Babyleo® TN500 IncuWarmer

The Dräger Babyleo TN500 is the first IncuWarmer to continually stabilize temperature while still providing an easier workflow, noise and light control, family centered care and excellent infection prevention. No other IncuWarmer on the market can provide this advanced technology.

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Dräger. Technology for Life®

Technical Data

Ambient Conditions During Operation	Value
Temperature	20 to 35 °C (68 to 95 °F)
Ambient pressure	620 to 1,100 hPa (9.0 to 16.0 psi)
Relative humidity	20 to 95 %, non-condensing

Power Supply	
Mains power connection	100 V to 240 V, 50/60 Hz
Maximum power consumption	1000 W

Dimensions	
Device (width x depth)	1,154 mm x 690 mm (45.43 in x 27.17 in)
Height (with hood closed)	1,850 to 2,250 mm (72.83 to 88.58 in)
Height adjustment range	400 mm (15.75 in)
	Electrical height adjustment for optimum adaptation to clinical users
Weight	<140 kg (308.6 lbs) (without options and accessories)
Mattress area	450 mm x 690 mm (17.72 in x 27.17 in)
Adjustment range mattress	90 mm (3.54 in)
Inclination of the mattress tray	Continuously variable electrical mattress tray tilt mechanism (up to 13°) to both sides and bed height adjustment
Side wall height	205 mm (8.07 in) with mattress tray in bottom position
X-ray tray	464 mm x 379 mm (18.27 in x 14.92 in)
	For larger film formats remove the x-ray tray and insert detector.
	Tray is accessible from outside for taking x-rays without disturbing the patient.
Display	264 mm (10.4 in) Color- Touchscreen

Operating Modes	Measured Value Display
Air temperature regulation	Setting range 34 to 38 °C (93.2 to 100.4 °F) (55.4 to 113 °F)
	<28 °C (82.4 °F), after confirmation
	>37 °C (98.6 °F), after confirmation
	Measurement range 13 to 45 °C (55.4 to 113 °F)
Radiant warmer	with 2 heating elements for an optimal and even heat distribution on the mattress area, automatic adaption of radiant warmer when mattress is tilted
	Setting range Off, 10 % to 100 %
	Pre-warm mode:
	100 % for 3 minutes
	60 % for 11.5 minutes
	30 % until setting is changed
Skin temperature regulation	Setting range 34 to 38 °C (93.2 to 100.4 °F)
	>37 °C (98.6 °F), after confirmation
	13 to 43 °C (55.4 to 109.4 °F)
Skin temperature monitoring	2 temperature sensors for central and peripheral skin temperature, graphical display of skin temperature

Operating Mode	Measured Value Display
Heated Mattress (Optional)	X-ray translucent, x-ray tray can be used for acquisition of x-ray images
	Setting range Off, 35 to 39 °C (95 to 102 °F), AUTO
Humidifier regulation	Closed servo-humidification system with external water reservoir, boiling and evaporation of Aquadest.
	Water bag holder on rear of main column.
	Normal measurement range: 30 to 99 % RH
	Setting range: Off, 30 to 99 % RH in steps of 1 %, AUTO

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Operating Mode Measured Value	Display
Oxygen regulation (Optional)	Servo-controlled Oxygen enrichment in patient compartment with connection to central O_2 supply and/ or to O_2-cylinder mounted on device
	Measurement range
	Normal range: 18 to 65 Vol%
	Extended range: 66 to 99 Vol%
	Measurement inaccuracy in normal range: ± (2,5 Vol% + 2,5 % from reading)
	O_2 rise time from 21 to 65 Vol%
	<10 minutes
Flow velocity over mattress surface	10 cm/s (3.94 in/s) (with a horizontal mattress tray and an air temperature of 36 ℃ (96.8 ℉))
Operating volume in patient compartment	Typically 40 dB(A), measured without oxygen application
Noise measurement in patient compartment (Optional)	Measurement range 35 to 99 dB(A)
Light measurement in patient compartment (Optional)	Measurement range 3 to 999 Lux (1 to 93 fc)
Scale (Optional)	Measuring range (incl. tare): 200 to 10,000 g (0.44 lb to 22 lb)
	Display range: 0 to 10,045 g (0 to 22 lb 2 oz)
	Resolution (OIML version): 5 g (0.011 lb)
	Resolution (standard version): 1 g (1 oz)

Ergonomic Access to Patient	Detail
Hood	Quick and simple mechanical opening and closing of the hood, power supply independant, also possible when device is switched off, softened closing, opening time typically < 2 sec
5 Hand ports	2 Jumbo-Handports per side for access to entire mattress area plus additional hand port at the front
2 side access panels and front access panel	Hinge down all access panels for patient access for medical interventions and primary care. Pulling out the bed support for medical procedures and for parents enabling close contact to their baby.
10 Grommets	Double at each corner and single grommets at front and back of the patient compartment

Further Functionality	Detail
Views	Main page, Thermomonitoring, Developmental Care, Family View
Graphical and tabular display of trends	2 hours to 7 days for temperatures, heating, noise level/ light level measurement, weight, events
Lock	Screen, height adjustment, bed tilt against accidentally adjusting the device settings
Timer	Stopwatch and APGAR timer with alarms after 1 min, 5 min, 10 min.
ClearView	Condensation management, the radiant warmer runs on a low level to reduce condensation on the inside of the hood.
Transition	Standby operation between incubator and radiant warmer to ensure a rapid change of operating mode without loss of heat. In incubator operation, the radiant warmer is running on a low level, in radiant warmer operation the convection heater is preheated.
Alarm management	Ramping alarm volume, suppression and delaying of alarms automatically and proactively, Audio pause, AutoSet for alarm limits, Alarm volume setting range 50 – 70 dB(A)
Playing Audio files (Optional)	Connect external MP3 Player or cellular phone for playing music or parents' voices via the integrated loudspeakers, volume is limited to a maximum of 55 dB(A) regardless of the volume set.

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Further Functionality	Detail
Light	Working light (3 intensity options), night light, moodlight (7 color choices available).
Storage (Optional)	Lockable drawer with insert
	Arms for monitors, IV pumps, examination lights and shelves can be mounted on the duct rails on right and left side of the main column. Standard rails on front and rear for mounting accessories and bed coupling.
Castors	4 double castors with locking brakes, one can be locked as directional castor for straight movement
Reprocessing	Simple device reprocessing, only a few number of parts have to be disassembled, plain surfaces, surface disinfection of all parts
Data Exchange and Interfaces	Serial port COM (Medibus.X Protocol), USB port, Nurse call, Service port (RJ45)

Materials	Detail
Bisphenol A (BPA)	The patient compartment of the device (without accessories) is BPA-free
Latex	The device (without accessories) contains no latex-containing components
Gas cylinder holder (Optional)	Quick release holder for attaching gas cylinders (1 oxygen and 1 air) to the trolley — max. total height 33 – 76 cm (12.99 to 29.92 in) — max. diameter 10 – 14 cm (3.91 to 5.51 in)

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