

LifeStart™

Neonatal bedside resuscitation unit



For those who need it most,
transitional support with the
cord intact



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In the first few moments of life there can be a real dilemma for clinical staff. Despite the clear evidence outlining the benefits of Optimal Cord Clamping, most guidelines state that priority should be given to resuscitation of the infant.

The LifeStart™ eliminates this dilemma. Designed with input from experienced paediatricians, midwives and obstetricians, its compact design allows the LifeStart™ to be easily positioned close to the mother, enabling the infant's airway to be supported on a warm platform whilst leaving the umbilical cord intact. This helps to facilitate improved placental transfusion and smoother cardiovascular transition, providing the best starting life for the baby^{1,2}.



Built-in timer audio alerts a single, double and triple beep at 1, 2 and 3 minutes respectively, indicating the time passed with the umbilical cord intact.



A simple to use AlphaCore⁵ Patient Warming System provides a warm platform to maintain the infant's core temperature.



The Inspire rPAP™ system works in conjunction with LifeStart™ to provide the lowest imposed work of breathing resuscitation and stabilisation device⁵.

Providing optimal care to the baby within close proximity to the mother and birth partner, allows family members to stay together for mutual comfort, without having to be separated from their baby during this worrying procedure³. It can also enhance communication between the mother, birth partner and clinician, giving reassurance that their baby is receiving the best possible care³.

LifeStart™ not only facilitates the best treatment for the baby but also helps bring some normality to birth at a stressful time for families.

Unmatched versatility

The LifeStart™ brings together all the necessary equipment required to the bedside on a compact platform that can be adjusted in height to suit most types of delivery, including natural birth and C-section.

Suctioning*

Low flow venturi suction can be supplied as an optional accessory to mount on the LifeStart™.

LifeStart™ Timer

Built-in timer audio alerts a single, double and triple beep at 1, 2 and 3 minutes respectively to indicate how much time has passed with the umbilical cord still intact, without having to visually check the display.

Blender/Flowmeter*

Air/oxygen blender and flowmeter can be supplied as an optional accessory to mount on the LifeStart™.

AlphaCore⁵ Patient Warming System*

Optional accessory combines a LifeStart™ mattress with a simple to use AlphaCore⁵ Controller to assist in maintaining the infant's core temperature during resuscitation.

Cylinder Holder

Stores Air and Oxygen cylinders for safe manoeuvrability.

Inspire rPAP™ System*

Optional accessory comprising of an rPAP™ Generator and dedicated rPAP™ Driver that work in conjunction to create an effective, gentle approach to resuscitation and stabilisation.



*Note: Not all accessories are available in all markets. Please contact your local Inspiration Healthcare representative for more information.

LifeStart™ perfect transitional care

Building on the standard of care provided by traditional resuscitation units, the LifeStart™ is able to be positioned close to the mother to facilitate Optimal Cord Clamping whilst providing a gentler approach to airway support and effective hypothermia management.



Placental Transfusion

Immediate cord clamping reduces placental transfusion and potentially deprives a term baby of 20-30mg/kg of iron: sufficient for a newborn baby for around three months². The LifeStart™ can be easily positioned close to mum to aid placental transfusion with the cord intact.



Cardiovascular Transition

Initial stabilisation of the airway during placental transfusion is thought to improve cardiovascular transition¹. The LifeStart™ can be configured with all the necessary equipment to manage the infant's airway effectively, whilst the cord remains intact.



Family Centred Care

Resuscitation of newborns is a stressful experience for parents. Bedside resuscitation allows family members to stay together for mutual comfort, without having to be separated from their baby during this worrying procedure.



Airway Support

The Medirails on the LifeStart™ enable the addition of a resuscitation device, such as the Inspire rPAP™.

Inspire rPAP™ is a non-invasive system for the stabilisation and resuscitation of infants. The system reduces the imposed work of breathing by up to 92%⁵, ensuring the infant doesn't tire so quickly.



Effective Hypothermia Management

Neonatal Hypothermia is a global issue and an important factor in morbidity and mortality of all birthweights and gestational ages⁴.

The LifeStart™ has the option to be fitted with the AlphaCore⁵ Patient Warming System to assist in maintaining core temperature during resuscitation.

For the best start

LifeStart™ is a versatile bedside resuscitation unit, designed to accommodate all the equipment needed to provide babies the best start in life.

Optimal

- Facilitates Optimal Cord Clamping to improve placental transfusion²
- Provides stabilisation using optional Inspire rPAP™ system to enable smooth cardiovascular transition¹
- Aids effective hypothermia management with optional AlphaCore⁵ Patient Warming System

Stable

- Compact platform on lockable casters for easy positioning
- Adjustable height to suit most types of delivery
- Air and Oxygen cylinder holders for safe manoeuvrability

Supportive

- Ergonomic design enables mother, birth partner and baby to stay close throughout treatment
- Provides comfort and maintains valuable bond between mother and baby
- Enhances communication between clinical team and parents³



Ordering Information, Technical Description and Specifications

LifeStart™*		Dimensions	Footprint 65cm x 64cm
LifeStart™ (110V)	LSU003		Overall height 79cm
LifeStart™ (230V)	LSU003a		(lowest position from floor level)
AlphaCore⁵ Controller*		Weight	30kg
AlphaCore ⁵ Controller	IHC-1000	Maximum patient load	10kg
Neonatal Mattress*		Maximum additional equipment load	15kg
Neonatal Mattress for LifeStart™	IHC-NCM9	Power supply	200 VA~ 50/60 Hz
Accessories*		Input voltage	230 V~ or 110 V~
Injector Suction Unit (Low Suction)	LSA001	Adjustment	Resuscitation platform height range from 70cm to 120cm from floor level
Suction Jar, Serres type (requires LSA005/6/7)	LSA004	Timer	Audio alerts at 1, 2 & 3 minutes
Rail Mount for Serres Suction Jar	LSA005		Battery operated using 4 × AA size 1.5 V alkaline cells (not supplied)
Suction liner, disposable, 1000ml (Case of 20)	LSA006		
Suction tube, catheter connection, 1.8m (Case of 20)	LSA007		
Low Pressure Tubing - Yellow (1.0m length)	LSA008		
Inspire rPAP™ Arm	LSA011		
Blender, Low Flow, with flowmeter (LH), NIST	LSA020		
Rail mount for blender	LSA021		
Inspire rPAP™ Generator & Resuscitation Circuit (Case of 20)	IHC700/20		
Inspire rPAP™ Driver (Case of 3)	IHC805/3		
LifeStart™ Drape (Case of 20)	LSA106		

References

1. Winter J. et al (2017) Ventilation of Preterm Infants during Delayed Cord Clamping (VentFirst): A Pilot Study of Feasibility and Safety. Am J Perinatol.
2. (2015) Clamping of the Umbilical Cord and Placental Transfusion, Royal College of Obstetricians & Gynaecologists (RCOG), <https://www.rcog.org.uk/globalassets/documents/guidelines/scientific-impact-papers/sip-14.pdf>
3. Sawyer, A. et al (2015) Providing immediate neonatal care and resuscitation at birth beside the mother: parents' views, a qualitative study. British Medical Journal.
4. McCall, E. M. et al (2008) Interventions to prevent hypothermia at birth in preterm and/or low birthweight infants. The Cochrane Collaboration.
5. Donaldsson, S. et al (2016) Initial Stabilisation Of Preterm Infants: A New Resuscitation System With Low Imposed Work of Breathing For Use With Face Mask or Nasal Prongs. Arch Dis Child Fetal Neonatal Ed 2016.

*Note: Not all accessories are available in all markets. Please contact your local Inspiration Healthcare representative for more information. The details given in this brochure are correct at time of going to press. The company reserves the right to improve the products shown.

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