

ARTERIOUS™
TOGETHER THROUGH LIFE...



CARDIOVASCULAR & THORACIC SURGERY

PRODUCT CATALOGUE

An advanced range of surgical interventional solutions...



ARTERIOUSTM

TOGETHER THROUGH LIFE...

WELCOME TO ARTERIOUS ...

We are value driven and innovative medical technologies firm – ARTERIOUS is an enlivening experience across all the technological aspects of the concerned healthcare products and services.

ARTERIOUS' success and incessant growth lies in clinical execution of successful and strategic moves made in the areas of Manufacturing, Research and Development, Biotechnology and global operations. We have focused on delivering outcomes that meets the most complex and even the minutest medical needs to provide quality solutions that are more accessible and affordable in medical world.

ARTERIOUS has specialized in cardiovascular and thoracic surgical products and the concerned services in the field. We provide a variety of range in products for different surgical interventions including general, orthopaedic, gynaecology, neurology, nephrology and many more operational areas in the medical world.

Through the years, ARTERIOUS brand has gained wide acceptance and has established a tradition of sustained reliability and customer satisfaction.

“ARTERIOUS ENCOURAGES EXCELLENCE IN HEALTH CARE THROUGH ITS TECHNOLOGICAL SOLUTIONS”

“CHALLENGING STEREOTYPES TO MAKE A NEW PATH IN THE DIRECTION OF UNIMAGINABLE INNOVATIONS”

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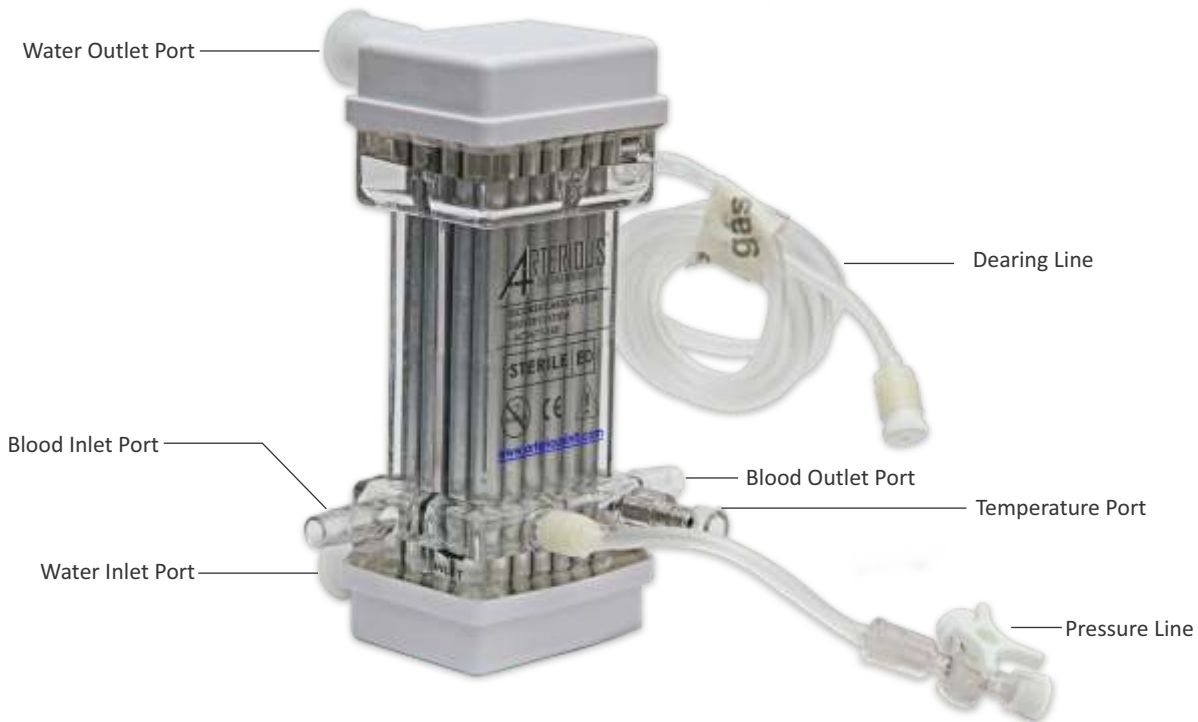
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- Rigid Intracardiac Sucker
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DICON34™ CARDIOPLEGIA DELIVERY SYSTEM

The ARTERIOUS™ DiCON34™ cardioplegia delivery system with an improved heat exchanger module/unit delivers the desired performance in its segment.

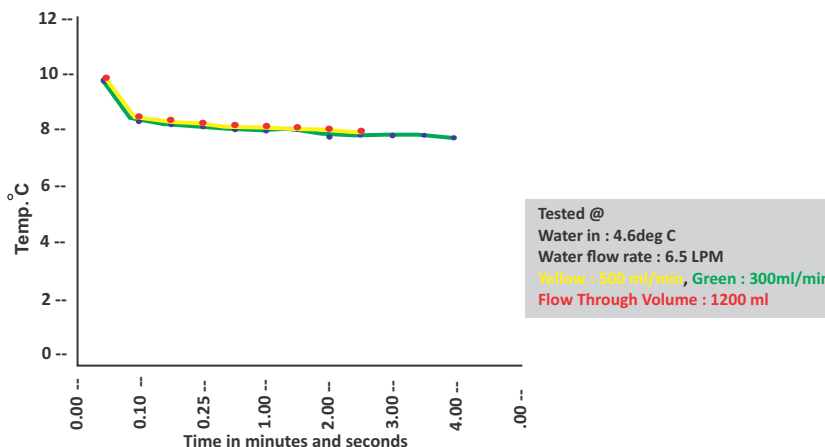
The ARTERIOUS™ DiCON34™ System is designed and developed considering all the essential aspects related to cardioplegia systems i.e. rapid priming efficiency, higher coefficient of heat exchange, lower priming volume and pressure drop(flow resistance), and sufficient capacity to trap gross air.



Productive Features

- Vertically straight water channels for effective cooling of perfusate
- Rapid and efficient priming with lower priming volume of 34 ml only
- Integral Air Trap which limits the potential for air embolization
- Easy and Accurate monitoring of solution temperature
- Flat and small profile for better grip and handling
- Clear Polycarbonate housing enhances visibility
- Customized delivery lines

COOLING PERFORMANCE OF DICON34™



ARTERIOUS™ DiCON34™ Cardioplegia Delivery System with its potentially effective design integrated with desirable productive features collectively ensures its efficiency leading to the best of prolonged cardiac arrest and adequate myocardial protection.

Technical Specification

Heat Exchanger Material	Ceramic coated Aluminium tubes
Surface Area	0.067 m ² / 677cm ²
Cardioplegia Solution inlet	1/4"(6.4mm)
Cardioplegia Solution outlet	1/4"(6.4mm)
Water ports	Hansen Coupler, 1/2"(12.7mm)
Temperature Detection	YSI 400 Series port
Blood Flow Range	10 -3000 mL/min
Recommended Blood flow rate	Up to 300mL/min
Priming Volume (device only)	34 ml
Maximum Rated Pressure*, Blood side	40kPa / 0.4bar / 5.80psi / 300mmHg
Maximum Rated Pressure*, Water side	350kPa / 3.5bar / 50.7psi / 2625.2mmHg

Ordering Info

Product Code	Description	Units per Carton/Pack
ACD677-14D	DiCON34™ Cardioplegia Set (1:4 Blood to Crystalloid) with Bridge between Blood and Crystalloid Lines	6
ACD677-41A	DiCON34™ Cardioplegia Set for Adult (4:1 Blood to Crystalloid) with Bridge between Blood and Crystalloid Lines	6
ACD677-41P	DiCON34™ Cardioplegia Set for Pediatric (4:1 Blood to Crystalloid) with Bridge between Blood and Crystalloid Lines	6
ACD677-00C	DiCON34™ Cardioplegia Set (Customized Blood to Crystalloid) with Bridge between Blood and Crystalloid Lines	6

Accessories for DiCON34 Cardioplegia Set

Product Code	Description	Units per Carton/Pack
BH-01	Basic Holder for module	1
998	Isolator Line	10

CARDIOPLEGIA DELIVERY CHAMBER

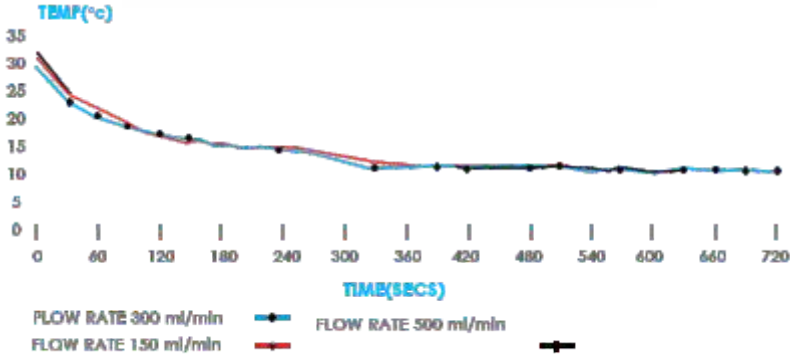
The ARTERIOUS™ Cardioplegia Delivery Chamber is a classic device meant for Cardioplegia delivery with unique helical coil for efficient heat exchange and additionally for temporary storage during cardiac surgeries.

Productive Features

- Unique helical - counter current - down flow water channel enhances heat exchange phenomenon
- Reservoir capacity of 2000ml
- Gentle mixing of crystalloid and blood
- Efficiently eliminates air bubbles
- Integrated coarse filter ensures emboli free perfusate



CARDIOPLEGIA DELIVERY CHAMBER
 'Invirto Cooling Curves' with blood



Ordering Info

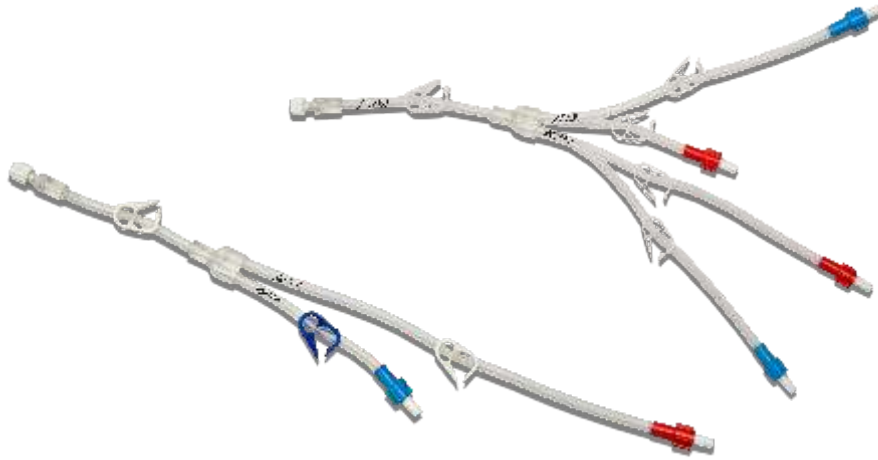
Product Code	Description	Units per Carton/Pack
CDC002	Cardioplegia Delivery Chamber	6

Accessories for CARDIOPLEGIA DELIVERY CHAMBER

Product code	Description	Units per Carton/Pack
CBH001	Holder for Cardioplegia delivery Chamber Unit	1

CARDIOPLEGIA CIRCUIT ADAPTERS

ARTERIOUS™ CARDIOPLEGIA CIRCUIT ADAPTERS are designed to be used in conjunction with aortic root and vessel cannula to deliver cardioplegia with customized content and path.



Ordering Info

Product Code	Description	Units per Carton/Pack
CCA02	Cardioplegia Adapter with two lumen(Colour Coded)	10
CCA04	Cardioplegia Adapter with four lumen (Colour Coded)	10

ARTERIAL FILTERS

ARTERIOUS™ Arterial Filters are newly designed and developed to eliminate air embolization by removing microbubbles from the arterial line which additionally removes any of the clots, debris, and other aggregates from the blood.



Productive Features

- Clear Polycarbonate Housing for total visibility
- Non turbulent, tangential flow path minimizes the blood trauma
- Computer Aided Design(CAD) improves debubbling capacity
- Easy and efficient priming
- Concentrically pleated filter media for higher surface area

Technical Specification

	AAF7150 (Adult)	AAF488 (Pediatric)	AAF240 (Infant/Neonate)
Priming Volume	150 ml	88 ml	40 ml
Filter Pore Size	Polyester, 40 µm	Polyester, 40 µm	Polyester, 40 µm
Effective Surface Area of Filter	660 cm ²	400 cm ²	120 cm ²
Maximum Flow Rate	2.0 L/min	4.0 L/min	7.0 L/min
Blood Ports	3/8"	3/8"	1/4"

Ordering Info

Product code	Description	Units per Carton/Pack
AAF7150	Arterial Filter with loop, Adult	10
AAF488	Arterial Filter with loop, Pediatric	10
AAF240	Arterial Filter with loop, Infant/Neonate	10

Accessories for ARTERIAL FILTERS

Product code	Description	Units per Carton/Pack
ABH00X1	Holder for Arterial Filter Units	1

SAF001 ARTERIAL FILTERS

A classic range of Arterial Filters- **SAF001** from ARTERIOUS™ is designed to meet the functional needs of the arterial line filters in simpler and efficient way.

Productive Features

- Clear Polycarbonate Housing for enhanced visibility
- Circular-O- Elliptical flow eliminates flow eddies
- Efficiently primed with low priming volume
- Unique double barrier filtration assures complete eradication of microbubbles and other aggregates



Technical Specification

Priming Volume	120 ml
Filter Pore Size	Polyester-200 µm Polyolefin-60 µm
Maximum Flow Rate	8 L/min
Blood Ports	3/8"

Ordering Info

Product code	Description	Units per Carton/Pack
SAF001	Arterial Filter with loop	18
SAFX022	Arterial blood and bubble trap filter with loop (Adult)	18
SAFX020	Arterial blood and bubble trap filter with loop (Infant)	18

Accessories for SAF001 ARTERIAL FILTERS

Product code	Description	Units per Carton/Pack
SBH00X1	Holder for Arterial Filter Units	1
SPBH0Z2	Holder for Arterial blood and bubble trap filter (Infant) Units	1

BUBBLE TRAPS

ARTERIOUS™ Bubble Traps' range is originally designed to diminish air embolization by simple and effective filtration unit with higher air microbubbles removal efficacy.

ARTERIOUS™ Bubble Trap in the arterial line of CPB circuit proves beneficial in protecting the cerebrovascular system from micro embolic events.



Productive Features

- Clear Polycarbonate Housing for enhanced visibility
- Circular-O- Elliptical flow eliminates flow eddies
- Easy and Efficiently primed with low priming volume

Technical Specification

	BTF200 (Adult)	BTF120 (Adult LP)	BTF025 (Infant/Neonate)
Priming Volume	200 ml	120 ml	25 ml
Filter Pore Size	Polyester, 200 µm	Polyester, 200 µm	Polyester, 200 µm
Maximum Flow Rate	8.0 L/min	8.0 L/min	3.0 L/min
Blood Ports	3/8"	3/8"	1/4"

Ordering Info

Product code	Description	Units per Carton/Pack
BTF200	Bubble Trap with loop, Adult	18
BTF120	Bubble Trap with loop, Adult LP	18
BTF025	Bubble Trap with loop, Infant/Neonate	18
BTF200WL	Bubble Trap without loop, Adult	18
BTF120WL	Bubble Trap without loop, Adult LP	18
BTF025WL	Bubble Trap without loop, Infant/Neonate	18

Accessories for BUBBLE TRAPS

Product code	Description	Units per Carton/Pack
SBH00Y1	Holder for Bubble Trap Adult Units	1
SBH00X1	Holder for Bubble Trap Adult LP Units	1
SBH00Z1	Holder for Bubble Trap Infant/Neonate Units	1

HEMOCONCENTRATORS

ARTERIOUS™ makes hemoconcentration both gentle and efficient. The ARTERIOUS™ Hemoconcentrators ensures the optimal conservation of patient blood and minimizes the need for homologous blood and blood products. By means of transmembrane pressure, they remove excess plasma water and micro molecular components effectively retaining corpuscular blood cells, albumin, and other valuable components of higher molecular weight.



Productive Features

- “No Rinse” attribute enables easy and quick attachment to circuit
- Lower priming volume for controlled hemodilution
- Exceptionally Biocompatible Glycerine free Polysulphone membrane
- High performance hollow fibers technology for gentle and efficient ultrafiltration

Technical Specification

	AHC800	AHC300
Hollow Fiber Membrane	Glycerine Free Polysulphone	Glycerine Free Polysulphone
Effective Surface Area	0.8 m ²	0.3 m ²
Priming Volume	53 ml	30 ml
Maximum Transmembrane Pressure	600mmHg	600mmHg
Housing	Clear Polycarbonate	Clear Polycarbonate

Ordering Info

Product code	Description	Units per Carton/Pack
AHC800	Hemoconcentrator with tubing set and 2L Collecting Bag	10
AHC300	Hemoconcentrator with tubing set and 2L Collecting Bag	10

Accessories for HEMOCONCENTRATORS

Product code	Description	Units per Carton/Pack
HBH001	Holder for Hemoconcentrator Units	1

PERFUSION CUSTOM TUBING PACK

ARTERIOUS™ Perfusion Custom Tubing Pack offers exceptional range of tubings and connector fittings for desirable CPB Circuit setup of various clinical and operational requirements.



Productive Features

- Made from medical grade PVC (Class VI; Ph. Eur, 3rd Edition)
- Highly transparent for clearer visibility of flow and bubbles too.
- Desirable Elasticity and hardness for easy connection
- Non Kinking characteristic to avoid twists
- Precise design and sizing for overall predictable and accurate performance

Technical Specification

Tubing	Poly vinyl chloride (PVC)
Hardness(Durometer)	Shore A 68
Elastic Modulus	802 psi
Connector	Clear Polycarbonate

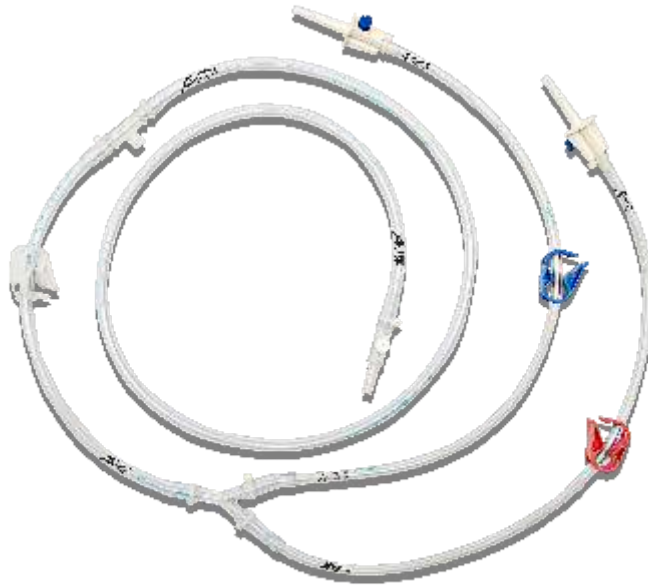
Ordering Info

Product code	Description	Units per Carton/Pack
PCT068	Standard Tubing Pack	10
PCT068AI	Standard Tubing Pack with Additional Items *	10

* Additional items includes Arterial filter (with loop), Extra Connectors

RAPID PRIME LINE

ARTERIOUS™ RAPID PRIME LINE is meant to reduce the priming time of the CPB circuit elements.



Ordering Info

Product code	Description	Units per Carton/Pack
ARL0012	Rapid Prime Line	10

CARDIOTOMY RESERVOIR

ARTERIOUS™ Cardiotomy reservoirs executes its intended multipurpose uses i.e. collection, filtration, air-fluid separation (defoaming), temporary storage of shed mediastinal blood as well as banked blood and priming solutions with a desirable efficiency.



Productive Features

- Hard shell Canister type with 3000ml of maximum capacity
- Distributed defoaming right at the entry point reduces haemolysis
- Efficient filtration for removal of micro aggregates and clots

Technical Specifications

Housing material	Polystyrene
Storage Capacity	3000ml
Maximum Flow Rate	8 L/min
Pre-Filter	High Density Polyethylene [HDPE]
Filter	Non-Woven Polypropylene
Defoamer	Siliconised HDPE
Maximum Rated Negative pressure	300mmHg
Blood Inlet Ports	3 nos., 1/4"
Blood Outlet Port	3/8"
Air vent port	One large vent for quick suction
Priming Port	Two direct and through the filters, all provided with female luer

Ordering Info

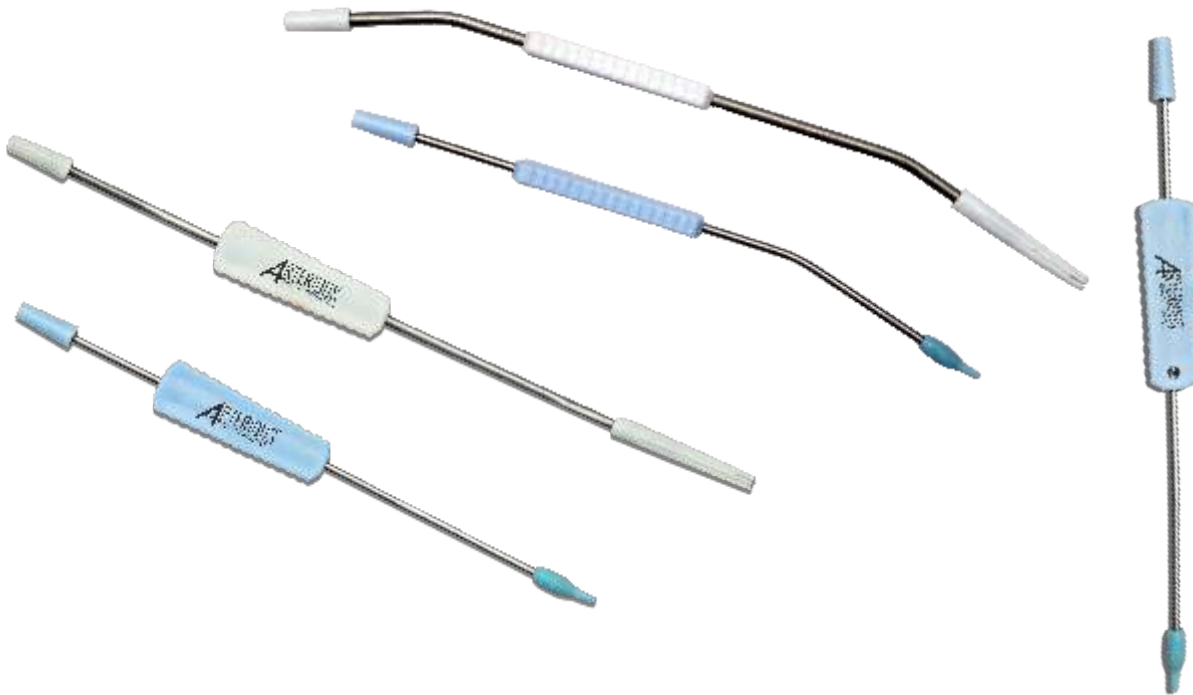
Product code	Description	Units per Carton/Pack
CR3000	Cardiotomy Reservoir	6
CR2000	Cardiotomy Reservoir	6

Accessories for CARDIOTOMY RESERVOIR

Product code	Description	Units per Carton/Pack
CBH001	Holder for Cardiotomy Reservoir Unit	1

RIGID INTRACARDIAC SUCKER

ARTERIOUS™ Rigid Intracardiac Sucker makes suction both gentle and efficient. The unique fingertip control over action of suction enables desirable suction at the particular site.



Productive Features

- Standard low profile SS design
- RIGID TIP with ergonomic plastic handle
- Pead. Instrument is provided with finger tip control

Ordering Info

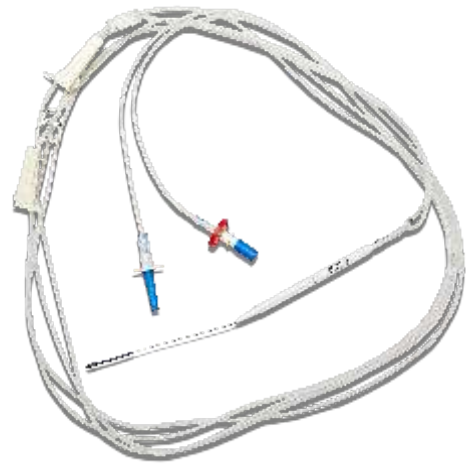
Product code	Description	Units per Carton/Pack
ASW001	Rigid Intracardiac Sucker (Adult)	10
ASW002	Rigid Intracardiac Sucker (Pediatric)	10

The ARTERIOUS™ Mister Blower provides controlled delivery of CO₂ and saline to improve visibility at surgical or anastomosis site during surgery.



Productive Features

- Low profile, SS malleable shaft for improved access and maneuverability
- Precise, accurate flow pattern
- Specialized nozzle with separate orifices for saline and CO₂
- Micronized fine throw for effective tissue moisturization, opening of arteriotomy edges and easy insertion of shunts



Ordering Info		
Product Code	Description	Units per Carton/Pack
AMB011	Mist Blower cannula with tubing set	10

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MEDICAL DEVICES



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