

CITY OF NOVI CITY COUNCIL SEPTEMBER 9, 2022

SUBJECT: Consideration of approval to purchase one (1) Lucas 3 chest compresssion system for the Novi Fire Department from Stryker, an authorized sole sourced dealer, in the amount of \$16,060.06.

Submitting department: Public Safety- Fire Department

Department of Public Work-Fleet Division

EXPENDITURE REQUIRED	\$ 16,060.06
AMOUNT BUDGETED	\$ 890,004
APPROPRIATION REQUIRED	\$0
LINE ITEM NUMBER	400-337.00-979.004- FIR017 Engine (replace 342)

BACKGROUND INFORMATION:

The Novi Fire Department is requesting to purchase one Lucas 3 Chest Compression System. This equipment was budgeted with the 2022 Stuphen Fire Truck, which was approved on July 26, 2021 City Council meeting. The chest compression system's price is set to increase 9% in October, therefore, staff is requesting the purchase now for cost savings. It will be placed on the Ambulance 1 for use until the new 2022 Sutphen Fire Truck is estimated to be delivered July 2023.

The equipment assists on all cardiac arrest calls for service. The Lucas 3 Chest Compression System is a full automatic compression unit to assist police, fire, and EMS personnel with high quality compressions during a cardiac arrest. Being the system is fully automatic, will help reduce personnel fatigue from providing compressions on a cardiac arrest and create high quality compression for the duration of the call for service. This is the same unit as our partners at Superior EMS currently utilize on their advanced life support ambulances. Keeping with the same unit will help streamline training for all of our personnel.

It will be purchased as a sole source item, utilizing the Wayne County Bulk Buy quote that holds the only five (5) year warranty for the Lucas 3 chest compresssion system.

RECOMMENDED ACTION: Approval to purchase one (1) Lucas 3 chest compresssion system for the Novi Fire Department from Stryker, an authorized sole sourced dealer, in the amount of \$16,060.06.

stryker

LUCAS

Quote Number: 10538024 Remit to: Stryker Medical

P.O. Box 93308

Version:

Chicago, IL 60673-3308

CITY OF NOVI Prepared For: Rep: Jamie Smith

> Attn: Email: jamie.smith@stryker.com

> > Phone Number:

Mobile: (269) 303-1257

Quote Date: 06/01/2022 Expiration Date: 08/30/2022

Delivery Address		End User -	End User - Shipping - Billing		Bill To Account		
Name:	CITY OF NOVI	Name:	CITY OF NOVI	Name:	CITY OF NOVI		
Account #:	1281638	Account #:	1281638	Account #:	1281637		
Address:	42975 GRAND RIVER AVE	Address:	42975 GRAND RIVER AVE	Address:	45175 TEN MILE RD		
	NOVI		NOVI		NOVI		
	Michigan 48375-1731		Michigan 48375-1731		Michigan 48375-3006		

Equipment Products:

#	Product	Description	Qty	Sell Price	Total
1.0	99576-000063	LUCAS 3, v3.1 Chest Compression System, Includes Hard Shell Case, Slim Back Plate, (2) Patient Straps, (1) Stabilization Strap, (2) Suction Cups, (1) Rechargeable Battery and Instructions for use With Each Device	1	\$13,529.26	\$13,529.26
2.0	11576-000060	LUCAS Desk-Top Battery Charger	1	\$1,003.96	\$1,003.96
3.0	11576-000071	LUCAS External Power Supply	1	\$317.68	\$317.68
4.0	11576-000080	LUCAS 3 Battery - Dark Grey - Rechargeable LiPo	1	\$614.08	\$614.08
5.0	11576-000047	LUCAS Disposable Suction Cup (12 pack)	1	\$427.12	\$427.12
6.0	11576-000050	LUCAS Patient Wrist Straps (1 Pair)	1	\$88.92	\$88.92
7.0	21576-000074	LUCAS Stabilization Strap	1	\$79.04	\$79.04
			Equipr	ment Total:	\$16,060.06

ProCare Products:

#	Product	Description	Years	Qty	Sell Price	Total
8.1	78000703	ProCare LUCAS Prevent Service: Annual onsite preventive maintenance inspection and unlimited repairs including parts, labor and travel with battery coverage for LUCAS 3, v3.1 Chest Compression System, Includes Hard Shell Case, Slim Back Plate, (2) Patient Straps, (1) Stabilization Strap, (2) Suction Cups, (1) Rechargeable Battery and Instructions for use With Each Device	4	1	\$5,106.80	\$5,106.80
			Pi	oCare T	ōtal:	\$5,106.80

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Price Totals:

Estimated Sales Tax (0.000%): \$0.00 Freight/Shipping: \$177.39 Grand Total: \$21,344.25

Prices: In effect for 30 days

Terms: Net 30 Days

Contact your local Sales Representative for more information about our flexible payment options.

Capital Terms and Conditions:

Deal Consummation: This is a quote and not a commitment. This quote is subject to final credit, pricing, and documentation approval. Legal documentation must be signed before your equipment can be delivered. Documentation will be provided upon completion of our review process and your selection of a payment schedule. Confidentiality Notice: Recipient will not disclose to any third party the terms of this quote or any other information, including any pricing or discounts, offered to be provided by Stryker to Recipient in connection with this quote, without Stryker's prior written approval, except as may be requested by law or by lawful order of any applicable government agency. A copy of Stryker Medical's Acute Care capital terms and conditions can be found at https://techweb.stryker.com/Terms_Conditions/index.html. A copy of Stryker Medical's Emergency Care capital terms and conditions can be found at https://www.strykeremergencycare.com/terms.



Meet the LUCAS® 3 Chest Compression System



LUCAS System

Smart. Hardworking. Built for the future.

The LUCAS chest compression system has been helping lifesaving teams around the world deliver high-quality, Guidelines-consistent compressions; in the field, on the move and in the hospital.

With over 12 years of clinical experience, we proudly present the third generation LUCAS device, built on the LUCAS legacy. The LUCAS 3 chest compression system has improved features to facilitate maintenance and handling and allows for new insights through easy, wireless access to device data.



LUCAS Case

Strong. Smart. Modern.



Hard Shell Case

- Polycarbonate
- Easy to clean
- Reflective badging
- Large multi-point handles
- Large zipper grips
- Adjustable backpack straps



Molded Design

- Compact, portable and durable
- Protected and organised inside
- Smart storage compartment of accessories (batteries, straps, suction cups)
- Can also be used with the LUCAS 2 device



Top Window

• Quick check of battery status (press MUTE button)



Charge Port (on back of hard shell case)

• Charge the device without removing from the case

LUCAS Slim Back Plate

Simple. Skinny.



Single Piece

- ~50% slimmer
- Easy to clean
- Tapered edge for easier adjustment
- Larger contact area for stability
- Additional attach points for transportation
- Can also be used also with LUCAS 2 devices







Cath Lab/Fluoroscopy

- Allows for emergency angiography/ angioplasty during ongoing LUCAS CPR
- Vague grid shadows in oblique views (see angiogram)
- For optimal performance; use PCI back plate (available separately)

LUCAS Device Connectivity

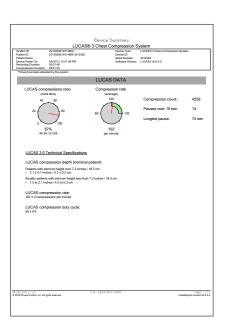
Connected. Insights.

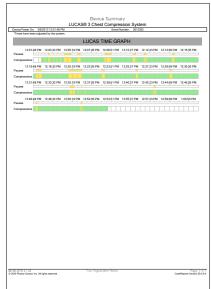
Data-Enabled

- · Post-event performance reports for review
- Bluetooth® connectivity
- Easy to pair with PC/Windows®
- LUCAS Report Generator software

LUCAS Report Generator

- LUCAS chest compression statistics, pauses, user modes and device alarms and alerts
- Review LUCAS device performance data at the end of the case or shift
- Device summary, timeline and event log





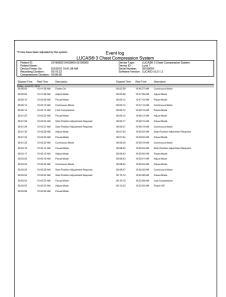
Device Summary Time

- Quick glance dials of ratio and rate
- Compression and pause data

Time Graph

- Timeline from first LUCAS device compression to last
- Pauses automatically highlighted





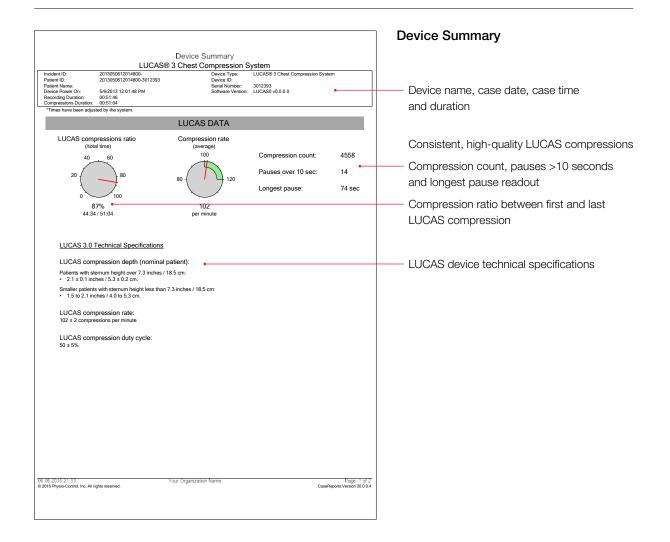
Event Log

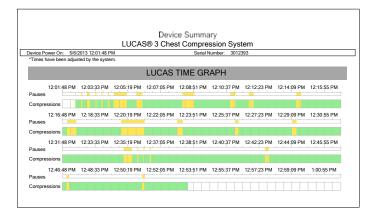
 Insight into user interaction, device operational mode, battery information and any alarms



LUCAS Device Report

Connected. Insights.





Time Graph

- Time Axis
- Pauses (automatic by device or user initiated)
- Compressions (device only)

Specifications

Compressions

Compression Frequency: 102 ± 2 compressions per minute

Compression depth (nominal patient):

- 2.1± 0.1 inches / 53±2 mm for patients with sternum height greater than 7.3 inches / 185 mm
- 1.5 to 2.1 inches / 40 to 53 mm for patients with sternum height less than 7.3 inches / 185 mm

Compression/Decompression Duty Cycle: 50 ± 5%

Patients Eligible for Treatment:

- 6.7 to 11.9 inches / 17.0 to 30.3 cm sternum height (anterior – posterior)
- 17.7 inches / 44.9 cm chest width

The use of the LUCAS device is not restricted by patient weight.

Device specifications

Height x Width x Depth (assembled): $22.0 \times 20.5 \times 9.4$ inches $/ 56 \times 52 \times 24$ cm

Height x Width x Depth (stowed in backpack): $22.8 \times 13.0 \times 10.2$ inches / $58 \times 33 \times 26$ cm

Weight device with battery (no straps): 17.7 lbs / 8.0 kg

Device storage temperature: -4°F to +158°F / -20°C to +70°C

Device IP Classification: IP43

Operation

Power Source: Battery – Rechargeable Lithium-ion Polymer (LiPo), and (optional) external power supply or car cable

Battery run time (typical): 45 minutes (typical), prolonged operation time with (optional) external power supply or car power cable

External Power supply: 100-240VAC, 50/60Hz, 2.3A, Class II, Output 24VDC, 4.2A

Car Power Cable: Voltage / Current 10-28VDC / 0-10A

Operating temperature:

- +32°F to +104°F / +0°C to +40°C
- -4°F / -20°C for 1 hour after storage at room temperature

Battery specifications

Battery charge time:

Charged in the device using external power supply:

• Less than two hours at room temperature (+72°F/+22°C)

Charged in the external battery charger:

• Less than four hours at room temperature (+72°F/+22°C)

Battery weight: 1.3 lbs / 0.6 kg

Battery capacity: 3300 mAh (typical), 86 Wh

Battery voltage: 25.9 V

Interval for replacement of battery: recommendation to replace battery every 3 to 4 years or after 200 uses (of more than 10 minutes each time)

Battery charge temperature: $+32^{\circ}F$ to $+104^{\circ}F$ / $+0^{\circ}C$ to $+40^{\circ}C$ ($+68^{\circ}F$ to $+77^{\circ}F$ / $+20^{\circ}C$ to $+25^{\circ}C$ preferred)

Battery storage temperature: $+32^{\circ}F$ to $+104^{\circ}F$ / $0^{\circ}C$ to $+40^{\circ}C$ ($-4^{\circ}F$ to $+158^{\circ}F$ / $-20^{\circ}C$ to $+70^{\circ}C$ ambient for less than a month)

Battery IP Classification: IP44

Data transmission post-event

Radio module: Bluetooth® v2.1 + EDR Class 1 - up to 3Mbps, Modulation method; 8DPSK, π/4 DQPSK, GFSKFSK, Operating channel; BT 2.4GHz: Ch. 0 to 78, Frequency range; 2.4000 to 2.4835 GHz, Radio frequency; Output Power (Bluetooth) Max + 10dBm

The LUCAS 3 device is for use as an adjunct to manual CPR when effective manual CPR is not possible (e.g., transport, extended CPR, fatigue, insufficient personnel).

For further information, please contact Physio-Control at 800.442.1142 (U.S.), 800.895.5896 (Canada) or visit our website at www.physio-control.com



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