

Therapies for any patient, any time

Thoratec offers the broadest range of advanced circulatory support options available. From acute heart failure to biventricular support to long-term circulatory support requirements, Thoratec offers proven therapies to provide more time and improved quality of life for patients and their families.



Thoratec CentriMag® Technologically advanced fully magnetically levitated circulatory support device that provides rapid hemodynamic stabilization



Thoratec PediVAS® Fully magnetically levitated technology for pediatric patients



Thoratec PVAD™ Proven technology for mid-term RVAD, LVAD, or BiVAD support



Thoratec IVAD™ First and only implantable BiVAD for home discharge



HeartMate II® Designed to provide up to 10 years of support, its small size and quiet operation make the HeartMate II suitable for a broader patient population

With more than 18,000 clinical VADs implanted, Thoratec has the experience and commitment required to support these promising therapies. As part of this continuing commitment, Thoratec offers extensive training and support to cardiac surgeons, cardiologists, implanting centers, patients, and families.



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Versatile Options for Hemodynamic Stabilization and Support



CentriMag®
Acute Circulatory Support Device

PediVAS®
Acute Circulatory Pediatric Support Device

Fully Magnetically Levitated
Circulatory Support Devices

CentriMag indications for use

The CentriMag extracorporeal blood pumping system is intended for use for up to 30 days to support one or both sides of the heart. In addition, the CentriMag System is intended for use in an ECMO circuit to provide cardiopulmonary support for up to 30 days when used with other commercially available (CE Marked) components approved for this application.

PediVAS indications for use

The PediVAS blood pump is intended to provide circulatory support in neonate and pediatric patients. It can provide up to 1.5 Lpm of blood flow when used with commercially available neonatal and pediatric cannulae. In addition, the PediVAS blood pump may be used in an ECMO circuit to provide cardiopulmonary support when used with other commercially approved (CE Marked) components for this application. The PediVAS blood pump may be used for up to 30 days of continuous support.

References

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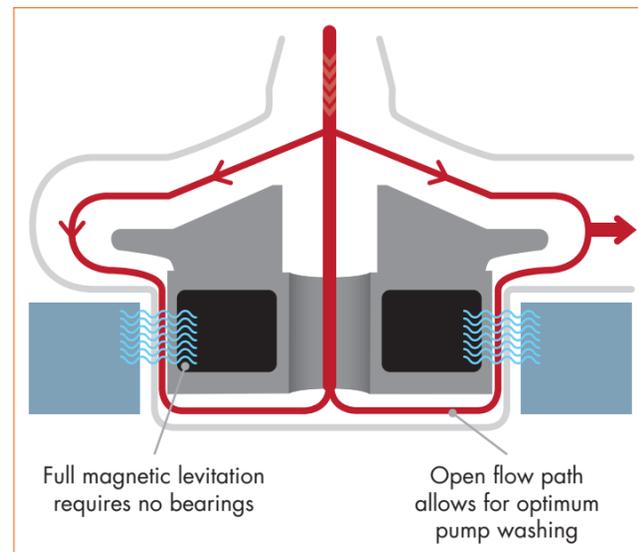
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Full-support, acute solutions

When managing your patients with acute cardiogenic shock, timing can mean everything. Thoratec offers first-line solutions for clinicians requiring quick and effective circulatory support.

CentriMag and PediVAS, optimized for adult and pediatric populations, are technologically advanced acute circulatory support devices that provide hemodynamic stabilization and support for the left, right, or both sides of the heart. Part of the comprehensive Thoratec device portfolio, this technology addresses a wide range of patients and offers you an economical short-term solution while longer-term options are assessed.

The only fully magnetically levitated circulatory support devices available

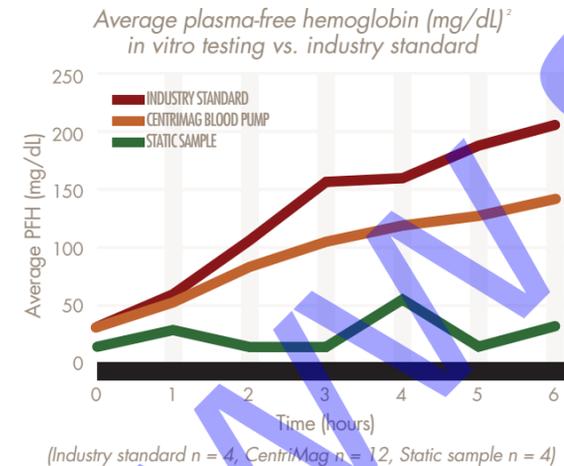


Designed for superior performance and safety

- **Magnetically levitated impeller** minimizes blood-related complications¹ such as hemolysis
- **Absence of seals, bearings, or valves** eliminates areas of blood stasis
- **Wide blood pathway and uniform washing of the impeller** limits turbulence in the pump

Clinical applications for use up to 30 days

- Extracorporeal circulatory support
- ECMO support
- Cardiopulmonary bypass and support
- Emergency support and transport



Lower hemolysis levels

- CentriMag provides a 30% reduction in plasma-free hemoglobin levels versus industry standard²
 - Lower plasma-free hemoglobin levels indicate lower hemolysis²
- In multiple clinical reports, CentriMag demonstrated either no hemolysis or very low levels^{3,11}

The CentriMag and PediVAS Systems

Designed for easy implantation and management for adult and pediatric use. Support components are compatible with both devices.



CentriMag Pump

- Provides flow up to 10 Lpm
- 31 mL priming volume
- 3/8-in barbed connectors
- Contact-free blood chamber



PediVAS Pump

- Provides flow up to 1.5 Lpm
- Low 14 mL priming volume
- 1/4-in barbed connectors
- Contact-free blood chamber



CentriMag/PediVAS Motor

- Reliable functionality
- Reusable and durable design
- Compatible with both devices



Second-generation Primary Console and Monitor (shown in bilateral support configuration)

- Easy, intuitive interface
- Monitor (optional) can display bilateral support information
- Fully transportable
- Rechargeable NiMH battery
- Compatible with both devices