

Affinity Pixie

Performance and Possibilities for Your Small Patients

Innovating for life.

INTRODUCING THE Affinity Pixie[™] oxygenation system

The comprehensive system design of the oxygenator, cardiotomy/venous reservoir and holder provides ease of set-up, ease of use and minimized prime volumes.

Our addition to the Affinity® family

The Affinity Pixie™ Oxygenation System delivers performance and

versatility for neonates, infants and small children requiring cardiopulmonary bypass at flow rates up to 2.0 L/min.

This addition to the Affinity family is part of Medtronic's commitment to providing more options for pediatric patients undergoing cardiopulmonary bypass.

Thromboresistance and enhanced blood compatibility The primary blood contact surfaces of the oxygenator and cardiotomy/venous reservoir are coated with either:

Carmeda®* BioActive Surface

 Durable, non-leaching End Point Attached heparin

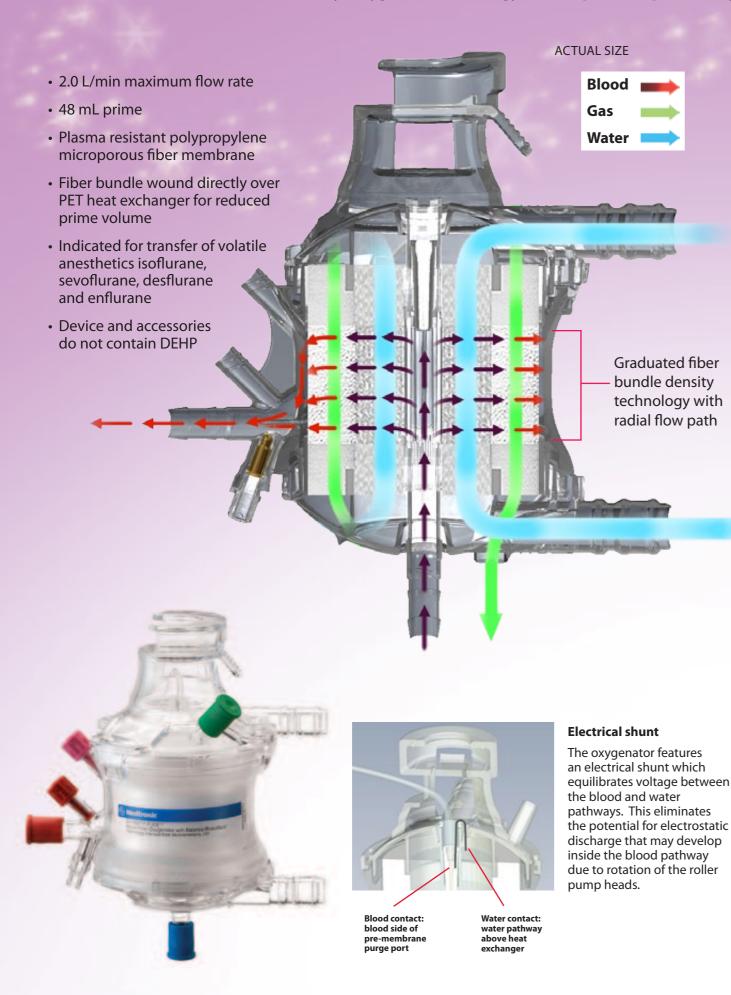
Balance^{™**} Biosurface

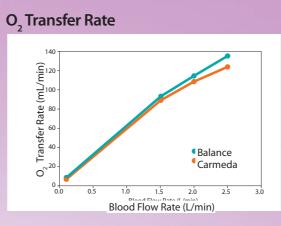
 A hydrophilic biosurface option without heparin

Oxygenator

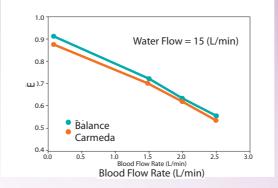
Advanced Affinity[®] oxygenator technology in a compact, low-prime design

Oxygenator Performance Data Data on file – ISO Standard Conditions





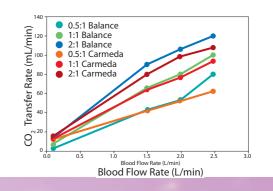
Heat Exchange Effectiveness



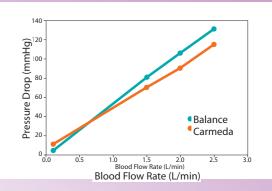


together with radial flow path design provide enhanced gas transfer, low blood-side pressure drop, decreased prime volume, uniform blood flow distribution and avoidance of areas of stasis.

CO₂ Transfer Rate



Blood Side Pressure Drop



The oxygenator's proprietary graduated fiber bundle density technology

Cardiotomy/Venous Reservoir



Ergonomic, easy to use design Minimized blood contact with antifoam

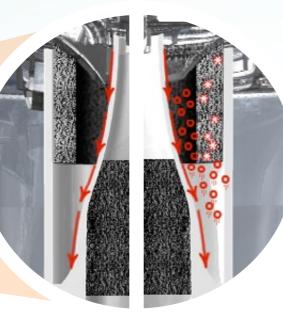
- 2.0 L/min maximum flow rate
- 1200 mL volume capacity
- 20 mL minimum operating volume without vortex formation
- Independent rotation of venous inlet and cardiotomy turret
- Port locations and spacing allow easy tubing attachment
- Vacuum assisted venous drainageready design
- Device and accessories do not contain DEHP

Minimized blood contact with antifoam



Flared venous return column (1/4" to 3/8") for:

 Reduced resistance to flow Minimized gaseous microemboli (GME) formation



Non-foaming blood does not contact antifoam at typical venous reservoir operating levels (<470 mL)

Foaming cardiotomy suction blood is defoamed and filtered before entering the venous reservoir

FFATURING THE Affinity Orbit[™] Holder System

- Quick and easy device attachment
- Adapts to any pump set-up
- Versatile device positioning and port orientation
- Holder arm, oxygenator arm and cardiotomy/venous reservoir pivot for custom device positioning
- Oxygenator rotates 360° for desired port orientation
- Facilitates reductions in circuit tubing length and associated prime volume
- Designed for use with future Medtronic perfusion technologies



Custom device positioning and orientation



- Affinity® Manifold Holder Holds a standard flat-plate stopcock manifold in either horizontal or vertical orientation
- · C-clamp for easy and stable attachment to both IV poles and larger diameter pump masts

Even greater positioning flexibility to adapt to your preferred circuit setup.

Quick set-up. Custom device positioning and orientation





Affinity Pixie[™] Oxygenation System

ORDERING INFORMATION

Oxygenation Systems			
Model Number	Description	Units/case	
CBP211	Hollow Fiber Oxygenator with Carmeda® BioActive Surface	4	
BBP211	Hollow Fiber Oxygenator with Balance™ Biosurface	4	
CBP241	Hollow Fiber Oxygenator and Cardiotomy/Venous Reservoir with Carmeda® BioActive Surface	4	
BBP241	Hollow Fiber Oxygenator and Cardiotomy/Venous Reservoir with Balance™ Biosurface	4	
Accessories and Holders			
Model Number	Description	Units/case	
ATP210	Affinity® Temperature Probe	1	
AUH2093	Affinity Orbit™ Holder System	1	
AMH2014	Affinity® Manifold Holder	1	

* Products are coated with Carmeda BioActive Surface, which is licensed from Carmeda AB for use only as part of an extracorporeal blood circulation system or circuit that includes an oxygenator or blood pump. Carmeda* is a registered trademark of Carmeda AB.

** Technology licensed under agreement from BioInteractions, Limited, United Kingdom. Balance™ is a trademark of Medtronic. Inc.

For information on other Medtronic technologies for extracorporeal circulation, blood processing and diagnostics, visit: www.perfusion.medtronic.com

The Affinity Pixie[™] Oxygenation System is indicated for use in an extracorporeal circulation circuit during cardiopulmonary bypass procedures up to 6 hours in duration. A strict anticoagulation protocol should be followed and anticoagulation should be routinely monitored during all procedures. The benefits of extracorporeal support must be weighed against the risk of systematic anticoagulation and must be assessed by the prescribing physician.

For a listing of indications, contraindications, precautions and warnings, please refer to the Instructions for Use which accompany each product.

SPECIFICATIONS

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Oxygenator	
Membrane type	Microporous polypropylene hollow fiber
Membrane surface area	0.67 m ²
Heat exchanger	Polyethylene Terephthalate (PET)
Static priming volume	48 mL
Recommended blood flow range	0.1 – 2.0 L/min
Maximum water pressure	1550 mmHg (206 kPa)
Maximum blood pressure	750 mmHg (100 kPa)
Venous blood inlet	1/4 in (0.6 cm)
Arterial blood outlet	1/4 in (0.6 cm)
Arterial sample port	Female luer
Recirculation port	Female luer
Pre-membrane purge port with one-way valve	1/16 in (0.16 cm), male luer
Biosurface options	Carmeda® BioActive Surface or Balance™ Biosurface
Accessories	
Tubing adapter	3/16 in (0.5 cm) (2)
Recirculation line	3/16 in (0.5 cm) (1)

Cardiotomy/Venous Reservoir

Reservoir volume capacity	1200 mL
Recommended blood flow range	0.1 – 2.0 L/min
Maximum cardiotomy flow rate	2.0 L/min
Minimum operating level	20 mL
Cardiotomy filter	30 µm nominal polyester depth filter
Venous inlet screen	64 µm
Venous return inlet, rotatable	1/4 in (0.6 cm)
Venous reservoir outlet	1/4 in (0.6 cm)
Venous inlet luer locks	2 luer locks
Cardiotomy inlet, step-up	3/16 in (0.5 cm) to 1/4 in (0.6 cm) (3)
Cardiotomy inlet	1/4 in (0.6 cm) (1)
Filtered luer locks to cardiotomy filter	4 luer locks
Nonfiltered luer locks	2 luer locks
Filtered quick prime port	1/4 in (0.6 cm)
Nonbarbed vent port	1/4 in (0.6 cm)
Maximum rated pressure	+ 20 mmHg/ - 100 mmHg
Positive/negative pressure relief valve	< 5 mmHg positive/ 60 mmHg vacuum
Biosurface options	Carmeda® BioActive Surface or Balance™ Biosurface
Accessories	
Tubing adapter	3/16 in (0.5 cm) (2)
Tubing adapter	3/8 in (1.0 cm) (2)
Flexible luer lock adapter	2 adapters
Sampling manifold	1 manifold assembly

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