

## Air-Shields® Isolette® C450 QT

### Infant Incubator

#### Application

The Air-Shields® Isolette® C450 QT Infant Incubator has been developed to address the unique requirements of infants.

The Air-Shields® Isolette® C450 QT Infant Incubator provides thermally controlled environment required for any neonate. The incubator features both baby and air modes of operation.

The important addition of Quiet Touch QT™ features to the Isolette® Infant Incubator helps to reduce adverse stimulation shown to have an effect on the well-being of these neonates.



**Air-Shields®**  
A Dräger Medical Brand

## Features

### Microprocessor-based controller

Our microprocessor-based controller features large, bright displays that are easy to see for viewing from a distance or at an angle. This controller is user-friendly and removable for cleaning or maintenance. A keypad lock helps prevent inadvertent changes to user settings. All control buttons provide tactile feedback with visual conformation of changes, while the smooth front panel design is easy to clean.

### Double Wall Hood

Air-Shields® Double Wall Hood is designed to decrease radiant heat transfer between the baby and the incubator walls. The inner wall can be easily removed for cleaning without the use of tools.

### Air Curtain

The Air-Shields® Isolette® C450 Incubator incorporates a patented Air Curtain. The Air Curtain creates a barrier of warm air when the access panel is open. This unique feature allows total access while helping to minimize the drop in the air temperature within the incubator hood.

### Standard Features

- Quiet Touch QT™ port door latches reduce unnecessary noise
- Patented Air Curtain to reduce temperature fluctuations during access
- Smooth functioning, continuously variable mattress tilts
- Large hood for improved access
- Removable microprocessor controller with keypad lock
- Iris ports for ventilation tubing support
- Auxiliary air probe for accurate air temperature measurement directly above the baby

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

## Technical specifications

### Physical characteristics

Height	55 in (140 cm)
Width*	38 in (97 cm)
Depth*	20 in (51 cm)
Weight	168 lbs (76 kg)
*Note: Wheels can add 3 each (6 max) to width or depth. Unit detaches from stand	
Adjustable mattress tilts	±9° ±1°
Wheels	5" diameter, Antistatic type

### Mattress

Width	25 in (63 cm)
Depth	13.75 in (35 cm)

### Physical characteristics with guard rail option

Width	45.25 in (115 cm)
Depth	22 in (56 cm)
Weight of guard rail	13.5 lbs (6 kg)

## Temperature sensor

Standard air mode	Fixed air temperature probe thermistor, and auxiliary air probe
Baby (skin) mode control	Via reusable or disposable skin probes

### Power requirements

Voltage range	100-240 VAC ± 10%
Frequency	50/60 Hz
Power consumption	500 W max

### Performance characteristics

Air Curtain included as standard

### Baby (servo skin) control\*

Range	34 to 37.9°C
Accuracy	±0.3°C

### Air control

Range	20 to 38.5°C
Accuracy	±0.3°C

### Oxygen concentration

Range	21% to 65%
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### Humidity

Internal reservoir up to 70% RH  
Dew-ette® 2 servo humidity option

### Displays and controls

Auto key lock	15 sec
Air mode default	35°C
Baby mode default	>37°C
retains last setting override	
Alarm silence	15 min
Power fail silence	2 min
Heater power indicator	0% to 100% in 20% increments by amber LED bar indicator

### Alarms

Remote alarms optional	
Baby set temp	±1.0°C ±0.3°C
High air set temperature	±1.5°C ±0.3°C
Low air set temperature	-3.0°C ±0.5°C
High air temperature	39.5°C ±0.2°C
Set temperature < 37°C	37.5°C
Set temperature > 37°C	39.5°C

### Probe alarms activated by:

Baby (skin) probe failure  
Air thermistor probe failure  
Auxiliary air probe failure

### System alarms

Air flow fail  
Power failure  
System failure

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