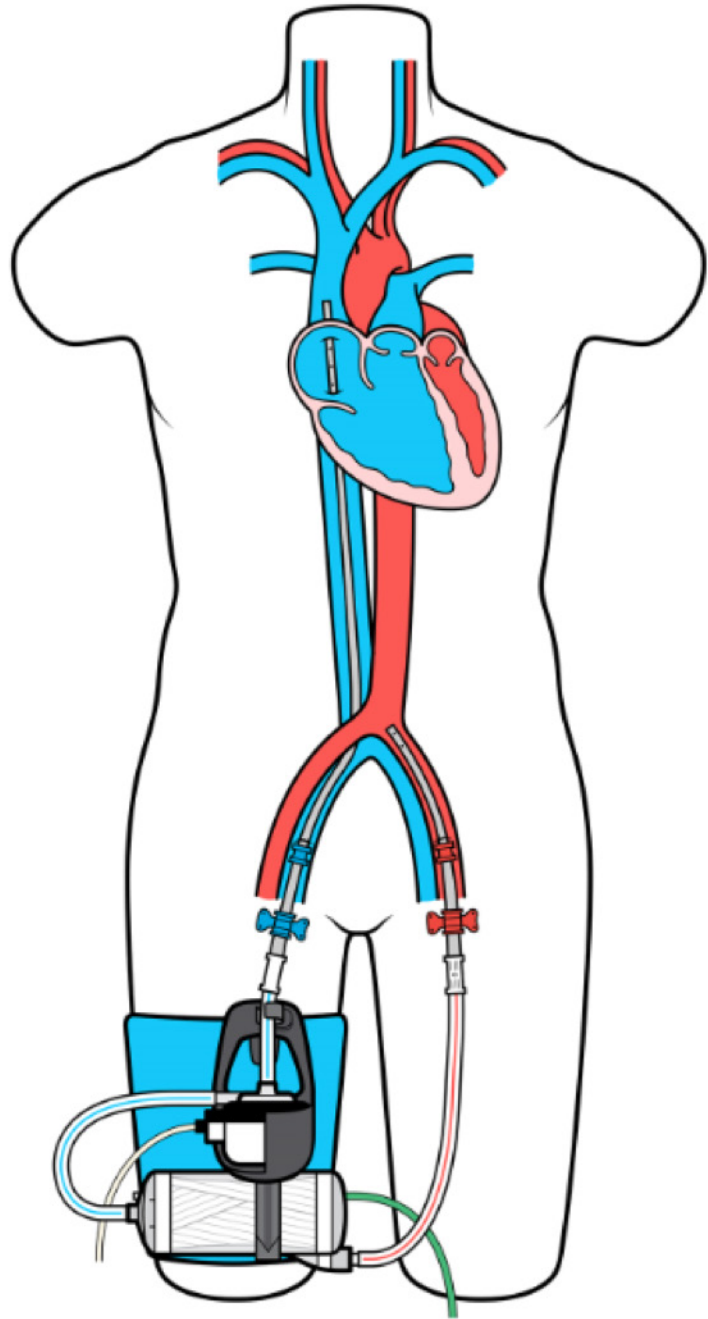
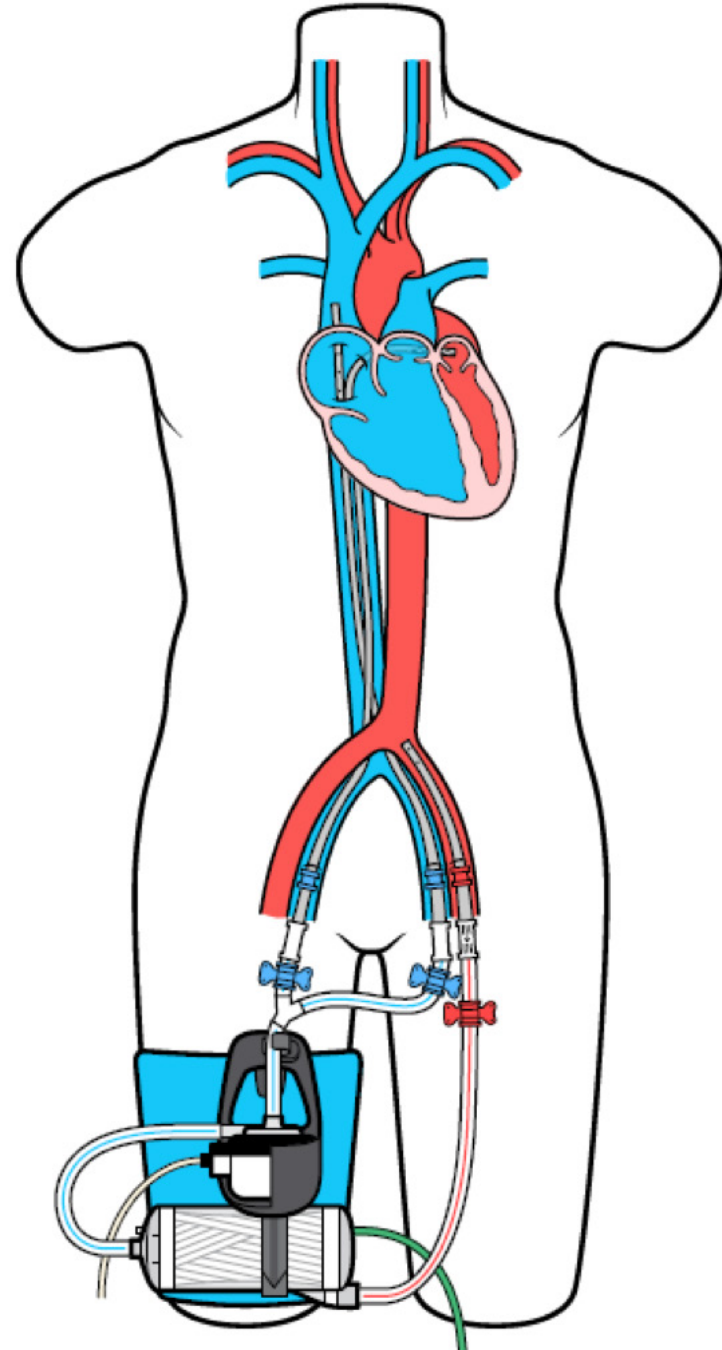


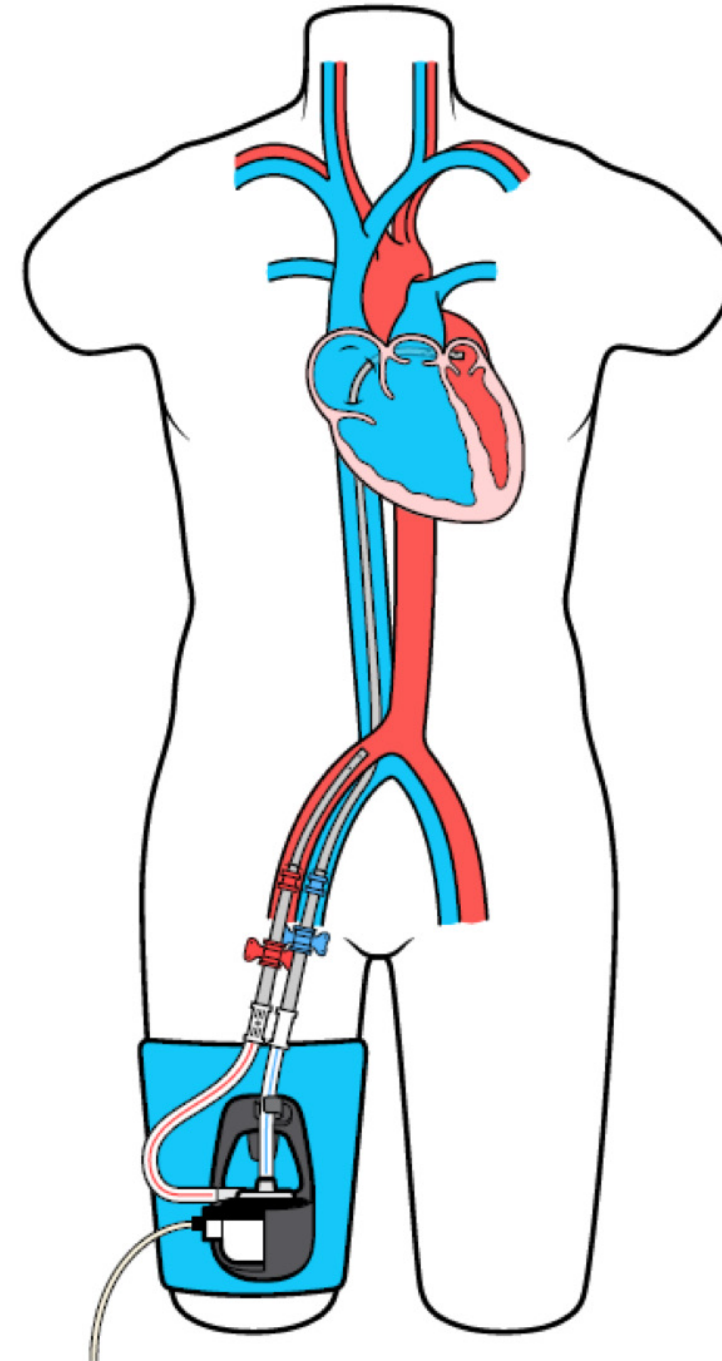
TANDEM**LIFE** LS  
Veno-Arterial ECLS



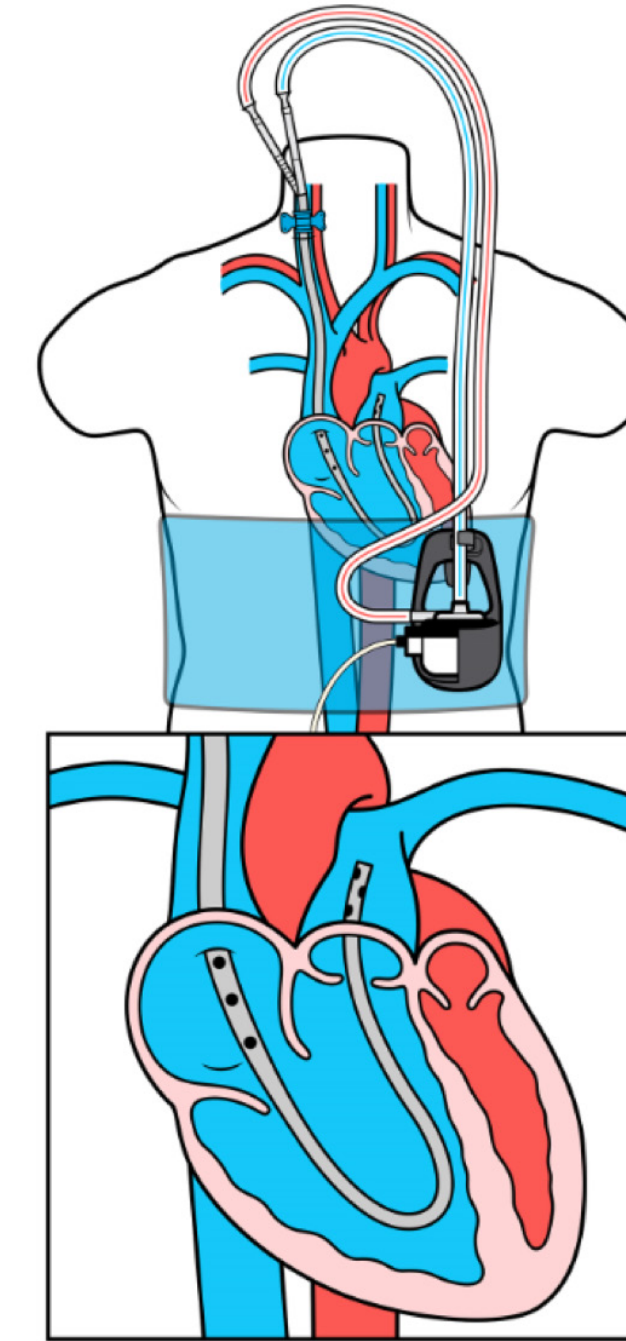
TANDEM**LIFE** LS  
Veno-Arterial ECLS with Vent



TANDEM**HEART** LS  
LA-FA Bypass



PROTEK**DUO** LS  
RA-PA Bypass



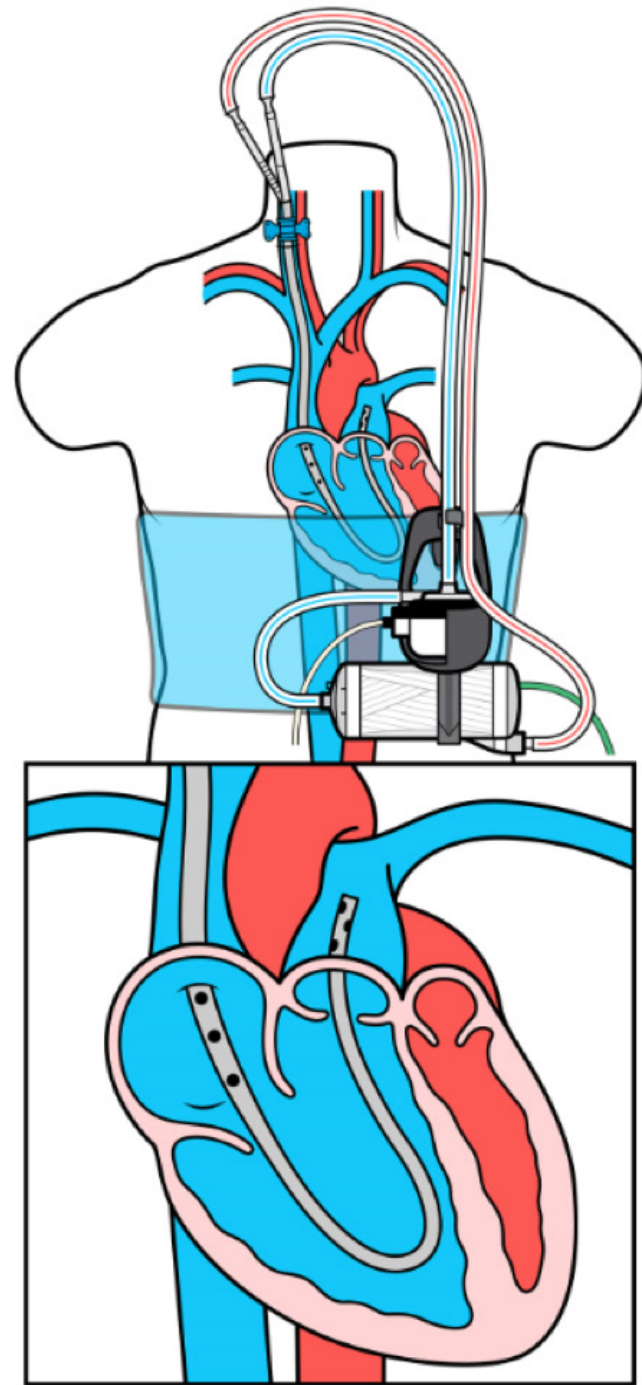
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CUSTOMER SERVICE **800 373 7421**  
OFFICE **620 Alpha Dr, Pittsburgh, PA 15238**  
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# TANDEMLUNG LS

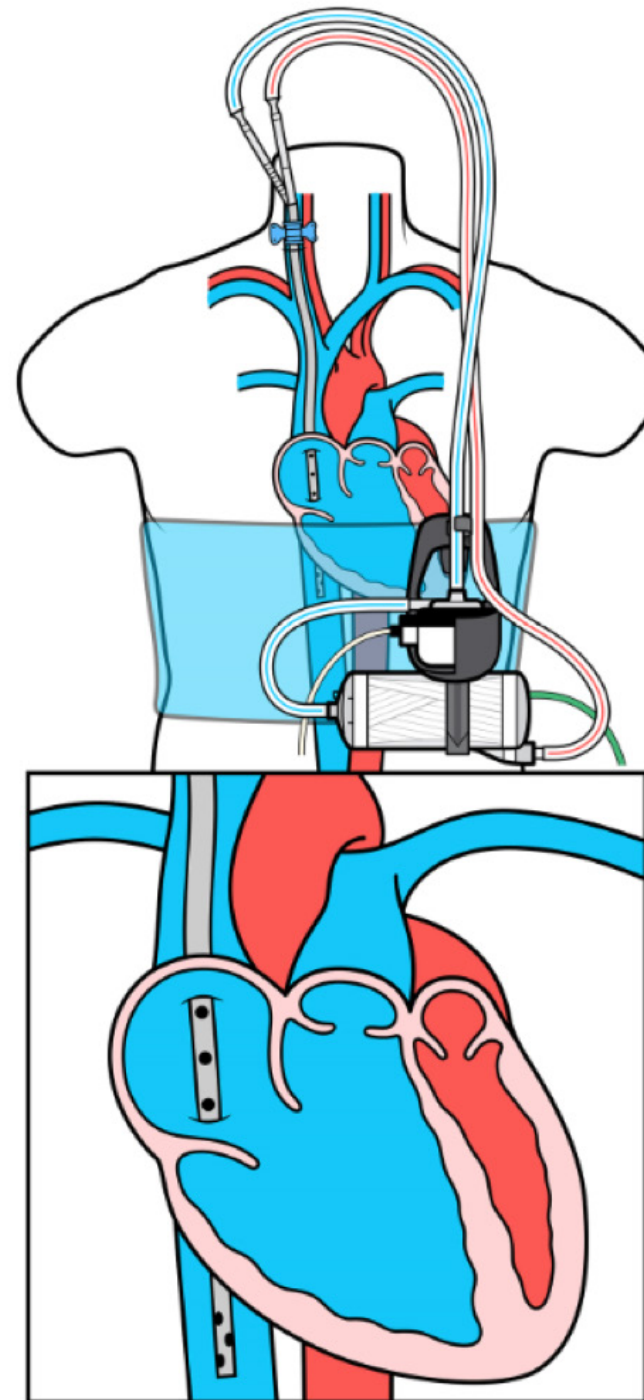
Veno-Venous ECLS



# TANDEMLUNG LS

RAPID DEPLOYMENT

IVC-RA with IVC Drainage



### FDA Indications for Use:

#### The LifeSPARC Controller

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. For Adults only.

#### The LifeSPARC Pump

The LifeSPARC Pump is intended to pump 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 is intended for use in an extracorporeal circuit requiring cardiopulmonary bypass for application duration limited to six hours. Within the specified flow rate range, the device oxygenates the blood and removes carbon dioxide from the blood. Responsibility for clinical application of the oxygenator rests solely with the attending physician.

#### ProtekSolo 62 cm 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 LifeSPARC extracorporeal blood pump, which returns blood to the patient via the femoral artery or other appropriate site.

#### ProtekSolo 24 Fr Venous Cannula

The Venous Cannula and Obturator is intended to cannulate vessels, perfuse vessels or organs and/or connect with accessory extracorporeal circulatory support equipment. The cannula obturator 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 Fr and 17 Fr Arterial Cannulae

The Femoral Arterial Cannula and Introducer are intended 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 support. These devices are to be used by a trained physician only.

#### ProtekDuo 29 Fr, 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.

#### LifeSPARC Priming Tray

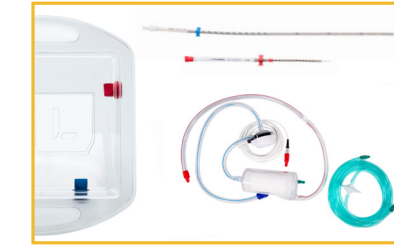
The sterile priming basin is designed to provide customers with a quick and repeatable priming process that can be implemented virtually anywhere and anytime TandemLife support is needed. The priming tray packaging is included with the following procedure kits.

## ORDER INFORMATION

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### TANDEMLIFE LS

### PROTEKDUO LS



#### Catalog Numbers

5840-2415 (24 Fr Venous, 15 Fr Arterial)  
5840-2417 (24 Fr Venous, 17 Fr Arterial)

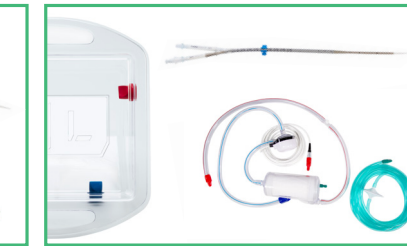
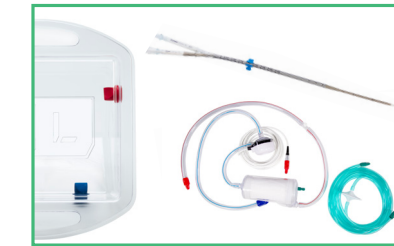
#### Catalog Numbers

5820-2916 (29 Fr)  
5820-3118 (31 Fr)

### TANDEMLUNG LS

### TANDEMLUNG LS

RAPID DEPLOYMENT



#### Catalog Numbers

5830-2916 (29 Fr)  
5830-3118 (31 Fr)

#### Catalog Number

5830-3631 (31 Fr)

### TANDEMHEART LS



**Contact your local sales representative or dial (800) 373-7421 to speak to a customer service representative.**

#### Catalog Numbers

5810-6215 (62 cm Transseptal, 15 Fr Arterial)  
5810-6217 (62 cm Transseptal, 17 Fr Arterial)  
5810-7215 (72 cm Transseptal, 15 Fr Arterial)  
5810-7217 (72 cm Transseptal, 17 Fr Arterial)

# LifeSPARC Cannulation Guide

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