Dräger

Infant transport incubator.

ISOLETTE® TI500

Mobile intesive care unit.

APPLICATION

The Isolette TI500 Transport Incubator from Dräger is a self contained, mobile, intensive care unit.

THERMAL PERFORMANCE

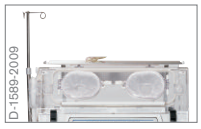
Consistent air temperature is essential to the health of a premature infant. The Isolette TI500 Transport Incubator has a double wall design which reduces radiant heat loss from the infant during transport between departments or between hospitals.

INTERGRAL HUMIDITY

Humidity is extremely important, especially for babies less than 26 weeks in gestational age. An integral humidity pad helps minimize the infant's evaporative heat loss by providing 50 to 70 percent humidity in the patient hood for up to 12 hours.

COMMAND & CONTROL

The controller features a display that is easy to read at any angle during transport. Displays for air and skin temperature help you maintain control and provide essential information about the infant's thermal support. Visual indicators for battery power status, power source and system alarm status are designed to keep the caregiver in command.



ACCESSORIES

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

Accessory Shelf

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

FLEXIBLE POWER SOURCE

Regardless of whether it is an air or ground transport, power is the last thing you should worry about. The Isolette TI500 Transport Incubator from Dräger operates on AC or DC power, using AC when available or switching to its internal battery when necessary. For extended length transports, the system can be configured with a second internal battery. And of course the Isolette TI500 Transport Incubator also operates on the external DC power found on board emergency transport vehicles.

ACCESS MADE EASY

Access to the infant is quick and easy through the front access door, the head door, or through the Quiet Touch™ port access doors. The head door folds down and the mattress retracts out from the hood to provide access for emergency procedures. An iris port and six tubing ports offer ventilator tubing support and entry possibilities for sensors while keeping the temperature stable.

HOOD OPTIONS

You can choose either a standard hood or a high hood. While both have a low profile, the high hood offers two more inches of clearance through a larger front access door.

INTEGRATED EXAM LIGHT

An integrated exam light provides evenly distributed illumination to the mattress, assisting you in accurate patient assessment during transport.

THE RIGHT SIZE AND WEIGHT

To make transport easy, the Isolette TI500 Transport Incubator is designed to fit into smaller spaces. System weight has also been reduced to enhance mobility and ease access in and out of emergency transport vehicles.

TECHNICAL SPECIFICATIONS ISOLETTE® TI500 INCUBATOR

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 l0-20° 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.l° 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
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

TECHNICAL SPECIFICATIONS DRÄGER ISOLETTE® TI500 INCUBATOR

Safety Alarms	
High temperature.	Actuates if incubator air temp. >39 ± 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

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

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The quality management system at Draeger Medical Systems, Inc. is certified according to ISO 13485, ISO 9001 and Annex II.3 of Directive 93/42/EEC (Medical devices).

90 50 463 | 09.10-5 | Marketing Communications | LSL | LE | Printed in Germany | Chlorine-free – environmentally compatible | Subject to modifications |