



HEATED BED FOR NEWBORNS AND INFANTS VL-22



Timeless design

In 1991 we produced the first LN-91 bed for you. It proved to be a timeless design vision, and that is why we are building on it now, after thirty years of honest work and your satisfaction.

Lifetime

The mobile, robust, all-metal construction with built-in electronic block for control of all instrument operating functions increases durability and, together with carefully selected components, ensures a long service life.

Safety

Safety plays a major role in our devices. Safe use of the bed itself or any of the accessories is a priority. So we pay close attention to this topic and focus on situations that are not only unusual, but deliberately exaggerate risk factors.

Design efficiency and practical use in operation

The advantage of non-built-in devices is the ability to replace or further use additional devices without shutting down the entire bed and its primary function.

Colour combination

As standard, the bed comes in four basic variants. Other colours can be customized.

Light indicator

Maximum situational awareness. It is pleasant during normal operation and immediately draws attention to itself during non-standard events. In combination with the audible alarm, it requires an urgent response.



LCD touchscreen display

The touch-controlled LCD display, even with medical gloves, combines intuitive operation with clarity and efficiency. Heating, observational lighting, phototherapy and APGAR - all in one place.

APGAR

The timer is one of the main functions of the display. The graphical display is accompanied by audio signals after 1, 5 and 10 minutes.

Power failure

The internal power supply is capable of indicating a power failure for a minimum of 15 minutes.





Rotating head

Possibility to move the heating head 90 degrees to both sides.

Positioning and hinged sides of the sleeping area

Smoothly adjustable patient bed with graphic indication of the Trendelenburg/Antitrendelenburg tilt position $\pm 15^\circ$ on the LCD display. For easier access during treatment, there is the possibility of hinging the sides.

Attention to detail and practicality

Practical cut-outs for accessory lines.



Double running wheels

Antistatic, braked with side locking, robust, design.



Lift

The simple foot control of the electric motor allows setting the ideal ergonomic and comfortable height of the treatment area.

Dimensions of the bed section

We offer a choice of two bed dimensions:

500 x 800 mm

650 x 800 mm – optimal for treatment of twins

Storage space with shelf

Pull-out drawers provide ample space for storing essentials. The shelves then offer space for quick stowage.

Custom configurations and positions of shelves and brackets

The movable shelves always ensure the necessary position of the storage area. Its shape allows maximum and easy cleaning.

The number and height position of the hinges is different for everyone. That is why we have developed a new way of fixing and positioning the hinges. These hinges are used for attaching shelf arms and instrument holders. The configuration varies according to customer requirements. If there is a requirement for a special bracket, we will design and manufacture it.

Euro rail

Standardized stainless steel euro rail allows attachment of instrument holders.



Heating perfection

Two ceramic IR heating elements provide perfect temperature distribution. The option to temporarily switch off the front heating element ensures operator comfort during patient treatment.

Two temperature sensors

The heated bed has two temperature sensors.

Built-in lighting

The observation light allows illumination during patient treatment with brightness intensity adjustment.



Built-in LED phototherapy module

Unrivalled phototherapy with maximum treatment effect.

Light source lifetime of at least 60,000 operating hours, i.e., 10-12 years of operation.

Guaranteed output of at least $50\mu\text{W}/\text{cm}^2/\text{nm}$ at a distance of 80cm.

Installation in the upper heating module of the bed ensures maximum therapeutic effect across the entire irradiated area.

Achieves the same parameters as FL-2010 phototherapy on a separate mobile stand.

When using an oxygen micro-stand, the bed achieves an environment close to that of a standard closed incubator.



Heated bed for newborns and infants VL-22

- mobile stand with built-in electronic block for controlling all operating functions of the device, controlled by LCD touch screen and height adjustment
- electronic temperature servo controller + 2 temperature sensors
- storage container with fixed storage shelf under the patient's bed
- upper heating module with 90° movement to each side with two ceramic heating elements
- LED light source with infinitely adjustable illumination intensity of the patient bed
- 2 electrical sockets on the back of the stand for connecting optional accessories
- infinitely adjustable Trendelenburg/Antitrendelenburg patient bed with folding sides
- mattress according to customer's request: without heating / heated pad HM-13
- 4 pcs of hinges for shelf arms and brackets
- 3 pcs of height-adjustable adjustable storage shelves
- 1 pcs infusion holder
- Clamping rail system

Heated bed newborns and infants VL-22F

- built-in LED phototherapy module





Accessories (optional accessories) of the heated bed

HM-13 bottom heating

The combination of the bed and the HM-13 heated pad ensures perfect heating of the patient. As it is a stand-alone device, it can also be used separately.

Spot examination light on flexible arm

LED spotlight 12V / 10W / 10° illuminates every detail in a specific place

T Neopuff resuscitator

with O2/Air mixer and 2 separate outlets for treating twins

AnyWiew G12 Vital Signs Monitor

ECG, Resp, Temperature, SpO2, NIBP
12" color LCD touchscreen display,
display of measured values numerically / curves / trends

Plastic oxygen micro-tent with a diameter of 500 mm

Using an oxygen micro-tent, we simulate the conditions of a closed incubator

Suction pump with vacuum control

Shelf and bracket hinges including specific fixings

Holder for O2 cylinders

Other options

Thanks to our many years of experience and cooperation with our business partners, we can offer you additional devices and accessories as part of our product range, which can be easily integrated into the overall bed system using our special holders and variable clamping points.

Technical specifications

Name of MD:	Heated bed for newborns and infants		
Type:	VL-22 VL-22F		
Model:	S – patient bed size 500 x 800	mm	
	G – patient bed size 650 x 800	mm	
Variant:	white, blue, green, orange		
Power supply:	230/50	V/Hz	
Power input max.:	900	VA	
Electrical protection of the device:	2 x fuse GT632310, 10A / 500V / T / 10kA / 250V		
Class of protection against electric shock:	I		
Level of protection:	IP 20		
Risk class of the device:	IIb		
Sockets for connecting electrical accessories:	2 x max. á 125	VA	
Range of bed height adjustment - linear drive:	300	mm	
Patient bed dimensions:	500 x 800	mm	
	650 x 800 – optimal for treatment of twins	mm	
Patient bed position adjustment with graphic indication	Trendelenburgh / Antitrendelenburgh position +/- 15		°
Total dimensions	1900 x 700 x 1050		mm
Weight:	90		kg
Electronic temperature regulation, modes:	PREHEATING / AUTO / MANUAL		
Adjustable range of temperature control:	30 – 37	setting by 0,1	°C
Range of temperature measurement:	20 – 50		°C
Temperature sensor:	Attachment type BF		
Performance of the heating element:	2 x 400/230		W/V
LED panel lighting:	brightness control, neutral daily 4000K input max. 10 VA		
LED spot lighting:	neutral daily 4000K input max. 10 VA		
Controlled by LCD capacitive touch screen located on the central stand			
Continuous system self-diagnosis			
LED phototherapy module:	input max. 75VA (40W), power 50μW/cm2/nm, lifetime of the light source min. 60 000 operating hours		

Permissible loads:

Bed:	max. 10	kg
Adjustable storage shelves:	max. 5	kg
Bottom fixed shelf:	max. 15	kg

Audio alarm:

Sequence distance:	2,5	s
Pulse frequency:	1000	HZ
Impulse length:	250	ms
Volume:	75	dB
Alarm interruption:	at 15	min

Visual alarm:

Signal colour	Yellow	
Low priority:	permanent light	
Medium priority - flashing frequency:	0,8	Hz
Utilisation factor:	60% light	

Environmental conditions for use:

Range of relative humidity:	30 – 75	%
Range of ambient temperature:	+18 - +30	°C
Ambient air flow velocity:	up to 0,3	m/s
Range of atmospheric pressure:	70,0 – 106,0	kPa



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