

Isolette® TI500 Neonatal Transport

Transport neonates safely, comfortably and with a minimum of stress with a fully-featured, high-performance transport incubator.



Benefits

Rugged design for maximum performance

The durable design of the Isolette TI500 means it can be taken nearly anywhere and still provide the warm, safe environment and quick access necessary for optimal neonate care. Built in accordance with stringent IEC and CE standards, the TI500 is low maintenance and features both easy cleaning and servicing.

NICU-level care - anywhere

Used in thousands of hospitals around the globe, the Isolette® is an integrated, full-feature incubator solution. Caregivers can select temperature, humidity and oxygen concentration of the incubator microenvironment while the Isolette® provides continuous data on the temperature of the newborn.

Flexible power options

The Dräger Isolette® can run on 120 or 240 VAC line voltage (50/60/400 Hz), 12 or 28 V DC, or internal battery power, giving users optimal flexibility during transport.

Quick access to the infant

The head access / slide out mattress feature allow quick and easy access to baby for intubation or CPR.

Designed for safety

All controls and monitors are situated in the front of the device for easy viewing and quick access.

Clear view of the infant

The hand-made acrylic hood is scratch resistant to maintain transparency over time, and an integrated examination light gives you high quality illumination for visual evaluation.

Many options and accessories to choose from

The high hood option further facilitates access to baby and provides more room for larger babies, clinical disposables (diapers, blankets, etc.) and even more uniform air flow and temperature distribution. Add an i.v. pole, a second monitor shelf or increase the offline range with an additional external battery.

Accessories



D-7384-2009

Neonatal Care Accessories

Dräger accessories for neonatal ventilation and thermotherapy ventilate gently and effectively, reduce stress and help promote the development of the newborn with a wide range of accessories designed specifically for use with the smallest of patients.

Technical Data

Physical Attributes (without options/ accessories)	TI500	TI500 with 147 stand
Height	20 in (50.8 cm)	min- 32 in (81.3 cm) max- 44in (111.8 cm)
Width	20.8 in (52.7 cm)	22.3 in (56.5 cm)
Length	37.8 in (95.9 cm)	40.3 in (102 cm)
Weight(1)	108.5 lbs (49.2 kg)	159 lbs (72 kg)
Distance from vertical hood to mattress	Low Hood 8.25 in (21 cm)	High Hood 9.84 in (25 cm)
Standard Features		
Double wall		
Skin temperature probe		
O ₂ inlet		
Examination lamp		
2 access doors		
2 disposable infant restraint straps		
1 Iris port		
2 Quiet Touch™ port doors		
6 tubing ports		
Locking power control receptacles		
DC cable		
2D or 2E size tank mounts		The tank mount permits mounting gas cylinders with a diameter of up to 4.5 in (11.6 cm) and up to 34 in (85 cm) in length
Humidity Pad(2)		
Optional Features		
Accessory shelf, IV pole, * High Hood, * Pressure Regulator and Flowmeter		
General Specifications		
O ₂ concentration range	21% to 58% minimum	
Humidity capacity	50% to 70%	
Noise level	<60 dBA(3)	
Performance Characteristics		
Temperature set range	22.0 °C - 38 °C (71 °F - 100 °F)	
Temperature rise time	30 minutes	
Temperature variability	≤1.0 °C	
Temperature overshoot	≤2.0 °C	
Temperature uniformity	≤1.0 °C	
Correlation of display temperature to set point at temperature equilibrium	≤ 2.0 °C in 10-20 °C ambients ≤1.5 °C in 20-30 °C ambients	
Humidity pad	Holds 400 ml.(14 oz) sterile distilled water with no significant spillage for up to 45° tilt in either direction.	
Air filter	Removes >99% of airborne particles greater than 0.5 micron diameter	
Relative humidity	50 to 70% for 10-12 hours using humidity pad	
Check calibration key	36.0 ° ± 0.1 °C	
Controller Displays		
On/standby	Illuminates when "On"	
Battery condition status	4 LED indication of battery charge condition 25-100%	
Power mode	Illuminates AC, DC, or external DC	
Heater power	4 LED indication of heater power; 25-100%	
Baby temperature °C	Displays infant temperature	

Technical Data

Air temperature °C	Displays incubator air temperature
Set temperature	Illuminates when changing set temperature
Alarm indicators	High temp, Power fail, Sensor fault, Heater temp, Air flow, Low DC

Battery Specifications(4)

Incubator	1 battery standard (2nd optional)
Type	Vented rechargeable, 12 Vdc, 24 AH gel-type battery (lead acid)
Battery rating	Incubator maintains a differential of 25 °C (77 °F) between ambient and set point for 90 minutes on 1 battery or 180 min. on 2 batteries at full heater power
Life expectancy	200 complete charge/discharge cycles minimum
Charge time	10 hours per battery from full discharge

Safety Alarms

High temperature	Actuates if incubator air temp. $>39 \pm 0.5$ °C
Sensor (temperature)	Actuates if sensor fails
Heater temperature	Actuates if heater temp >77 °C (170 °F)
Power fail	Actuates if AC fails and no DC power present, and activates if unit switches from AC to DC current
Air flow	Actuates for fan failure
Low DC	Actuates if $DC < 10.5$ Vdc, or external 28 Vdc falls below 25.5 Vdc nominal
Silence/reset	Silences the audible portion of alarms for 5 minutes, except Power fail. Resets Sensor & High Temp alarms after 100% conditions corrected. Resets intermittent power alert if unit switches from AC to DC current

Environmental

Storage temperature	-40 °C to 70 °C ambient
Operating range	Sea level to 3 km (10,000 ft.) non-pressurized environment. Sea level to 12 km (40,000 ft.)-pressurized environment

Relative Humidity

Operating range	0% to 95% RH, non-condensing
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Electrical

AC power requirements	110/120 V, 50/60/400 Hz - 220/240 V, 50/60/400 Hz
DC power requirements	11-13 V, 200 W (max) - 26-30 V, 200 W (max)
Observation lamp	35 footcandles - 4 inches above mattress 376 lux - 10 cm above mattress

(1) Weight includes one battery

(2) Humidity pad prevents spills

(3) In ambients of 50 dBA or less

(4) TI500 will maintain a differential of 25 °C (77 °F) between ambient and Set point for 90 minutes (one battery) or 3 hours (two batteries). At differentials <25 °C (<77 °F), the TI500 maintains temperatures for longer periods

Ordering Information

Accessories

Organizer tray for Resuscitaire slide through drawer	MU11132
Second Battery Option	MU05598

Ordering Information

Accessory Shelf

Standard Hood	MU05619
High Hood	MU05841
IV Pole	MU04500
Conversion Kit to High Hood	MU06094

Notes

Notes

CORPORATE HEADQUARTERS

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