



One baby. One bed.

A gentle journey

Every newborn deserves a gentle journey from the labor and delivery room to the NICU. And thanks to the Giraffe™ Shuttle™ with Giraffe beds and Panda™ Warmers*, they can. One bed—at all times—anywhere in the hospital—such as the OR or NICU. The Giraffe Shuttle provides convenience for babies via uninterrupted care during transfer.

Say goodbye to bed transfers

A big move forward in intra-hospital transport, the Giraffe Shuttle makes your care consistent. It provides an uninterrupted intra-hospital journey while also providing a warm, stable environment for newborns, ensuring a gentle transition from mom.



Take comfort in continuity

Continuity is critical when it comes to intra-hospital transport. In fact, it's recommended that every neonatal unit have temperature protocols in place¹ to keep care at the same standard as in the NICU^{1,2,3}. The Giraffe Shuttle satisfies these needs, providing continuous patient management without interrupting critical points of treatment like IV medications and monitoring.

More than just convenient. It's clinically proven.

- ✔ **Reduces infant stress**
The Giraffe Shuttle, in tandem with Giraffe beds or Panda Warmers^{*}, eliminates bed-to-bed transitions. And fewer transitions mean less stress on the baby—because it helps them maintain more stable thermal regulation and physiologic stability⁴.
- ✔ **Improves clinical outcomes by at least 15%**
Using the Giraffe Shuttle and bed in concert with accessories can improve clinical outcomes like body temperature, ventilator use, chronic lung disease, weight stabilization, and more⁵.
- ✔ **Reduces cold stress and hypothermia**
With higher average temperatures than conventional transport incubators—you no longer need to choose between the negative effects of bed transfers or the risk of cold stress or hypothermia⁶.

Temperature matters

Morbidity and mortality rates related to neonatal transport are directly correlated to the drop in temperature. Because body temperature and physiologic stability of the infant can be compromised during the transport period, it's important especially in the care of ELGAN, to keep bed transfers to a minimum. Using the Giraffe OmniBed and Shuttle resulted in an average temperature of 0.49°C higher than infants transported with conventional transport incubators⁵.

Safer transport means a better bottom line

Because traditional intra-hospital transport methods may be costing more than you think.



Low temperature
Bed transfers contribute to lower admission temperatures^{7,8}



Infection
Lower admission temperatures contribute to higher infection rates⁹



Costs
Infection treatment leads to higher costs¹⁰

For every 1° C decrease in temperature there is an increase of 28% in mortality^{7,8,10} and an 11% increase in sepsis¹⁰



Power is on standby. Always.

Breathe easier knowing you've got power on the go with the Giraffe Shuttle. A convenient accessory for GE Healthcare Giraffe beds and Panda Warmers^{*}, it gives you auxiliary power that lasts for up to 45 minutes and can power up to four devices. This lets you keep newborns warm, comfortable and undisturbed during transport throughout the hospital.



Options are built right in.

The Giraffe Shuttle is designed to give you flexibility. Accessorize it with the practical and critical auxiliary tools you need—for even more control at your fingertips.

Take a closer look

at the Giraffe Shuttle

Input power requirements

VAC Voltage	Frequency in (Hz ± 3Hz)	Max. Current (Amperes)
115 ± 10%	50	12
	60	
220~240 ± 10%	50	9
	60	

Environmental requirements

Shipping temperature	-25°C to +38°C (stackable packaging) -25°C to +40°C (nonstackable packaging)
Shipping relative humidity	0 to 85% RH (noncondensing)
Storage temperature	-25°C to +40°C
Storage relative humidity	5% to 85% (noncondensing)
Storage condition	is considered after the packaging material has been removed
Operating temperature	+18°C to +30°C
Operating relative humidity	5% to 95% (noncondensing)
Operating pressure	106 to 70 kPa (sea level to 3048 m)

Giraffe Shuttle output power

The maximum power output of the Giraffe Shuttle is 775 VA.

VAC Voltage	Frequency in (Hz ± 3Hz)
115 ± 5%	50
	60
230 ± 5%	50
	60

While operating off wall power, input voltage and frequency is passed through the Giraffe Shuttle. No power conditioning occurs. The Giraffe Shuttle will generate AC power only if the AC main voltage drops below 50% of the input voltage.

Estimated battery life^a

Typical use scenario and power loads	Giraffe Shuttle output power (VA)	Runtime (min)	Cycles ^b
Giraffe Warmer or Panda Warmer at 60% heater power, pre-warmed using hospital wall outlet.	250	45	>365
Giraffe Incubator Carestation™ or Giraffe OmniBed Carestation™ (closed), pre-warmed to 37°C.	350	45	>365
Giraffe OmniBed Carestation (open) at 60% heater power, pre-warmed using hospital wall outlet.			
Normal load condition—the bed ^c is pre-warmed prior to connecting to the Giraffe Shuttle and with accessories (150 VA).	400–500	45	>365
Heavy load condition—the bed is NOT pre-warmed prior to connecting to the Giraffe Shuttle and with accessories (150 VA).	500–775	45	>125

Battery specifications

12 Volt, 20 Ah, valve-regulated, sealed (nonspillable), lead acid battery quantity 4, connected in series

Mechanical specifications

Height: 1367 mm Width: 638 mm
Length: 890 mm Weight: 126 kg

Standards

IEC 60601-1
IEC 60601-1-2
ANSI/AAMI ES6060-1
CAN/CSA-22.2. No. 60601-1



Footnotes

* Incubators and warmers compatible with the Giraffe Shuttle include: Giraffe OmniBed Carestation, Giraffe Incubator Carestation, Giraffe Warmer, Panda Warmer, Giraffe Incubator and Giraffe OmniBed

** The Giraffe Shuttle is not intended for use outside of the hospital building or in any area where fluctuation in temperature, exposure to water, or other hazards may occur.

- 1 <https://www.sciencedirect.com/topics/medicine-and-dentistry/neonatal-transport> - W. Alan Hodson, in Avery's Diseases of the Newborn (Tenth Edition), 2018
 - 2 <http://ccn.aacnjournals.org/content/30/4/18.full>. Are you satisfied with your outcomes? Or do you feel they can be better?
 - 3 <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4966347/>
 - 4 M. Gaylord, L. Mefford, J. Stafano, K. Leef, L. Lynam. "An Evaluation of a New Device in Maintaining Thermal and Physiological Homeostasis in Human Newborns". NANN, 2001
 - 5 Kim SM et al. Improved care and growth outcomes by using hybrid humidified incubators in very preterm infant. *Pediatrics* 125(1), 137-145, 2010
 - 6 F. Loersch, M Schindler, K. Starr of GE Healthcare, J. Moore, L Lynam Bayne. "Risk Factors for intra-hospital transport of newborn patients: A new solution to an old problem". *Journal of Neonatal Nursing* (2011) 17, 203-214
 - 7 Nedrelow J, Bloom BT, and Clark RH. Admission temperature is an independent predictor of survival for infants born between 24-29 weeks gestation. *Pediatric Academic Society Meeting*, 5/7/2007, E-PAS2007:617934.25.
 - 8 Bhatt DH, Carlos CG, Parikh AN, White R, Seri I, and Ramanathan R. Prevalence of transitional hypothermia in newborn infants on admission to newborn intensive care units. *Pediatric Academic Society Meeting*, 5/7/2007, E-PAS2007:617933.23. • From 24 to 29 weeks...temperature had an independent effect on survival. For each degree change there was an increase in survival by approximately 10%.
 - 9 Laptook AR, Salhab W, Bhaskar B and Neonatal Research Network. Admission temperature of low birthweight infants: Predictors and associated morbidities. *Pediatrics* 2007; 119:e643-e649. • Admission temperature was inversely related to...late-onset sepsis (11% increase per 1°C decrease)
 - 10 Payne et al , 2004. Marginal Increase in Cost and Excess Length of Stay Associated With Nosocomial Bloodstream Infections in Surviving Very Low Birth Weight Infants, *Pediatrics*, Vol 114, No2 • Nosocomial Infections have the greatest impact on overall cost.
- a Batteries are a fixed life storage device. As such, the use and care of the batteries will greatly affect battery life. Heavy loads and long run times will drastically reduce the life of the batteries. Refer to the product labeling for additional information
 - b A cycle is a 45 minute runtime for a Giraffe Shuttle used with a pre-heated bed and accessories (total of 500VA, normal load condition)
 - c The bed – Giraffe OmniBed Carestation, Giraffe Incubator Carestation, Giraffe Warmer, Panda Warmer

Imagination at work

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