

CosyCot™ INFANT WARMER

CosyCot™ Infant Warmer

Mobile Infant Warmer

Neopuff™ Infant T-Piece
Resuscitator

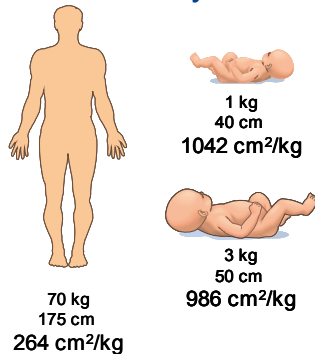


Fisher & Paykel
HEALTHCARE

Why Infant Warming is Vital

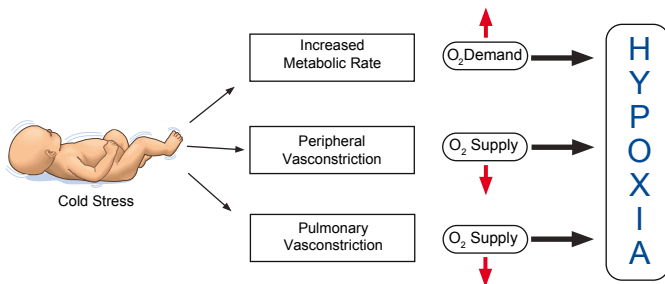
Immediately after delivery the newborn baby experiences some degree of thermal instability as it moves from the warm stable environment of the mother's womb to the cooler environment of the delivery room. Research has shown that any significant fall in the baby's temperature will increase mortality risk¹.

Immediately After Delivery



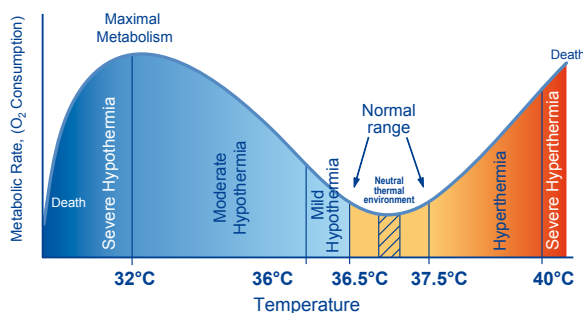
- A newborn baby has around four times greater capacity to lose heat than an adult.
- A newborn baby will lose heat via radiant and convective losses to the cooler environment, evaporative losses through the skin and conductive losses to cooler surfaces.
- A full-term baby's temperature can fall by 1 to 2°C over 30 minutes².

The Result of Cold Stress



- Rapid cooling will produce cold stress that can increase the baby's metabolism and oxygen consumption and this may eventually lead to hypoxia.
- The effects of cold stress can be reduced if the baby is promptly returned to thermal stability after delivery with safe, powerful and controlled radiant warming.

The Thermal Neutral Zone



- Thermal stability is essential for every baby, especially those with limited metabolic capacity due to illness, prematurity or low birthweight.
- Both heat stress and cold stress can result in the baby using more of their limited metabolic capacity for thermoregulation and less for growth and survival.
- For optimal thermal stability the baby's temperature must be kept within the Thermal Neutral Zone. Research has shown that the Thermal Neutral Zone for preterm babies less than 30 weeks, is less than 0.5°C³.
- Once stabilized in the Thermal Neutral Zone, energy expenditure and oxygen consumption is minimized promoting optimal growth.

1. Richardson et al (2001) SNAP-II and SNAPPE-II: Simplified newborn illness severity and mortality risk scores. J. Paed:38:92-100
 2. Fanaroff and Martin (2002) Neonatal - Perinatal Medicine, Diseases of the Fetus and Infant. 7th Edition:1:423-425
 3. Wheldon and Hull (1983) Incubation of very immature Infants. Archives of Disease in Childhood.



What Makes Our Warmers Different

Fisher & Paykel provides the best thermal management systems to ensure that the baby's limited metabolic capacity is used for growth rather than for thermoregulation.

For an ideal warming system, ease-of-use is as important as functionality and performance.

Our infant warmers provide advanced warming capabilities while using one-touch operations to simplify day-to-day use.

Choose from the fully featured and easily transported CosyCot™ Infant Warmer for Labor & Delivery and NICU, to the Mobile Infant Warmer for convenient warming wherever needed.

CosyCot™ Infant Warmer

In Labor & Delivery

Fisher & Paykel Infant Warmers **rewarm and stabilize** the newborn baby immediately after delivery. The integrated bassinet and optional accessories offer convenient and easy-to-use equipment for optimal thermal care and resuscitation.

Easy-to-Use

- While technologically advanced, we have kept the warmers simple and easy-to-use with one-touch controls.

Warming Without Delay

- The Prewarm Mode allows the warmer to be kept 'baby ready' without nuisance alarms. When needed the warmer provides safe, powerful and controlled warming to restore the temperature drop experienced by the baby immediately after delivery.

Focused Heating

- The small heater makes it easier to work with the baby by efficiently providing even heat distribution across the mattress and not into the surrounding environment.

Neopuff™ Infant T-Piece Resuscitator

- The Neopuff™ Infant T-Piece Resuscitator provides optimal resuscitation with safe and controlled peak inspiratory pressure (PIP), and a consistent and precise positive end-expiratory pressure (PEEP).

Configurable

- The modular design of the CosyCot™ Infant Warmers allows for modules and accessories to be installed to suit your needs today and as they change in the future.

Lightweight and Mobile

- The CosyCot™ Infant Warmer can be easily moved throughout the hospital with the optional UPS Battery Module providing continuous power during transport.



CosyCot™ Infant Warmer

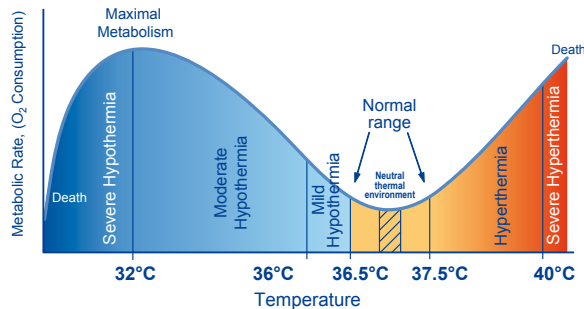
In Labor & Delivery



CosyCot™ Infant Warmer

In Neonatal Intensive Care

Fisher & Paykel Infant Warmers **measure and respond to the small changes faster** using precise, frequent and reliable measurement and control of the baby's temperature.



Stable Temperature Control

- The baby's temperature must be kept within the Thermal Neutral Zone to ensure that the baby's limited metabolic capacity is used for growth rather than for thermoregulation.
- Research has shown that the Thermal Neutral Zone for preterm babies less than 30 weeks, is less than 0.5°C¹.
- CosyCot™ Infant Warmers utilize sophisticated control algorithms to ensure the baby's temperature is continuously maintained at the desired set temperature.

Easy-to-Use

- While technologically advanced, we have kept the warmers simple and easy-to-use with one-touch controls.
- The CosyCot™ bassinet includes CornerGrips™ for low-level placement of tubes, drains and cables without interference during opening and closing of the bassinet side.

Warming Without Delay

- The Prewarm Mode allows the warmer to be kept 'baby ready' without nuisance alarms. When needed the warmer provides safe, powerful and controlled warming to maintain the baby's temperature within the Thermal Neutral Zone.

Focused Heating

- The small heater makes it easier to work with the baby by efficiently providing even heat distribution across the mattress and not into the surrounding environment.

Neopuff™ Infant T-Piece Resuscitator

- The Neopuff™ Infant T-Piece Resuscitator provides optimal resuscitation with safe and controlled peak inspiratory pressure (PIP), and a consistent and precise positive end-expiratory pressure (PEEP). The Neopuff™ can easily be set to duplicate ventilator settings during circuit changes and other procedures.

Configurable

- The modular design of the CosyCot™ Infant Warmers allows for modules and accessories to be installed to suit your needs today and as they change in the future.

1. Wheldon and Hull (1983) Incubation of very immature Infants. Archives of Disease in Childhood.



CosyCot™ Infant Warmer

In Neonatal Intensive Care



- 1 Bent IV Pole
- 2 Accessory Hook
- 3 Long Mounting Pole
- 4 Flowmeter Module
- 5 neoweigh™ Infant Scale
- 6 neoBLUE® mini Phototherapy Lamp
- 7 Neopuff™ Infant T-Piece Resuscitator
- 8 Wall Suction
- 9 Gas Low Pressure Module
- 10 CosyGrip™ Tube Holder
- 11 CornerGrip™ Tube Holder
- 12 X-Ray Tray
- 13 Transport Handle
- 14 Dual Cylinder Rack
- 15 Suction Canister Mount
- 16 Large Storage Bin
- 17 Electric Elevator Module

CosyCot™ in NICU

Mobile Infant Warmer

Wherever warming is needed

Incorporating all the warming benefits of the CosyCot™ Infant Warmer, the Mobile Infant Warmer is designed for easy mobility and simple, safe height adjustment over a bed, bassinet or examination table - anywhere warming is needed.

Easy-to-Use

- While technologically advanced, we have kept the warmers simple and easy-to-use with one-touch controls.

Warming Without Delay

- The Prewarm Mode allows the warmer to be kept 'baby ready' without nuisance alarms. When needed the warmer provides safe, powerful and controlled warming to maintain the baby's temperature within the Thermal Neutral Zone.

Focused Heating

- The small heater makes it easier to work with the baby, by efficiently providing even heat distribution where needed and not into the surrounding environment.

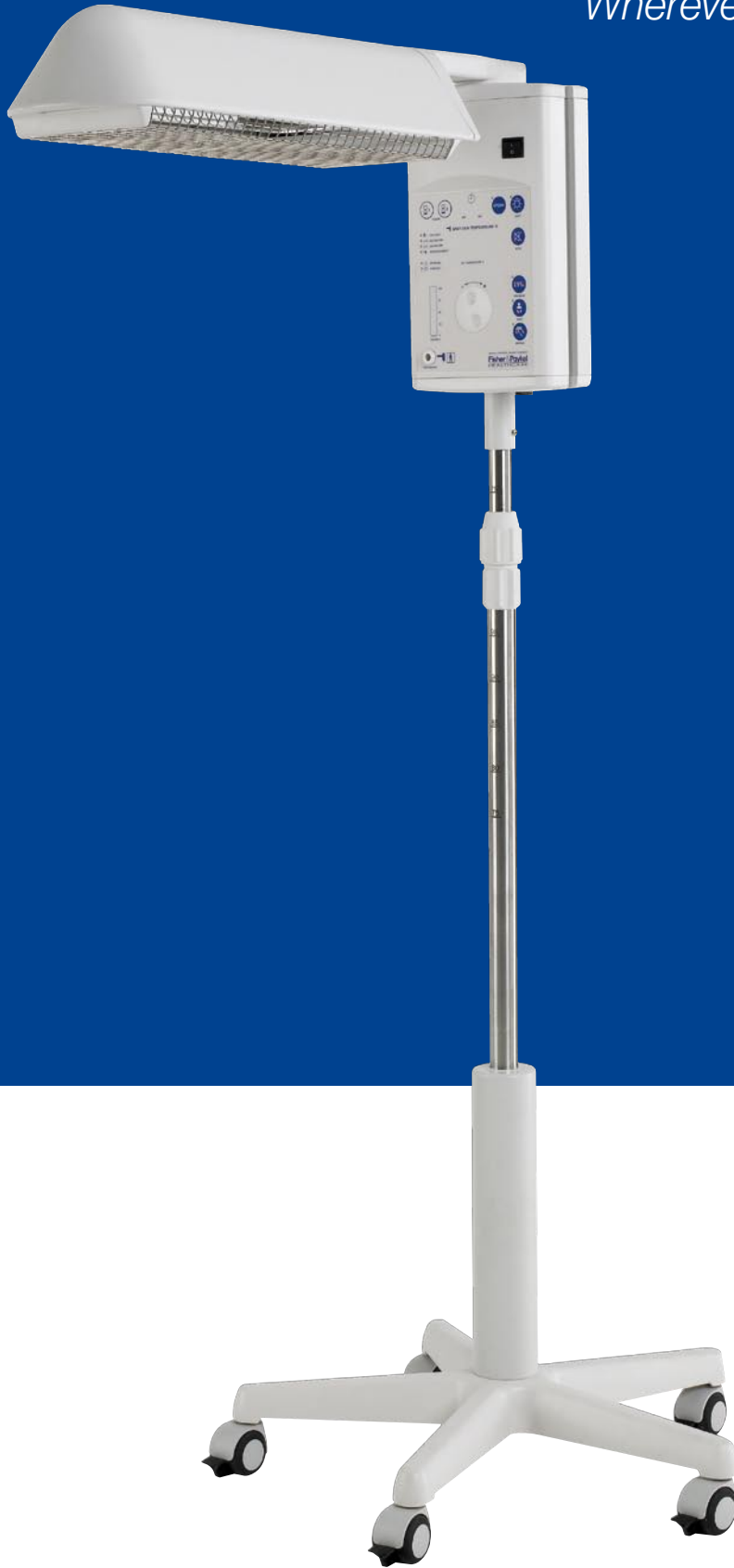
Lightweight and Mobile

- The compact wheelbase provides convenient maneuverability while continuing to provide safe, effective warming for the baby. The Neopuff™ Infant T-Piece Resuscitator can be conveniently mounted on the mobile pole for easy access during resuscitation.



Mobile Infant Warmer

Wherever warming is needed

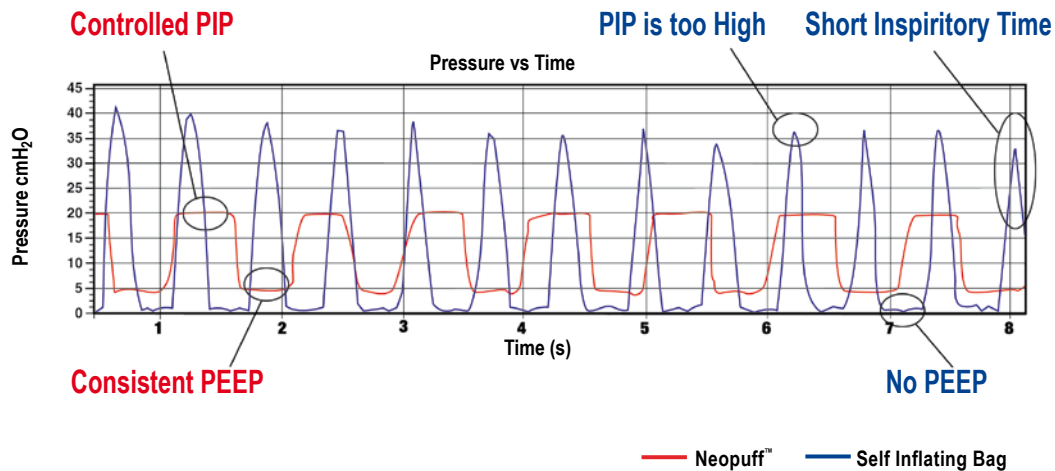


Mobile Infant Warmer

Neopuff™ Infant T-Piece Resuscitator

Wherever resuscitation is needed

The **Neopuff Infant T-Piece Resuscitator** is an easy-to-use, manually operated, gas-powered resuscitator that provides optimal resuscitation with a safe and controlled peak inspiratory pressure (PIP) and a consistent and precise positive-end expiratory pressure (PEEP).



Ref: Data from measurements using resus simulator, self-inflating bag and Neopuff by qualified resuscitator.



Set PIP



Set PEEP



Inspiratory time



Expiratory time

The Neopuff™ Infant T-Piece Resuscitator will safely inflate the baby's lungs and provide optimum oxygenation by delivering consistent PIP with each breath to avoid the risks associated with under or over inflation at uncontrolled pressures. A consistent and precise PEEP is maintained throughout the resuscitation process, maintaining functional residual capacity (FRC) and recruitment of alveoli which prevents lung collapse.

Easy-to-Use

- The experience, training and fatigue of the operator does not effect the delivered pressures.
- The Neopuff™ can accept and deliver oxygen concentrations from 21% to 100%.
- The patient T-piece can be attached to neonatal masks or endotracheal tubes.
- The fast acting manometer provides constant reassurance of mask seal and delivered PIP and PEEP.

Alternative Temporary Respiratory Support

- Consistent PEEP can be delivered to assist with breathing during transport or ventilator circuit changes.





Installed in CosyCot™ Infant Warmer

Neopuff™ Infant T-Piece Resuscitator

Wherever resuscitation is needed

- 1 Neopuff™ Infant T-Piece Resuscitator
- 2 Patient Supply Line
- 3 Patient T-Piece
- 4 Gas Supply Line
- 5 Infant Resuscitation Masks
- 6 Test Lung

Please refer to the product catalogue for part numbers and ordering options.



Fisher & Paykel Healthcare Infant Warmers

Product Specifications

IW930/950 CosyCot™ and IW910/920 Mobile

Electrical	Supply voltage	<ul style="list-style-type: none"> • 230 ± 20 VAC • 120 VAC • 100 ± 10 VAC
	Supply frequency	• 50/60 Hz
Irradiance	32 mW/cm ² at 100% power at 68 cm (26.8") heater grill to mattress distance	
Temperature Range	Set Temp from 34.5°C to 37.5°C in 0.1°C steps Displayed Temperature from 4.0°C to 50.0°C	
Temperature Alarm	±1°C from Set Temperature	
Heater Rotation	-130° to +130° from center position depends on installation	
Alarms	Baby Control	Manual Control
	<ul style="list-style-type: none"> • Check Baby • High/Low Temp • Sensor Disconnect • See Manual • Power Fail • Sensor Failure 	<ul style="list-style-type: none"> • Check Baby • See Manual • Power Fail • Sensor Failure
Certification	IEC 60601-2-21 IEC 60601-1 IEC 60601-1-2 UL 2601-1 AS 3200.1 CAN/CSA C22.2 No. 601.1 EN 60601-1 ISO 8382	

IW930/950 CosyCot™

Height	<ul style="list-style-type: none"> • Electric Elevator Module Adjustable from 170 to 186 cm (66.9"-73.2") • Preset Height Module 173.2 or 182.6 cm (68.2" or 71.9")
Width	77 cm (30.3") excluding shelves
Depth	110 to 129 cm (43.3" - 50.8") Depends on height and accessories
Weight without accessories	<ul style="list-style-type: none"> • Electric Elevator Module <ul style="list-style-type: none"> - 67 kg (147 lb) (from June 2008) - 60.8 kg (134 lb) (pre June 2008) • Preset Weight Module 58 kg (128 lb)
Heater Grill to Mattress	68 cm (26.8")
Mattress Height	<ul style="list-style-type: none"> • Electric Elevator Module 87.8 to 103.6 cm (34.6" - 40.8") • Preset Height Module 90.5 or 100.5 cm (35.6" or 39.6")
Bassinet Size	Standard: 65 x 65 cm (25.5" x 25.5") Long: 65 x 75 cm (25.5" x 29.5")
Bassinet Position	-10° to +10° continuous tilt
Castors	4 x Dual Wheel Locking Castors 10 cm (4")

IW910/920 Mobile Infant Warmer

Height	<ul style="list-style-type: none"> • Adjustable 151 to 191 cm (59.4" - 75.2") • For mattress heights 71 to 110 cm (28" - 43.3")
Width	65 cm (25.6")
Weight	22 kg (48.5 lb) excluding accessories
Castors	5 x Dual Wheel Locking Castors 5 cm (2")

Neopuff™ Infant T-Piece Resuscitator

Manometer Range	-20 to 80cm H ₂ O [mbar]
Maximum pressure relief*	@8LPM 5 to 70cm H ₂ O
Peak inspiratory pressure (PIP)*	@8LPM 4 to 73cm H ₂ O
Positive end-expiratory Pressure (PEEP)*	@8LPM 1 to 9cm H ₂ O
Gas inlet flow range	5LPM (min) to 15LPM (max) If the gas inlet flow rate increases from 5 to 15LPM, the peak inspiratory pressure typically increases approximately 8cm H ₂ O (0.8kPa)
Delivered oxygen concentration	Up to 100% depending on gas supply

Operating time* 400L cylinder	@8LPM 50 minutes
Height	250mm (9.8")
Width	200mm (7.9")
Depth	100mm (3.9")
Weight	1.9kg (4.2lb)
Recommended body weight	Up to 10kg (22lb)
Operating and storage limits	-20°C to 50°C Up to 90% relative humidity
Standard	ISO10651-5

*Typical values

For full product specifications please refer to your Technical Manual or contact your Fisher & Paykel Healthcare Supplier.

Accessories Shown

The accessories shown are intended only to illustrate a typical configuration.

The Fisher & Paykel Healthcare Infant Warmers and accessories can be customized to suit your requirements.

Ordering Information

The Fisher & Paykel Healthcare Infant Warmers and accessories are available separately or as a complete system.

Please refer to our product catalogue or contact your local Fisher & Paykel Healthcare supplier for further information and assistance. Fisher & Paykel Healthcare have a policy of continuous product improvement and reserve the right to alter specifications without notice.

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Neonatal
GROUP

Fisher & Paykel
HEALTHCARE

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