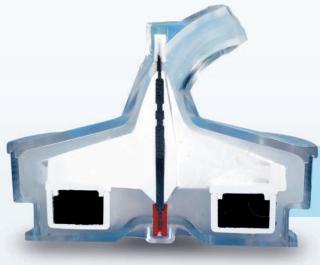


A REVOLUTION IN CENTRIFUGAL BLOOD PUMPING









SIMPLE DESIGN

RevOlution's™ simple design supports its unsurpassed flow efficiency. The balance of magnetic and hydrodynamic forces allows the impeller to "float" which increases pump-head efficiency. The injection molded magnet offers high reliability and improved magnetic coupling. RevOlution's state-of-the-art design helps protect against thrombus formation due to its:

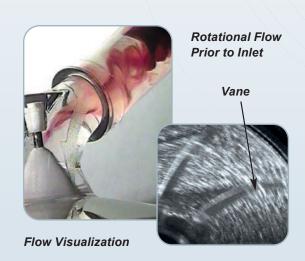
- minimal surface area
- large washout holes
- low blood transit time
- no stagnant areas

Patented seal-less, low friction stainless steel bearings improve pump reliability.

The blood actually serves to lubricate and cool the bearings which results in lower heat generation throughout the pump-head and less blood trauma overall.

RevOlution's[™] patented "spin-inducer" impeller design contributes to lower shear and lower hemolysis. The impeller helps create a rotational flow upstream of the inlet. The patented curved inlet port reduces the acceleration of red blood cells as the blood enters the pump-head.

Both of these features resulting lower shear and **less blood trauma**: RevOlution's™ unique impeller design maintains a consistent blood flow path free of vane vortices and **no re-circulation zones**. The velocity contours of RevOlution™ indicate absolutely no vortices within the pump-head or in the outlet. This means **low shear**. We even went a step further to prove it using flow visualization, an advanced high-speed video technique. (see photo at right)



REVOLUTION[™] WAS DESIGNED WITH SIMPLICITY IN MIND.

THE STATE OF THE ART MANUFACTURING PROCESS COMBINED WITH REVOLUTION'S MINIMAL PARTS ENSURE A HIGH QUALITY AND RELIABLE PUMP-HEAD.

THE UPPER AND LOWER HOUSING ARE ULTRASONICALLY WELDEN TOGETHER TO PROVIDE A ROBUST AND LEAK-PROOF SEAL.

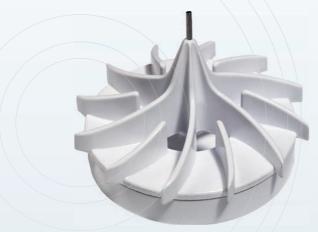


- Reduced blood trauma
- Low heat generation
- · High operational efficiency
- Reduced RPM to generate a given output and pressure
- Lower shear

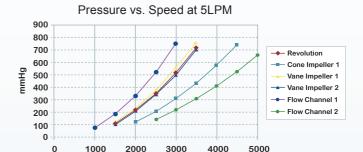
REVOLUTION UNDERGOES
PC COATING

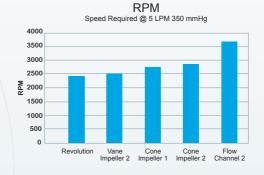
 The blood contact surfaces treatment based on phosphorylcholine which, by reducing the protein and platelet aggregation, guarantees a high level of biocompatibility

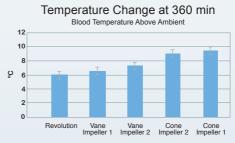


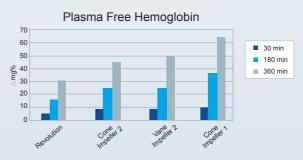












RevOlution™ Undergoes PC coating, the blood contact surfaces treatment based on phosphorylcholine which, by reducing the protein and platelet aggregation, guarantees a high level of biocompatibility.

in cardiopulmonary bypass procedures for periods of up to 6 hours.

SPECIFICATIONS

Delevie e Malacca	57I
Priming Volume	57ml
Maximum Flow Rate	8 lpm
Maximum Outlet Pressure	800 mmHg
Inlet/Outlet Port	3/8 in. (9.5 mm)
Pump Casing	Polycarbonate
Shaft	Stainless Steel
Impeller & Magnet Housing	ABS
Bearings —	—— HDPE
Magnet	— Nylon NdFeB Blend



SCPC + SCP CENTRIFUGAL PUMP SYSTEM



SCP INTEGRATED CENTRIFUGAL PUMP SYSTEM



ORDER GUIDE

CATALOG NUMBER	PRODUCT DESCRIPTION

050-300-000	RevOlution™ Centrifugal Blood Pump
050-300-700	RevOlution™ Centrifugal Blood Pump PC Coated





The Sorin Group Italia Quality EN ISO 13485:2003/AC:2007

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