- Economic** - low power consumption, rechargeable batteries
- Compact** - small dimensions, low weight
- Flexible** - battery or adapter power supply
- Powerful** - internal memory for up to 48-hour data recording
- Compatible** - works with various sensor types
- Practical** - large LCD display, battery condition indicator, value trends visualisation, alarm and time function

The EPSIMED EP 40 is a modern pulse oximeter with many uses, for measuring oxygen saturation and pulse rate. Its compact size, low weight and simple controls are ideal for use in mobile situations.

Basic Equipment

- Graphical display with optional backlighting and large figures enable good legibility of measured values even in poor lighting conditions.
- The plethysmography column provides information on blood circulation and helps in the general classification of patient condition.
- Visualisation of monitored values of oxygen saturation and pulse rate development trends.
- Alarm when limits are exceeded.
- Simple and intuitive menu.

Optional Equipment

- Built-in battery enables operation without mains supply (e.g. during transportation).
- Extended memory for long-term monitoring
- Case



Accessories

For each situation a corresponding sensor type can be found. Sensors are delivered in various specifications:

- for single use
- for repeated use
- for new-borns, children and for adults.



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Technical Data

Oxygen saturation range (SpO ₂)	0% to 100%
Pulse rate range	from 18 to 300 beats per minute
Displayed data	Value of SpO ₂ in % Pulse rate in ppm Plethysmography bar Sensor state Battery condition
Alarm	Adjustable alarm values for SpO ₂ and pulse rate with varying volume Signalling for disconnected or defective sensor
SpO ₂ accuracy	70-100% ±2 digits for adults with finger-clip sensor 70-100% ±3 digits for adults with Flex or Reflex sensors 70-100% ±4 digits for adults with ear-clip sensor 0 - 69% unspecified 70-95% ±3 digits at sensors for children or new-borns
Pulse rate	±3%, ±1 digit
Power supply	alkaline battery 9V for 35 hours operation or rechargeable battery NiMH 8,6V, cca 10 hours operation, charging 4.5 hours or adapter 9 V, 500 mA
Display	graphical LCD, 128 x 64 resolution with LED backlighting
Weight	360 g
Dimensions	165mm x 92mm x 30mm
Operating temperature	0°C up to 50°C
Storage temperature	-20°C up to 70°C
Humidity condensing	10% up to 95%, non-
Insulation resistance	> 12





DIGITAL STATIONARY PULSE OXIMETER EP105

Pulse Oximeter EP 105

Simple - intuitive control

Practical - large LCD display, visualisation of value trends, alarm and time function, battery status indicator

Flexible - mains and battery operation, PC communication

Powerful - internal memory for up to 48-hour data recording

Compatible - works with various sensor types



The Pulse Oximeter EPSIMED EP 105 is intended for non-invasive monitoring of functional arterial oxygen saturation SpO₂ and pulse rate for patients of all age groups from new-borns to adults. The extraordinarily good measuring performance is achieved by the use of digital signal processing technology. This technology also allows patient monitoring on the move or when poorly perfused.

The PC software allows visualisation, printing and archiving of measured values.

Range of Usage

- Monitoring less acute conditions
- Ambulatory practice
- New-born intensive care
- Home care

Basic Equipment

- Backlit display and large figures also enable good legibility of measured values in difficult light conditions.
- Plethysmography curve provides information on blood circulation and helps with patient state classification.
- Visualisation of monitored values of oxygen saturation and pulse rate development trends.
- Alarm when limits are exceeded.
- Simple and intuitive menu
- Light emitting diodes provide immediate information on correct device function, sensor state, measuring and battery condition.
- Memory for long-term monitoring - up to 48 hours of recording.

Optional Equipment

- Built-in battery enables operation where there is no mains supply (e.g. during transportation).
- Built-in thermo-printer documents measuring, records time and date.



Accessories

A corresponding sensor type can be found for each situation. Sensors are delivered in various specifications:

- for single use
- for repeated use
- for new-borns, children and for adults.

Technical Data

Oxygen saturation range (SpO ₂)	0% to 100%
Pulse rate range	from 18 to 300 beats per minute
Displayed data	Value of SpO ₂ in % Pulse rate in ppm Plethysmography curve Sensor state Battery condition
Alarm	Adjustable alarm values for SpO ₂ and pulse rate with varying volume Signalling for disconnected or defective sensor
SpO ₂ accuracy	70-100% ±2 digits for adults with finger-clip sensor 70-100% ±3 digits for adults with Flex or Reflex sensors 70-100% ±4 digits for adults with ear-clip sensor 0 - 69% unspecified 70-95% ±3 digits at sensors for children or new-borns
Pulse rate	±3%, ±1 digit
Communication	RS 232, 9600 Bd for communication with PC
Printer	built-in thermo-printer, paper width 57 mm
Power supply	adapter 9 V, 500 mA or rechargeable battery NiMH 9.2V, cca 10 hours operation, charging 4.5 hours
Display	graphical LCD, 240 x 64 resolution with LED backlighting
Weight	570 g without battery, 1340 g with battery
Dimensions	241 mm x 81 mm x 137 mm
Operating temperature	0°C up to 50°C
Storage temperature	- 20°C up to 70°C
Humidity	10% up to 95%, non-condensing
Insulation resistance	> 12 Mohm



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HEATED NEBULIZER OH-95



Heated nebulizer OH-95 is used for giving moistened and heated oxygen or air in these cases: - resuscitation - oxygenotherapy - medicament inhaling

Description:

Heated nebulizer is designed for improvement of care of the patients treated either in health facilities or at home. Thanks to its unified design it has extensive possibilities of application in all departments dealing with the treatment of upper and lower air passages. The main functional part of the device is an electronic temperature regulator which controls the operation of the heating element which is placed inside the device. The heating element heats the moisturising bath in a special vessel made of stainless steel and glass. The formation of rich aerosol is enabled by micro-nebulizer placed in the upper part of the vessel. The device is delivered with the feeding pressure hose and corrugated patient's hose of standard size. The patient's hose can be set up into required position through a flexible arm. The whole device can be put on the horizontal pad, fixed on the carrier of the heated bed, possibly directly to the patient's bed or to a movable rack which enables the installation of other devices.

TECHNICAL PARAMETERS:

Dimension:	200 x 200 x 130 mm
Temperature range:	25-40 °C depends on flow
Feeding pressure:	0,1 - 0,4MPa
Supply voltage:	230V / 50 Hz
Medical gas:	air - oxygen cannot be used for anaesthetic gases!
Power input:	65W
Protection:	2x T 1,6A
Operating ambient temp.:	+15 - +40°C
Relative air humidity:	30-75%
Device:	class I type B



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ELECTRICAL SUCTION PUMP ES-93



The device is suitable for bed-side suction, for use at operating theatres, at operating theatres in maternity hospitals, at ICU – intensive care units for pathologic newborns, at paediatric departments, at observation units in ambulance cars, etc. It can be used in all situations where devices with simple operation, high reliability and bulkiness are necessary. Noiseless and well-proven diaphragm aggregate with incorporated power unit is used in the device.

The whole device is incorporated in plastic housing; 2 stock bottles for evacuated fluid are fastened at the side of housing. Exchangeable bacteriological bed is built in the device. Suction flask can be with clamp fastened at roll-away rack or at guide rail in ambulance car. Power supply of the device is 230V / 50Hz, it is also supplied with accessories for 12 V car power supply.

Set for continuous suction (e.g. pneumothorax suction) is supplied with adjusted head with possibility of continuous regulation of negative pressure using water column.

TECHNICAL PARAMETERS:

Device:	class 1, type B
Max. negative pressure at suction:	-60 kPa
Supply voltage:	230V / 50Hz, 12V
Dimension HxWxL:	250 x 250 x 250 mm
Weight:	approx. 3 kg
Max. input:	45W
Shielding degree:	EN 55 011
Protection:	2x T315mA / 230V



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VOLUMETRIC INFUSION PUMP VP1000

The VP 1000 series volumetric infusion pumps are intended for intravenous and intra-arterial administration by means of infusion or for enteral feeding, utilizing the latest technology and design. Their advantages are light weight, small dimensions and a compact design with easy control elements.

Each VP 1000 series volumetric infusion pump is provided with an advanced built-in monitoring system controlled by two microprocessors and with a high-precision measuring system, which measures immediate values of pressure in the infusion line in range from 0 kPa to 100 kPa and enables setting of the limit values selected from 30 kPa through 100 kPa in 1 kPa steps. Interaction of both systems ensures a high level of safety for patients.



The VP 1000 series provides the highest standard of user comfort including:

- Variable setting of shut-off occlusion pressure
- Separate display for indication of volume, time or pressure values and of other operation data
- Selection of limit values of volume, time or occlusion pressure
- Automatic calculation of the flow rate from the set values of time and volume
- Advanced internal monitoring system ensuring a high level of safety for patients
- Clearly arranged single-level function control enabling setting of parameters without scrolling a menu
- Storing of parameters of the last infusion



The basic fit-out of the infusion pumps includes an ultrasonic air-bubble detector, a detachable drop sensor and an automatic throttle that stops the flow when the door of the pumping unit is opened. When the pump is connected to the 230V / 50Hz mains, the built-in battery is automatically charged. The full capacity of the battery can be obtained after 16 hours from zero. This enables operation of the device at any flow rate for at least 6 hours.

Due to their wide application scope, high reliability, well-arranged alarm indications and advanced monitoring system in connection with its simple and clear operation controls makes the VP 1000 series volumetric infusion pumps suitable for applications in the most demanding clinical cases.

The VP 1000 series volumetric infusion pumps are composed of selected high-quality components, they are equipped with a reliable built-in calibration system and provided with a program registering all operation data into the internal memory of the device.



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SYRINGE PUMP IP2050

The IP 2050 series includes syringe pumps which ensure accurate and safe administration of medicines and enable flow rates up to 999,9 ml/h to be used.

The IP 2050 series includes syringe pumps which enable immediate measurement of occlusion pressure values from 0 kPa up to 150 kPa and limit pressure values to be set from 30 kPa up to 150 kPa with steps of 1 kPa. This feature of the device makes it possible to set optimum pressure values according to particular clinical condition, thus significantly reducing the evaluation period needed for triggering occlusion pressure alarms.

The IP 2050 series provides the highest standard of user comfort including:

- flow rates up to 999,9 ml/h
- 1000 ml/h fast-feed/bolus rate, with total bolus volume 2 ml
- separate display of volume, time or pressure values
- setting of limit values for volume, time or pressure
- automatic flow rate calculation from values of time and volume
- advanced internal monitoring system ensuring high level of safety for patients
- simple program selection for up to 16 types of syringes
- clearly arranged single-level function control and entering of parameters without needing to scroll a menu memory for the last selected dosing parameters

IP 2050 series syringe pumps are controlled by two standard microprocessors with an advanced internal monitoring system that independently recognizes and evaluates speed and position of the syringe plunger. The control system continuously compares entered infusion parameters with the operation values measured by the monitoring system. If an error is detected, the control system automatically stops the device and triggers an alarm signal.

When the device is connected to the mains (230 V AC, 50 Hz) or to an external power supply (12 V_{DC}), the built-in battery is automatically charged up. The battery is fully charged after 16 hours. This subsequently enables the device to be operated for up to 6 hours, depending on the selected flow rate.

It is possible to store data of up to 16 syringe types in the memory. As default are stored data for syringes 20 and 50 ml:

- CHIRANA
- TERUMO
- OMNIFIX - B. BRAUN
- optional syringes as desired by the user

Due to their wide application range, high reliability, well arranged alarm indication and advanced monitoring system connected with simple and clear operation, the IP 2050 series pumps are suitable for applications in the most demanding clinical cases.

The syringe pump IP 2050 is assembled from high-quality components and is provided with a reliable built-in calibration system and with a program registering all operation data into the internal memory of the device.



IT-94 INFUSION SOLUTION/BLOOD HEATER



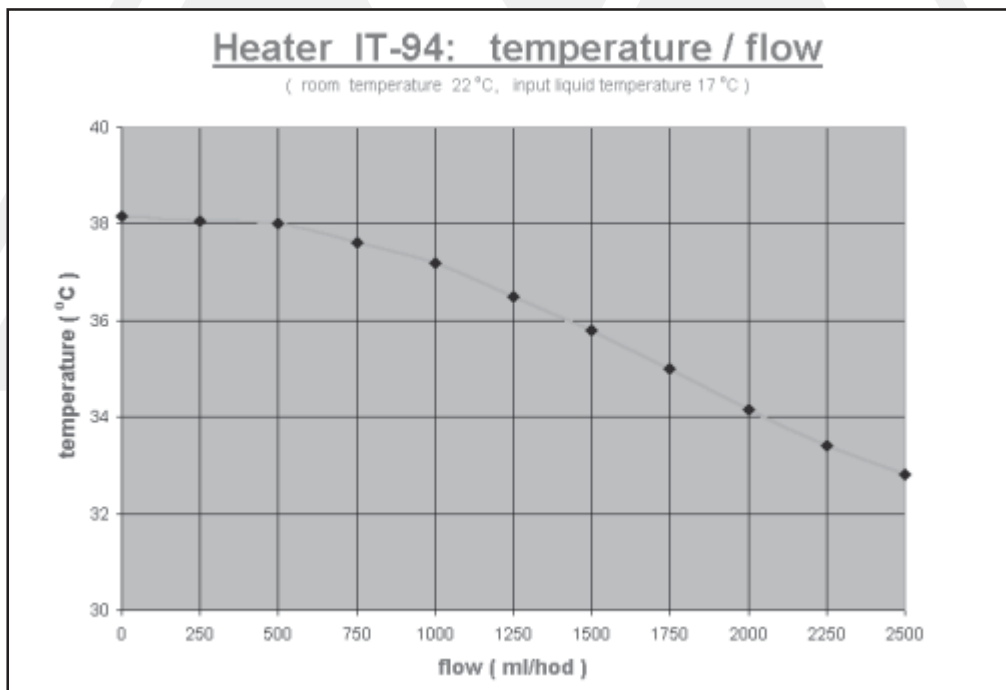
Heater IT-94 is designed for infusion solution / or blood derivate tempering just at giving it to patients. This instrument is especially suitable to a use at intensive care units for adult patient, pediatric and neonatologic wards and at intensive care units for pathological new-born children.

Regulation system of the heater ensures very safe tempering of the solution flowing through the infusion set. Designed / selected tempering mode regulates the heating so that the solution temperature has been kept close-by a patient s bodily temperature.

It means that a thermoregulating patients system can be never destabilized. Double independent safeguarding of the regulation makes impossible exceeding the adjusted maximal temperature limit.

TECHNICAL PARAMETERS:

Size:	170 x 90 x 40 mm
Adjusted max. temp. limit:	38,0° ± 0,5
Weight:	cca 500 g
Max. rate of flow:	2500 ml/hod
Voltage:	230V/21V
Power input:	max. 25W





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UNIVERSAL HEATED WATER BATH BW-5, BW-10

Heated water bath BW-5/10 is designed for a precise and safety heating of bags and bottles with blood, blood derivatives, infusion and other solutions, eatables, depending on the needs of particular departments. This equipment is designed for laboratory and clinical station.



Description:

- In the main part of the device - stainless steel vessel - there is a carrier for heated bags or bottles. Water filling of the device is heated to required temperature.
 - Electronic programmable microprocessor controller is controlled by touch keyboard.
 - The user can set required mode by choosing each parameter on the keyboard (time and temperature parameters) or choose 1 of 10 programmes setup in the memory.
 - Each program can be set up during the production according to customer requirements keyboard.
 - The user can set required mode by choosing each parameter on the keyboard (time and temperature parameters) or choose 1 of 10 programmes setup in the memory.
- Each program can be set up during the production according to customer requirements
 - Electronic controller with continuous autodiagnosics monitors the operating parameters of the device.
 - Built-in pump provides water circulation and thus a uniform temperature in the whole area of the bath.
 - Three independent measuring circuits monitor and, if necessary, regulate the set parameters. If a deviation from the set parameters is detected, the device will report the fail state by optical or acoustic signal and it will switch off the heating element. Therefore the heated solutions cannot be damaged, e.g. due to a high temperature of the water bath.



TECHNICAL PARAMETERS:

Power supply:	230V / 50 Hz
Input power:	max 350W
Safety class:	I
Set temperature:	30 – 65 °C
Accuracy:	0,1°C
Water filling volume:	max. 5/10l (according to type)



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UNIVERSAL HEATED WATER BATH BW-50

Heated water bath BW-S is designed for a precise and safety heating of bags and bottles with blood, blood derivatives, infusion and other solutions, eatables, depending on the needs of particular departments. This equipment is designed for laboratory and clinical station.

Description:

- In the main part of the device - stainless steel vessel - there is a carrier for heated bags or bottles. Water filling of the device is heated to required temperature.
- Electronic programmable microprocessor controller is controlled by touch keyboard.
- The user can set required mode by choosing each parameter on the keyboard (time and temperature parameters) or choose 1 of 10 programmes setup in the memory.
- Each program can be set up during the production according to customer requirements keyboard.
- The user can set required mode by choosing each parameter on the keyboard (time and temperature parameters) or choose 1 of 10 programmes setup in the memory.
- Each program can be set up during the production according to customer requirements
- Electronic controller with continuous autodiagnosics monitors the operating parameters of the device.
- Built-in pump provides water circulation and thus a uniform temperature in the whole area of the bath.
- Three independent measuring circuits monitor and, if necessary, regulate the set parameters. If a deviation from the set parameters is detected, the device will report the fail state by optical or acoustic signal and it will switch off the heating element. Therefore the heated solutions cannot be damaged, e.g. due to a high temperature of the water bath.



TECHNICAL PARAMETERS:

Power supply:	230V / 50 Hz
Input power:	max 2000W
Protection:	fuses: 2 x T 10A/250V
Regulation type:	proportional
Safety class:	I
Set temperature:	30 – 85 °C
Accuracy:	0,1°C
Water filling volume:	max. 50 l





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HEATED WATER BATH BW-S



Heated water bath BW-S is designed for a precise and safety heating of bags and bottles with blood, blood derivatives, infusion and other solutions, depending on the needs of particular departments.

In the main part of the device - stainless steel vessel - there is a carrier for heated bags or bottles. Water filling of the device is heated to required temperature.

Electronic proportional controller with continuous autodiagnosics monitors the operating parameters of the device. Built-in pump provides water circulation and thus a uniform temperature in the whole area of the bath. Three independent measuring circuits monitor and, if necessary, regulate the set parameters. If a deviation from the set parameters is detected, the device will report the fail state by optical or acoustic signal and it will switch off the heating element. Therefore the heated solutions cannot be damaged, e.g. due to a high temperature of the water bath.

TECHNICAL PARAMETERS:

Power supply:	230V / 50 Hz
Input power:	max 400W
Protection: fuses:	1x T160mA/250V 2x T 2,5 A/250V
Regulation type:	proportional
Safety class:	I
Set temperature:	37,5 °C
Number of bags/bottles:	4 / 6
Water filling volume:	max. 7 l



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PASTEURISER / HEATER MP-98



Suitable for all workplaces where breast milk is prepared and stored. Combination of pasteurisation / heating mode enables to use the device in most of newborn, nursery and paediatric departments.

The device operation is simplified to single choice of working mode

- **pasteurisation**
- **heating**

The device is ready for use after inserting basket with bottles into water bath. Heating bath temperature regulation and time needed for pasteurisation or heating of breast milk are controlled automatically, in relation to milk temperature of the inserted bottles. Termination of chosen mode is indicated by acoustic and light signal. Water bath heating is turned off at the same time. Stainless steel container, baby bottles holder and device housing made of plastic material guarantee the observance of sanitary code during breast milk processing at all departments.

TECHNICAL PARAMETERS:

Power supply: 230V / 50 Hz
Power input: max 1000W
Protection: 2x T 6,3 A/250V
Weight: cca 5 kg
Device class: I
Operation: touch keyboard
Signalling: optically / acoustic
Charge: approx. 2,5 l of water
Dimension: 400 x 250 x 250 mm



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MECHANICAL SPLINT OF REHABILITATION RMD-95



Mechanical splint of rehabilitation RMD-95 is designed for lower limbs rehabilitation, that follows after injury or operation (operation of knee joint, joint of the hip, etc.).

The movable part of the device can be very easily adjusted in accordance with the size of a leg. This device can do exercise with the leg at a bright scale of adjustable angles. A speed of the motion is variable, too. Well-arranged control panel gives a bright information on set up parameters as well as on a current position at any moment.

For the event of a malfunction, autodiagnostic breaks the electric drive and gives a report on a screen. A patient also has a possibility to START / STOP the motion by means of double push button switch.

Patient remote control and undercarriage is included.

TECHNICAL PARAMETERS:

Working range:	knee joint:	extension/flection	speed:	0° - 110° 30° - 120°/min
	hipjoint	extension/flection		10° - 80°

Power supply:	220-230V / 50Hz
Input power:	45 W
Controls:	digital
Motion speed regulation:	8 degrees
Weight: approx.	12 kg