



LivaNova

Advanced Circulatory Support

Life Support Simplified

FOR MORE PATIENTS IN MORE PLACES



24/7 Clinical Support 800 373 1607
Customer Service 800 373 7421
LifeSPARC.com

SMALL DEVICE

BIG POTENTIAL

LifeSPARC

Life Support Simplified



Get to know the LifeSPARC Pump and Controller:

- ✓ Prime in minutes
- ✓ Detachable from docking station for streamlined transportation
- ✓ Complemented by four specialized procedure kits that support a variety of cannulation strategies



Scan the code to visit the Digital Resource Library for access to more in-depth information, educational videos, and downloadable guides.

acs.livanova.com/digitalresourceclibrary

EXTRACORPOREAL LIFE SUPPORT

TANDEM^{LIFE} VA ECLS

Enables rapid patient stabilization during cardiac or respiratory emergencies.



TANDEM^{LUNG} VV ECLS

Combines the benefits of the ProtekDuo Cannula with the sterile priming tray.



MECHANICAL CIRCULATORY SUPPORT

PROTEK^{DUO} RA-PA BYPASS

Has the versatility for patient needs with RA-PA Bypass via single venous access at the RIJ and optional oxygenation.



TANDEM^{HEART} LA-FA BYPASS

Provides a steady supply of oxygenated blood while decompressing the left ventricle to ease the heart's workload.



More power in the palm of your hand



The LifeSPARC Pump: designed for power and simplicity

The LifeSPARC Pump has the power to treat a variety of conditions and the simplicity to set up anywhere. The device simplifies ECMO to ensure that hospitals of all sizes can access a high level of life support.

- ✓ Non-pulsatile centrifugal pump with a magnetic pivot bearing
- ✓ "Plug and play" design simplifies priming down to minutes
- ✓ Up to 5 L/m flow percutaneous, up to 8 L/m flow surgical



Unbox a better solution

THINK INSIDE THE BOX



SCAN THE CODE

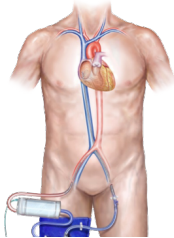
Learn how to prime the
circuit in **under 4 minutes**

TANDEM LIFE

Speed and Simplicity



- ✓ Quick, repeatable priming for easy support initiation with pre-connected pump and oxygenator stored in sterile basin
- ✓ Reduces the amount of equipment needed
- ✓ Deployable in diverse hospital settings—available for more patients in more places



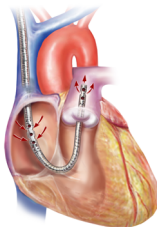
ECLS

TANDEM LUNG

Respiratory Support, Reinvented

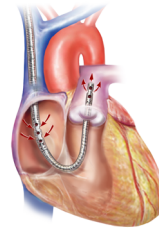


- ✓ Removes barriers to adopting emergent veno-venous cardiopulmonary bypass as a new standard of care
- ✓ Advanced respiratory care and mobility without traditional circuit complexity
- ✓ TandemLung Oxygenator's patented radial flow tech reduces flow resistance, allowing lungs to rest and recover



PROTEKDUO

The Original RA-PA Bypass Cannula



- ✓ One of a kind cannulation allows for easy percutaneous, single venous access at the right internal jugular vein
- ✓ RIJ cannulation enables Protek Duo kit use with optional VoyagerVest for the first and only wearable ECLS circuit

MCS

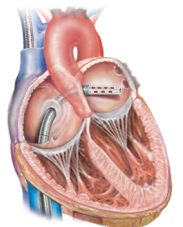
TANDEM HEART

The Power to Recover



Only TandemHeart provides a steady supply of oxygenated blood while decompressing the left ventricle to reduce the heart's workload.

- ✓ Powerful pump for end organ perfusion
- ✓ Transseptal cannulation of the left atrium to decompress and rest the left ventricle, providing up to 90% unloading
- ✓ Decreased myocardial oxygen demand for potential recovery



Indications for Use:

LifeSPARC System

- **Extracorporeal Membrane Oxygenation:** The LifeSPARC System is a centrifugal blood pump system intended to assist in circulation of the patient's blood when part of an extracorporeal circuit including physiologic gas exchange of the patient's blood in adult patients with acute respiratory failure or acute cardiopulmonary failure, where other available treatment options have failed, and continued clinical deterioration is expected or the risk of death is imminent. These may include:
 - Failure to wean from cardiopulmonary bypass following cardiac surgery in adult patients
 - ECMO-assisted cardiopulmonary resuscitation in adults
- **Cardiopulmonary Bypass Support:** The LifeSPARC System is intended to pump the blood through an extracorporeal circuit for periods lasting less than 6 hours for the purpose of providing either: (i) Full or partial cardiopulmonary bypass (i.e., circuit includes an oxygenator) during open surgical procedures on the heart or great vessels; or (ii) Temporary circulatory bypass for diversion of flow around a planned disruption of the circulatory pathway necessary for open surgical procedures on the aorta or vena cava.

TandemLung Oxygenator: The TandemLung Oxygenator (TLO) is intended to be used for adult patients for extracorporeal circulation during cardiopulmonary bypass in the field of open-heart surgery. Within the indicated flow rates blood is oxygenated and carbon dioxide is removed. The utilization period of this device is restricted to six hours.

ProtekSolo 62 and 72 cm Transseptal Cannulae:

The Transseptal Cannula Set-EF is intended for transseptal catheterization of the left atrium via the femoral vein for the purpose of providing a means for temporary (six hours or less) left ventricular bypass when connected to the TandemHeart extracorporeal blood pump, which returns blood to the patient via the femoral artery or other appropriate site.

ProtekSolo Venous Cannula: The Venous Cannula is intended to cannulate vessels, perfuse vessels or organs and/or connect with accessory extracorporeal circulatory support equipment. The introducer is intended to facilitate proper insertion and placement of the cannula within the vessel for extracorporeal circulatory support. These devices are to be used by a trained physician only.

ProtekSolo 15 and 17 Fr Arterial Cannulae: These devices are to be used by a trained physician only. Cannulae are used to cannulate vessels, perfuse vessels or organs and/or connect with accessory extracorporeal circulatory support equipment for a duration of six hours or less. The Cannula Introducer is intended to facilitate proper insertion and placement of the Cannula within the vessel for extracorporeal circulatory support.

ProtekDuo 29 and 31 Fr and ProtekDuo RD 31 Fr

Veno-Venous Cannulae: The ProtekDuo Veno-Venous Cannula Set is intended for use as a single cannula for both venous drainage and reinfusion of blood via an internal jugular vein during extracorporeal life support procedures.

LivaNova USA | Manufactured by CardiacAssist, Inc |

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