

MAQUET CARDIOHELP SYSTEM



ABOUT

The **Maquet Cardiohelp System** is a compact extracorporeal life support platform designed to provide temporary cardiac and respiratory support in critical care and transport settings. Engineered for mobility, the system integrates pump, oxygenation, and monitoring capabilities into a single portable unit, allowing clinicians to initiate and maintain ECMO therapy with greater flexibility. Its intuitive interface displays real-time patient and system parameters, supporting quick decision-making during high-acuity situations. The Cardiohelp system is designed for use in a variety of environments, including operating rooms, intensive care units, and interhospital transport. With its modular design and reliable performance, it supports both adult and pediatric patients requiring short-term circulatory and pulmonary assistance.

FEATURES

- **Integrated ECMO Platform:** Combines pump, oxygenator, and monitoring functions into a single compact system.
- **Portable Design:** Lightweight and transport-ready configuration supports use during patient transfer and in multiple clinical environments.
- **Real-Time Monitoring:** Displays key parameters such as blood flow, pressures, and oxygenation.
- **User-Friendly Interface:** Intuitive controls and clear display simplify system operation in critical care situations.
- **Flexible Clinical Applications:** Supports both cardiac and respiratory support for adult and pediatric patients.



SPECIFICATIONS



DIMENSIONS

Height: 14 in (31.5 cm)

Width: 10 in (25.5 cm)

Depth: 17 in (42.7 cm)

Weight: 22 lb (10 kg)

DISPLAY

Type: LCD Touchscreen

Size: 5.7 in

BATTERY

Operating Time: Minimum 90 minutes (fully charged)

ELECTRICAL REQUIREMENTS

AC Power: 100–240 V, 50–60 Hz

DC Power: 11–28 Vg

HLS SET ADVANCED 5.0

Maximum Blood Flow: 0.5 – 5 L/min

Gas Exchange Membrane Surface Area: 1.3 m²

Heat Exchange Surface Area: 0.3 m²

Priming Volume (HLS Module Advanced): 240 mL

Priming Volume (HLS Set): 570 mL

Membrane: Diffusion membrane (PMP)

Coating: BIOLINE Heparin Coating

Integrated Sensors:

- 3 Pressure Sensors (Venous, Arterial, Internal)
- Venous Oxygen Saturation (SvO₂)
- Hemoglobin
- Hematocrit
- Venous and Arterial Temperature

Duration of Use: Maximum 6 hours

HLS / HIT SET ADVANCED 7.0

Maximum Blood Flow: 0.5 – 7 L/min

Gas Exchange Membrane Surface Area: 1.8 m²

Heat Exchange Surface Area: 0.4 m²

Priming Volume (HLS Module Advanced): 273 mL

Priming Volume (HLS Set): 600 mL

Membrane: Diffusion membrane (PMP)

Coating: BIOLINE and SOFTLINE (HIT)

Integrated Sensors:

- 3 Pressure Sensors (Venous, Arterial, Internal)
- Venous Oxygen Saturation (SvO₂)
- Hemoglobin
- Hematocrit
- Venous and Arterial Temperature

Duration of Use: Maximum 6 hours