

The world's smallest
Extracorporeal Transport System



The Quantum “IRIS” Transport System

Leading the world in recirculatory support technology.

Maximum Intelligence , Maximum Safety



The Quantum IRIS Transport System with optional G Clamp and Hand Crank

Spectrum Medical is proud to present its long-awaited Quantum Transport System known around the world as IRIS.

Without doubt the world's most compact transport system solution, weighing less than 6 kgs, while maintaining the intelligence and sophistication you come to expect from Spectrum Medical. The flexible low noise pump drive system supports Spectrum's Next Gen CP20 NG and CP22 NG Centrifuge pump heads.

The Quantum Transport System includes:

- 2 Flow channels with bubble detection.
- 4 Pressure Channels (inlet, pre and post oxy, and Delta P)
- Venous and Arterial Saturation plus Hb/ Hct
- DO_2 and VO_2
- Temperature

Furthermore, the Quantum Transport System supports connectivity to the Quantum Elite to ensure data captured during transport can be transferred to the patient's record.

The Quantum Transport System has full interoperability with Spectrum Medical's Extracorporeal Perfusion Technologies including the new generation Mirandola frame, the Quantum Elite and the Quantum Ventilation Lite.



The Quantum Sterile Technologies

Introducing the Quantum Oxygenator a revolution in membrane gas transfer technology combining a unique fluid path design and low pressure drops.

Total Surface Area (Ventilation Efficiency)

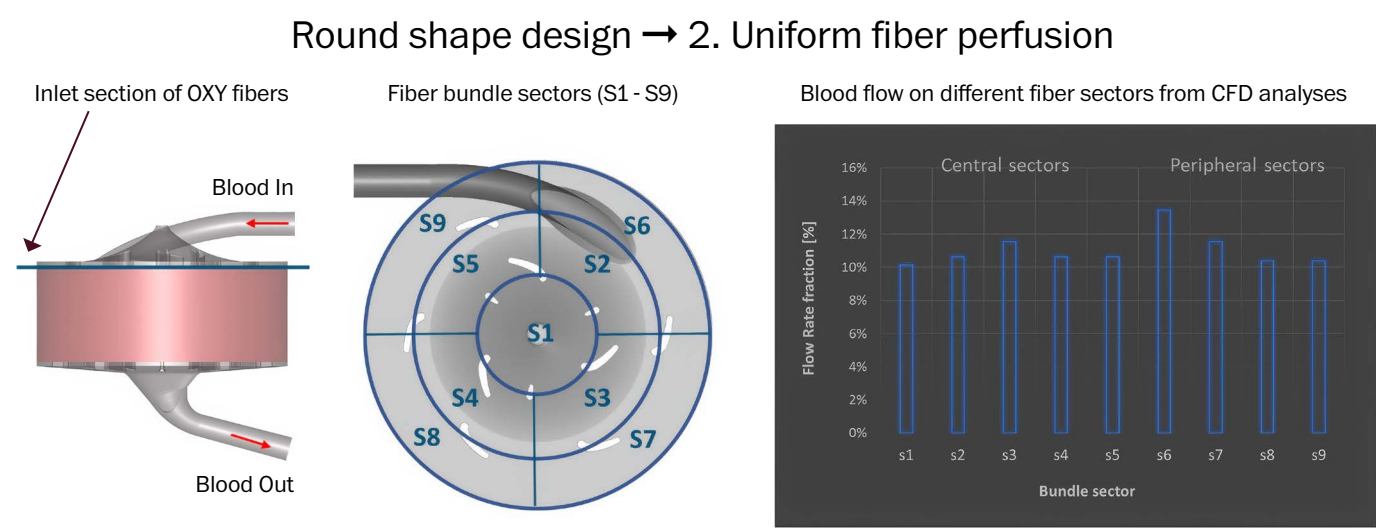
Spectrum Medical’s revolutionary laminated membrane construction significantly increases gas exchange efficiency, minimises pressure drop and priming volume. The unique construction eliminates the current compromise between fibre bundle compression and low priming volume.

Maximum Fluid Dynamic Performance

Spectrum Medical continues its commitment to patient safety with the integration of its patented Quantum Vortex Flow technology. This innovation in fluid dynamics ensures that low velocity sections and dead space within the fluid path has been eliminated and is central to Spectrum Medical’s “anti-thrombotic” strategy.

This unique design concept in conjunction with the Quantum Vortex Flow and Fibre Separation technologies guarantees that the total surface area of the laminated bundle construction is subjected to a circulating blood flow with a guaranteed full volume wash out of less than 3 seconds when flowing blood at 5 lpm.

Biocompatible
Resulting from significant process research, a world first in the application of PC1036 cross-linked biocompatible coating to a fibre membrane construction. Superior adhesion qualities, elasticity and surface smoothness maximises antithrombotic performance throughout the life of the product.



Uniform distribution of blood flow through the fibers
No corner → No stagnant Areas

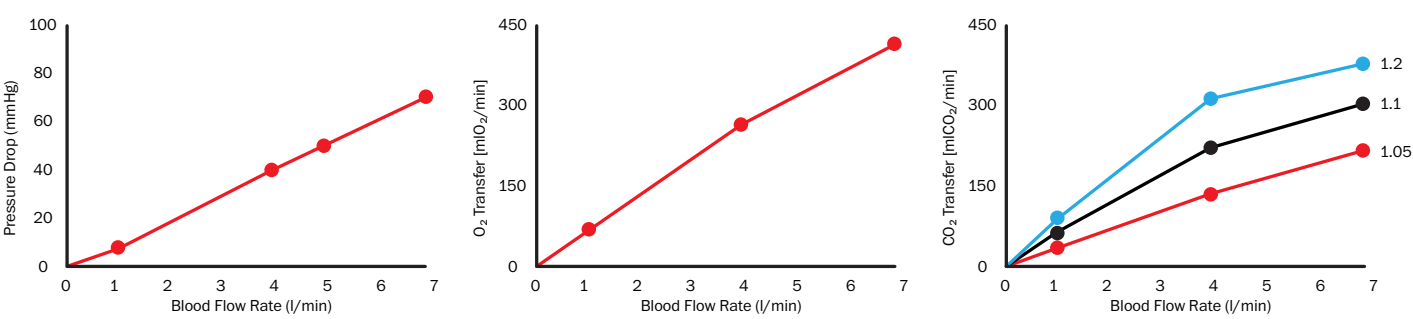
The Quantum Oxygenator

Proprietary membrane technology ensures industry leading gas exchange.

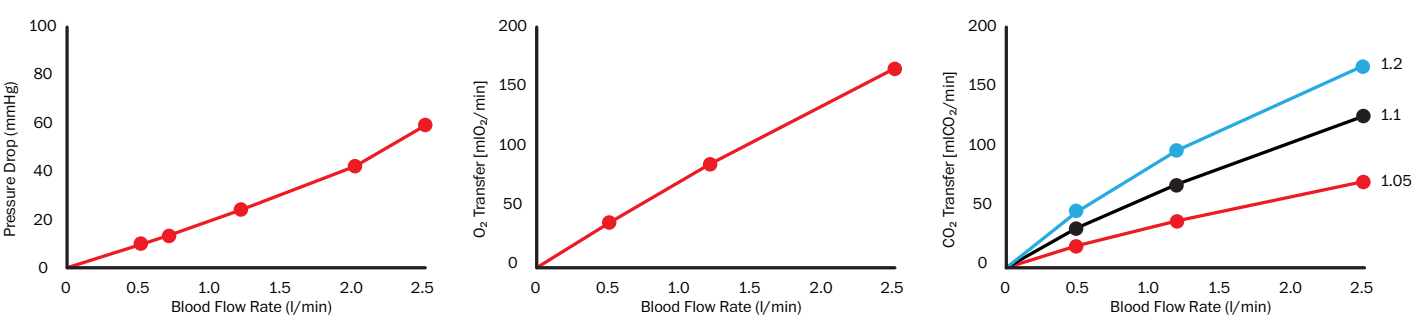
Sizes available:
Adult VT-200
Pediatric VT-75



Quantum Perfusion Blood Oxygenator VT-200



Quantum Perfusion Blood Oxygenator VT-75



Keep Checking our website for updates.

Performance of the device were obtained in agreement with ISO 7199 Standard (37° C)

The Next Generation Quantum Centrifugal Pump

The Quantum Dual Lumen Technology

CP-20 NG (1/4) and CP-22 NG (3/8).

Spectrum Medical's next generation range of Quantum Centrifugal Pumps provide exceptional levels of performance along with significant reductions in prime volume. The integration of a single sapphire bearing, and patented hydro-dynamic balancing technology ensures levitation

at low RPMs leading to significantly reduced heat generation and haemolysis.

In-line pressure and temperature measurement of both the arterial and venous lines can now be accomplished without compromising the safety of the circuit.

Spectrum Medical's revolutionary range of Dual Lumen Cannulas minimizes recirculation during respiratory support.

Spectrum Medical's new Dual Lumen Cannula allows for venous drainage and reinfusion of blood via the internal jugular vein during support procedures lasting up to 6 hours.

The device exploits a single site insertion which reduces the invasiveness of extracorporeal procedures. It is inserted via the right internal jugular vein. Blood is drained through the lumen of the outer catheter and returned through the lumen of the inner catheter. The device features multiple inflow openings in the outer catheter limiting the circulation of unoxygenated blood.

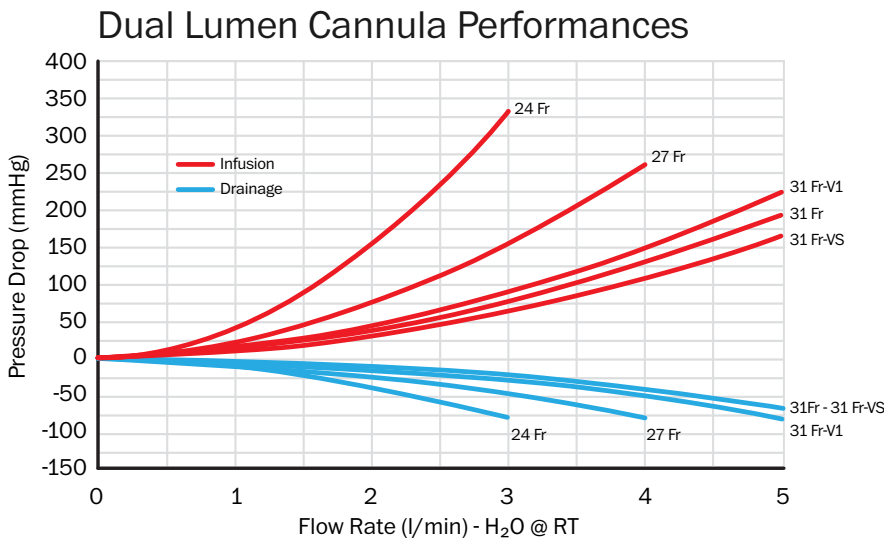
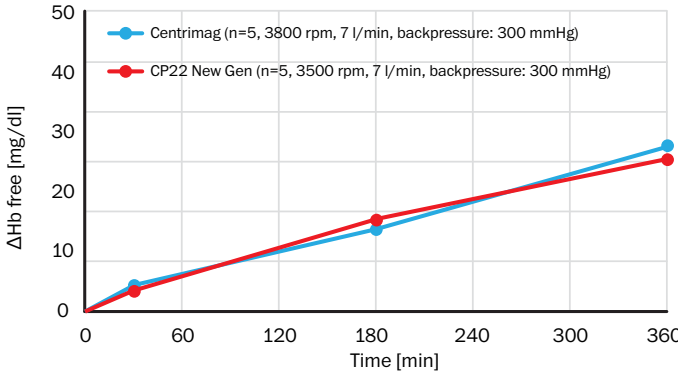
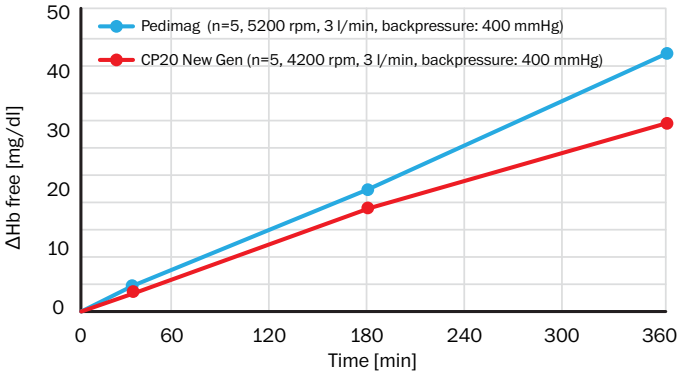
The Cannula is supplied in different sizes and different lengths and is coated with Spectrum Medical's crosslinked biocompatible PC1036.



CP-20 NG



CP-22 NG



Sentinel Total Care

Absolute dedication to customer support and a total solutions approach to a “trusted partner status”.

Software Updates:

Spectrum Medical is committed to the continuous improvement of your Quantum technologies. We continually review, enhance, and add software functionality driven by evidence-based clinical usage and trends. Any software deployment is subject to prior customer approval and training via Spectrum Medical.

On Site Customer Support:

A Spectrum Medical Product Specialist will perform all required routine servicing to ensure optimum performance of your Quantum Perfusion System. Visiting Product Specialists will also provide additional user training and configuration support to enhance your clinical practice. Using dedicated Product Specialists as opposed to traditional service personnel is a unique strategy with Sentinel Total Care covering all associated service visit costs (travel, labour, and spare parts).

Extended Warranty:

Sentinel Total Care includes comprehensive protection in the event of any breakdown of your Quantum System. Coverage includes modules, sub-assemblies, and any associated accessories (sensors, cables, clamp assemblies, batteries,

etc.). Quantum products beyond economical repair will be replaced with the latest ‘new build’ technologies at no additional cost.

Accidental Damage:

No questions asked, unintentional damage protection, including all Quantum accessories. Quantum products beyond economical repair will be replaced with the latest ‘new build’ technologies at no additional cost. Sentinel Total Care allows you to effectively manage your budget with no sudden large Purchase Order

Emergency Loan Equipment:

Spectrum Medical will dispatch complimentary loan equipment if your defective equipment cannot be rectified within 24 hours of being returned to a Spectrum Medical Service Centre. To maximise equipment uptime our loan equipment stays with you until you receive a repaired or new replacement module from Spectrum Medical.

Quantum Sterile Products Support:

Quantum Sterile products including Centrifuge Pumps, Oxygenators and Cannulas supplied that have exceeded their expiration date can be return to Spectrum Medical for exchange. Please note Quantum SuperPACs are not covered by this clause.



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