



## **VARIOTHERM®**

The infant care system for postnatal care, resuscitation and intensive care

# VARIOTHERM®

New born and premature infants primarily need warmth, cosiness and closest possible contact to their parents during the first hours and days of their lives. The VARIOTHERM® infant care system has been developed for these very special conditions and offers unimpeded access for diagnostic, therapeutically and care measures.

The product line VARIOTHERM® is modular and can be adapted for different purposes, e.g. examination, resuscitation or intensive care. With different types of acrylic wall assemblies and numerous accessories at choice the device can be upgraded to a fully functional care unit.

The suitable version for your application:



## VARIOTHERM® C

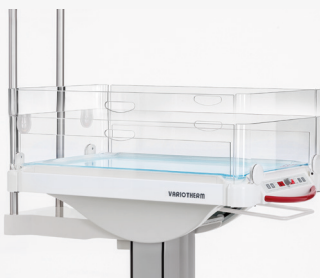
with radiant warmer CERAMOTHERM,  
deck height static or adjustable



## VARIOTHERM® KCE

with radiant warmer CERAMOTHERM,  
under-pad heating with soft-gel pad,  
deck height static or adjustable

Available acrylic wall assemblies:



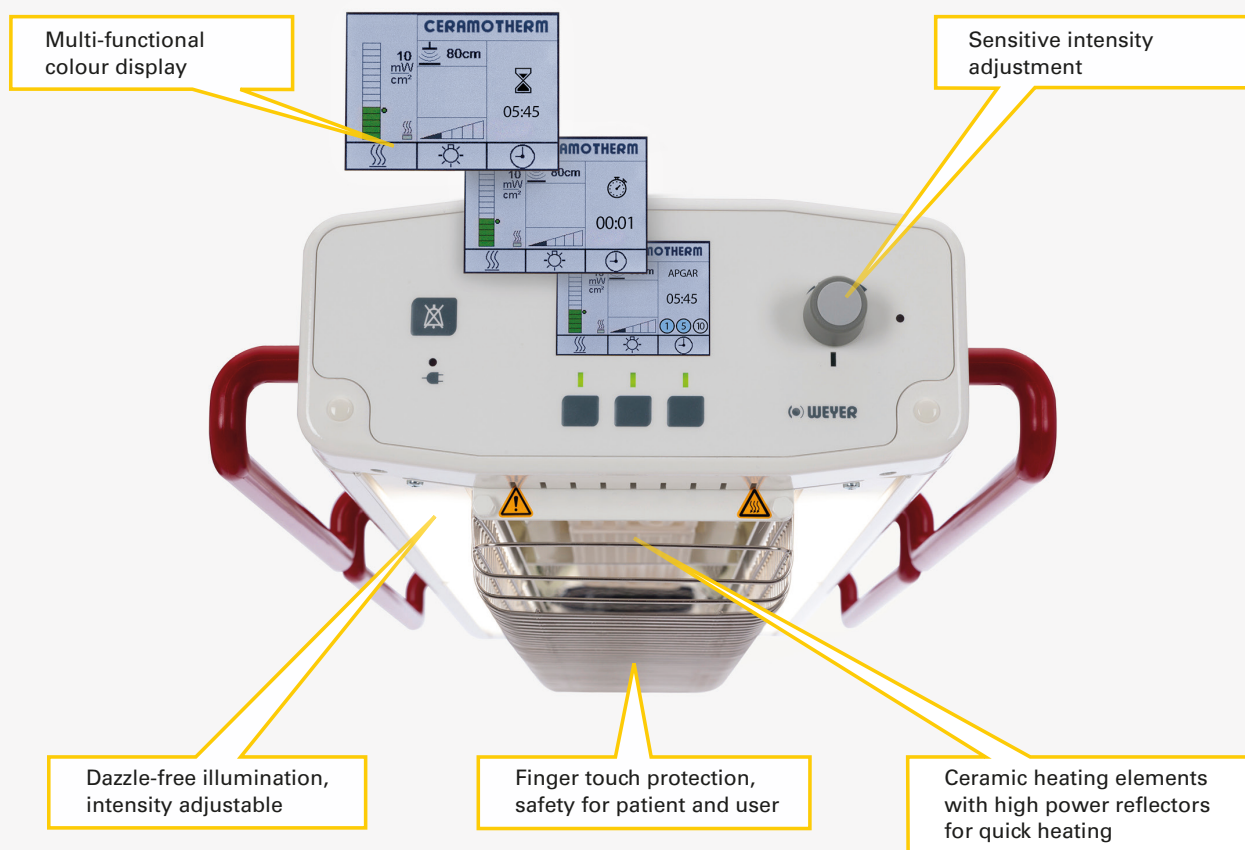
Wall assembly optional 170 mm or  
250 mm high, three sides fold-down,  
always added by two safety side walls



For the VARIOTHERM® infant care system with under-pad heating and wall  
assembly of 250 mm height a one-piece or two-piece canopy is optionally  
available

## Sensible gentle warming and more

The radiant warmer CERAMOTHERM with its numerous functions forms the heart of the warming.



### Gentle warming

Longwave infrared radiation is not visible and takes smooth effect on the epidermis, the subjacent dermis and the bloodstream.

The integrated high power reflector spreads the infrared radiation efficiently and evenly all over the patient deck.

The intensity of the infrared radiation can be adjusted sensitively in  $\text{mW}/\text{cm}^2$ ; optionally the heating capacity can be adjusted in %.

Optionally it is possible to display and control the patients' temperature. \*

Each situation can be precisely recorded by 3 integrated timers (Apgar-, countdown- and stopwatch).

By adjusting its brightness automatically according to different light conditions the colour display can be read-off clearly at any time (day/night).

\* available from 2018

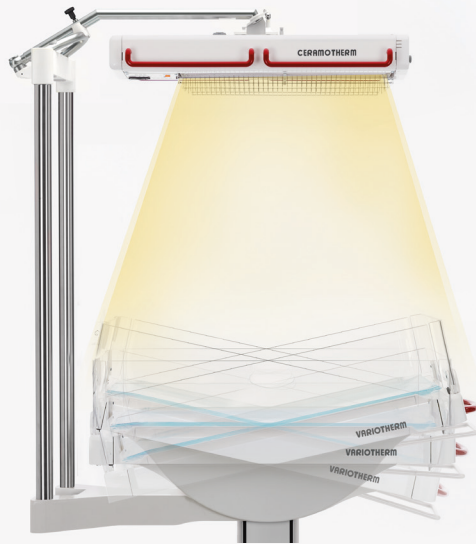
### Homogeneous illumination

For treatment of the little patients the best light is just good enough. Infants, in particular new born babies, are stressed when they are dazzled by a sudden glaring spot-light.

Therefore the large-scale LED illumination switches on and off gently. The little patients remain calm and feel cosy.

The colour temperature of the light guarantees an excellent appearance with 4000 Kelvin and is suitable for examination and minor operations.

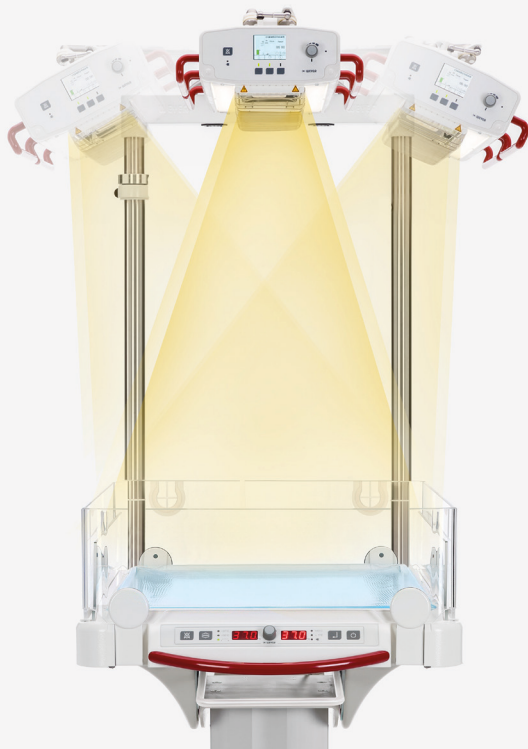
The illumination intensity can be adapted in 5 steps. Therefore the optimum light condition is available for each situation, at day and night.



## Remarkable functions

The patient deck can be easily tilted up and down by one hand. By the EPR-function (Each Position Radiation) an optimum warming comfort for the patient is ensured as he remains in the centre under the radiant warmer and is not exposed to temperature fluctuations.

Moreover, the distance between the patient and connected monitors or devices does not change in any position. Therefore the unwanted detachment of pipes and hoses is prevented when tilting the patient deck.



## Swivelling radiant warmer

No hypothermia or cold stress when the radiator is in swivel position.

By the CCM-function (Clever Curve Movement) the radiation is still focussed on the patient in each swivel position. So the radiation is always where needed without heat exposure to the attending personnel or parents.

## Actively heated gel pad

The VARIOTHERM® infant care systems order no. WY3042 and WY3043 are equipped with an actively heated gel pad.

The soft gel pad is optimized for the little patients and countervails bedsore (Decubitus) even during long-term care.

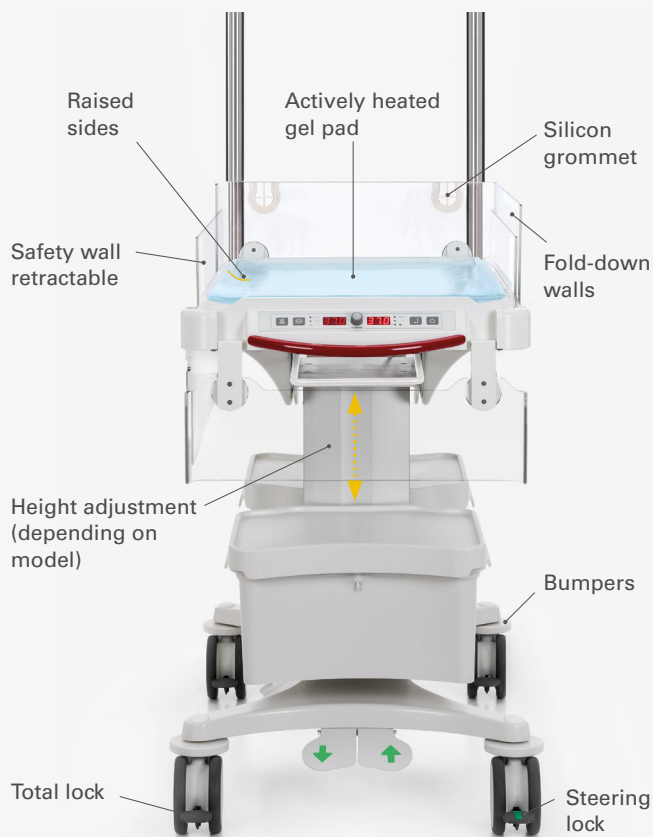
By combination of far infrared radiation and actively heated gel pad the radiation intensity can be reduced noticeably and the patient remains calm and unstressed. To the same extent, transepidermal water losses are also reduced.

The stable thermally neutral environment provides best conditions for an open care.



Under-pad heating  
(depending on model)





## Sophisticated patient deck, functional wall assembly

The walls of the VARIO THERM® infant care system can be folded up and down by one hand. Cables and hoses can be easily passed and fixed through openings or grommets.

The concave shaped sides of the patient deck as well as the safety walls prevent the patient from falling down when the walls are folded-down. For an unimpeded access to the patient the safety walls can be fully retracted in the patient deck.

## Gentle soft-lift adjustment of the suitable height

Depending on the model the height of the patient deck can be adjusted smoothly with foot pedals. The patient will not startle by the movement and feels comfortable.

## Easy change of location

Sturdy smooth double castors provide a stable position of the VARIO THERM® infant care system and allow easy moving. One castor has a steering lock that guarantees a perfect directional stability and allows manoeuvring around corners and furniture.

Four bumpers protect the VARIO THERM® infant care system and the ambulance from damages.



## Necessary material always at hand

During care it is important to have necessary material ready to hand at all times. The drawers of the VARIO THERM® infant care system can be opened in a way that they are accessible from all sides and in every situation.

## Modular components

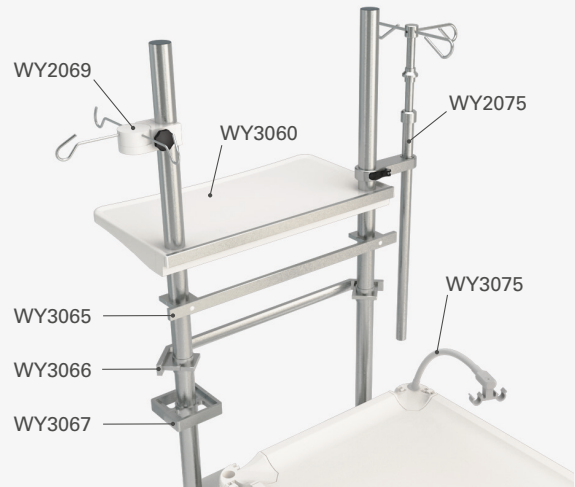
By its numerous components it is possible to create an individual, variable set-up of the VARIOTHERM® infant care system according to different requirements.

Following the use of compatible components complying with standard rail 25 x 10 (EN ISO 19054), not only the components for this module mentioned here can be used. It is also possible to use already existing components as well as devices from other producers, given that this would correspond to their intended use.

By using the power cord order no. WY1858 electrical equipment can be connected to the take-off sockets which are fixed at the VARIOTHERM® infant care system.

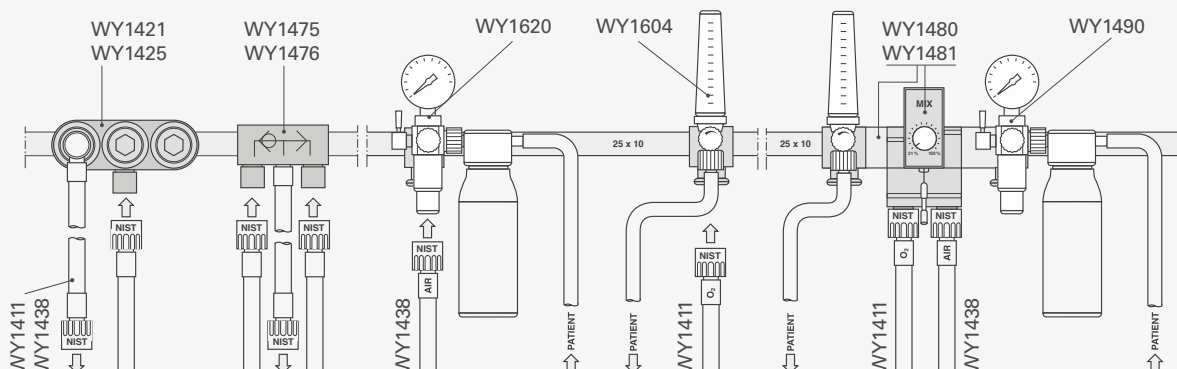
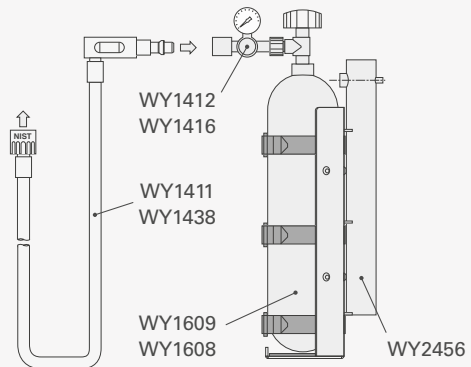
It is possible to fix up to 4 shelves at the soft-lift pillar for storing necessary material.

Alternatively, arc-shaped slide-out drawers can be placed below the shelves (max. 2 drawers per device)



## Provision for compressed air operated equipment

According to the requirements of the care unit it is possible to connect compressed air operated equipment, e.g. suction, insufflation, ventilation and other devices, to central pipelines and pressure cylinders. There are standardized oxygen or air distributors with three take-off sockets available in case more than one compressed air operated unit shall be connected. Optionally available preference valves allow uninterrupted gas supply in case one of the pressure sources is not available.



# VARIOTHERM®

□ standard configuration

▲ essential for use

● accessory

All VARIOTHERM® devices are equipped with:

4 smooth double castors, 3 with total lock, 1 with steering lock, patient deck 480 x 760 mm, Head up/feet down and feet up/head down position adjustable 12°, 3-4 take-off sockets 230 V for additional devices, swivelling radiant warmer with CCM-function, tube assembly Ø 40 mm.

Configuration of base device	Order No.	VARIOTHERM® C with radiant warmer, static height	VARIOTHERM® C with radiant warmer, height adjustable	VARIOTHERM® KCE with radiant warmer, under-pad heating, static height	VARIOTHERM® KCE with radiant warmer under-pad heating, height adjustable
Patient deck without heating		□	□	–	–
Under-pad heating with gel pad		–	–	□	□
Soft-lift height-adjustment, height of patient deck 850-1150 mm		–	□	–	□
Swivelling radiant warmer CERAMOTHERM® 3200		□	□	□	□

**Wall assembly (WY3021 or WY3022)** must be ordered compulsory in addition to the base device

Wall assembly 250 mm high, fold-down, 2 safety side walls	WY3021	▲	▲	▲	▲
Canopy one-piece for wall assembly 250 mm high (WY3021)	WY3024	–	–	●	●
Canopy two-piece for wall assembly 250 mm high (WY3021)	WY3025	–	–	●	●
Wall assembly 170 mm high, fold-down, 2 safety side walls	WY3022	▲	▲	▲	▲

## Upgrade items / accessories

WY3035	Shelf fixed at the pillar, max. 4 shelves per device
WY3036	Drawer arcuately sliding out to both sides, fixed at shelf WY3035, max. 2 drawers per device
WY3032	Additional pair of foot pedals for height adjustment
WY1050 *	Upgrade for patient-temperature measurement and control, integrated in radiant warmer
WY3037 *	Compartment for drawer WY3036
WY3038 *	Clip-on tray for side walls and rail 25 x 10 mm
WY3060	Shelf 590 x 320 mm, fixed at tube Ø 40 mm, foreside instrument rail 25 x 10 mm and rear provision for suspending the canopy
WY3065	High-grade steel rail 25 x 10 mm, straight, fixed at tube Ø 40 mm, EN ISO 19054
WY3066	Instrument rail 25 x 10 mm cranked, fixed at tube Ø 40 mm, EN ISO 19054
WY3067	Compact rail block 25 x 10 mm circular, fixed at tube Ø 40 mm, EN ISO 19054
WY2075	Infusion pole height-adjustable, with fixing clamp for tube Ø 40 mm
WY2069	Infusion pole threefold, with fixing clamp for tube Ø 40 mm
WY3075	Holder for respiration tubes and cables, fixed in the patient deck
WY1858	Power cord for electrical connection of equipment at take-off sockets, 1.5 m length

\* = available from 2018

Various further accessories available

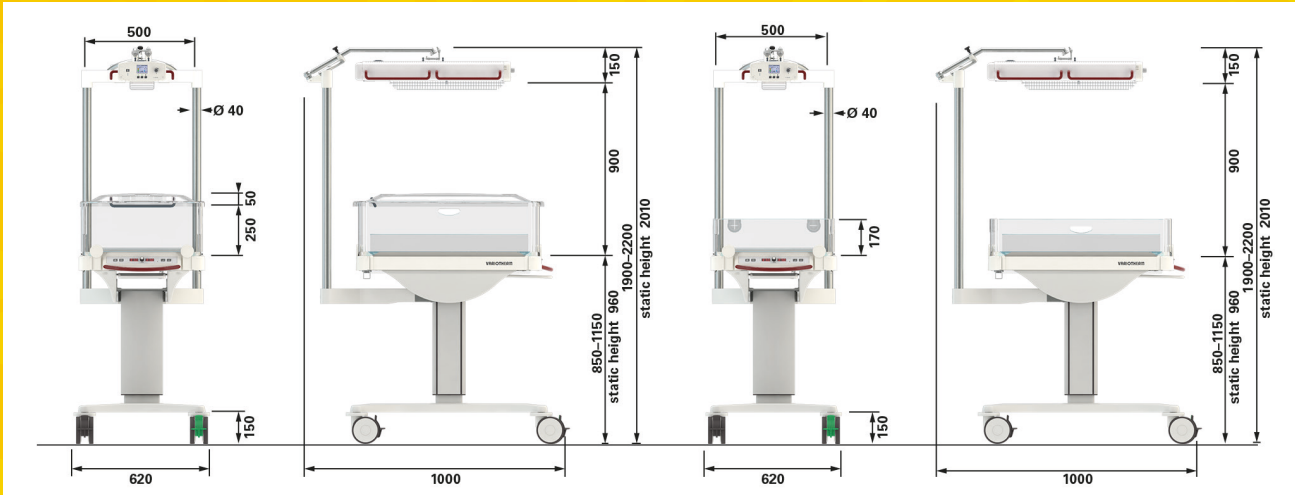
## Gas supply / Suction / Insufflation

WY2456	Holder for gas cylinder Ø 82-110 mm, max. 2 pieces per device
WY1608	Oxygen cylinder Ø 100 mm, EN1089, 3 l-200 bar, volume 600 l
WY1609	Air cylinder Ø 100 mm, EN1089, 3 l-200 bar, volume 600 l
WY1612	Oxygen pressure regulator G 3/4" a, plug-in coupling DIN 13260-2
WY1616	Air pressure regulator R G 5/8" i, plug-in coupling DIN 13260-2
WY1475	Oxygen preference valve, 2 inputs with NIST fitting, output with tube ISO 32 and NIST fitting, fixed at rail 25 x 10 mm
WY1476	Air preference valve, 2 inputs with NIST fitting, output with tube ISO 32 and NIST fitting, fixed at rail 25 x 10 mm
WY1411	Oxygen connection hose ISO 32, NIST fitting, 3 m length, pipeline plug DIN 13260
WY1438	Air connection hose ISO 32, NIST fitting, 3 m length, pipeline plug DIN 13260
WY1421	O2-Distributor, input NIST fitting, 3 take-off sockets DIN 13260, fixed at instrument rail 25 x 10 mm
WY1425	Air-Distributor, input NIST fitting, with 3 take-off sockets DIN 13260, fixed at instrument rail 25 x 10 mm
WY1620	Suction unit for compressed air operation with clamp for instrument rail 25 x 10 mm, NIST fitting, suction bottle 250 ml
WY1604	O2-Flow meter 0-15 l/m, NIST fitting, clamp for instrument rail 25 x 10 mm
WY1480 WY1481	Reanimat O2-Blend, gas supply for O2 and Air NIST fitting, Oxygen concentration adjustable 21 to 100 %, flow adjustable WY1480 = 0 to 6 l/min, or WY1481 = 0 to 15 l/min
WY1490	Suction unit for Reanimat O2-Blend Insufflation device



# TECHNICAL DATA

Order No.		VARIOTHERM® C with radiant warmer, static height	VARIOTHERM® C with radiant warmer, height adjustable	VARIOTHERM® KCE with radiant warmer, under-pad heating, static height	VARIOTHERM® KCE with radiant warmer under-pad heating, height adjustable
		WY3040	WY3041	WY3042	WY3043
Electrical parameters	Under-pad heating	–	–	180 W	180 W
	Soft-lift pillar	–	120 W	–	120 W
	Radiant warmer CERAMOTHERM 3200	900 W			
	Take-off sockets for accessories	4	4	3	3
	Max. power input	2300 W			
	Voltage	230 V / 50 – 60 Hz			
Operating parameters	Head up/feet down and feet up/head down position adjustable to	12°			
	Pad	PU foam		Silicone gel	
	Selection range of under-pad heating	–		Standard 35.0-37.0°C Extended 30.0-38.5°C	
	Illumination	2 x 1250 lm, dimmable			
	Colour temperature of the light	4000 K			
	Heating element of radiant warmer / wave length	2 ceramic / 1.5 - 6 µm			
	Selection of radiation intensity	2-22 mW/cm2			
	Function "automatic intensity reduction"	Yes			
	Display of selected, actual value and residual heat	Yes			
Dimensions and Weight	Weight	70 kg	76 kg	77 kg	83 kg
	Dimension of patient deck	480 x 740 mm			
	Height of patent deck	960 mm	850-1150 mm	960 mm	850-1150 mm
	Diameter of tube assembly	40 mm			
Classification according to Directive 93/42/EEC		IIa		IIb	



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