

Medtronic

Perfusion systems and blood management Product catalog



autoLog IQ™ Autotransfusion System



MYOthem XP™

Affinity™ CP Centrifugal Pump



Affinity Fusion™
Oxygenation System



HMS Plus Hemostasis
Management System



Perfusion products

● Perfusion products

- Oxygenation systems
- Reservoirs
- Arterial filters
- Accessories and holders
- Centrifugal pumps
- Monitoring
- Tubing
- Connectors
- Blood management products
- CV equipment services and support
- Product number index



Risks associated with extracorporeal support during CPB may include, but are not limited to, blood loss, embolism, coagulopathy, activation (coagulation/complement), circulatory compromise, infection, ischemia, organ dysfunction, hemolysis, or hypovolemia.



Perfusion products

- **Oxygenation systems**

- **Affinity Fusion™ oxygenation system**

- Affinity NT™ oxygenation system

- Affinity Pixie™ oxygenation system

- Reservoirs

- Arterial filters

- Accessories and holders

- Centrifugal pumps

- Monitoring

- Tubing

- Connectors

Perfusion products – oxygenation systems

Affinity Fusion™ oxygenation system

Oxygenator

Min/max flow rate	1-7 L/min blood flow
Prime volume	260 mL
Inlet/outlet size	3/8" / 3/8"
Membrane	Hollow fiber polypropylene
Membrane surface area	2.5 m ²
Biosurface options	Cortiva™ or Balance™

Cardiotomy/venous reservoir for open system

Min/max flow rate	1-7 L/min venous blood flow 1-6 L/min cardiotomy blood flow
Volume	4,500 mL
Inlet/outlet size	1/2" or 3/8" / 3/8"
Biosurface options	Balance Biosurface



Affinity Fusion oxygenator with integrated arterial filter

CFN	Product	Units per case
CB841	Oxygenator with Cortiva BioActive Surface and cardiotomy/venous reservoir with Balance Biosurface	Tubing packs only
CB811	Oxygenator with Cortiva BioActive Surface	Tubing packs only
BB841	Oxygenator and cardiotomy/venous reservoir with Balance Biosurface	1 per case
BB811	Oxygenator with Balance Biosurface	1 per case
RCL841	Affinity Fusion recirculation line [‡]	12 per case

Accessories and holders for Affinity Fusion oxygenation system

CFN	Product	Units per case
ATP210	Affinity™ temperature probe	1 per case
AUH2093	Affinity Orbit™ holder system	1 per case
AUH2070	Affinity Orbit oxygenator arm replacement	1 per case
AMH2014	Affinity manifold holder	1 per case



[†]Using a 3/8" to 1/2" adapter provided with product.

[‡]No recirculation line is included with Affinity Fusion product.

Products with Balance Biosurface technology are licensed under agreement from BioInteractions, Limited, United Kingdom.



Perfusion products

- **Oxygenation systems**

- Affinity Fusion™ oxygenation system

- **Affinity NT™ oxygenation system**

- Affinity Pixie™ oxygenation system

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- Connectors

Perfusion products – oxygenation systems

Affinity NT™ oxygenation system

Oxygenator

Min/max flow rate	1-7 L/min blood flow
Prime volume	280 mL
Inlet/outlet size	3/8" / 3/8"
Membrane	Hollow fiber polypropylene
Membrane surface area	2.5 m ²
Biosurface options	Balance™ Biosurface or uncoated

Cardiotomy/venous reservoir

Min/max flow rate	1-7 L/min venous blood flow 1-6 L/min cardiotomy blood flow
Volume	4,000 mL
Inlet/outlet size	1/2" / 3/8"
Biosurface options	Balance Biosurface or uncoated



Affinity NT oxygenator

CFN	Model #	Product	Units per case
541B	541B	Oxygenator with Balance Biosurface and uncoated Cardiotomy/Venous Reservoir †	2 per case
511B	511B	Oxygenator with Balance Biosurface	Tubing packs only

†1/4" recirculation line with clamp included.

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Perfusion products

- **Oxygenation systems**

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- Affinity Pixie™ oxygenation system

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- Centrifugal pumps

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- Connectors

Perfusion products – oxygenation systems

Affinity NT™ oxygenation system

Accessories and holders for Affinity NT

CFN	Product	Units per case
61399401072	Affinity oxygenator holder (stand-alone) For use with Affinity NT oxygenators	1 per case
61399401093	Affinity oxygenator with integrated CVR holder For use with Affinity NT oxygenation systems	1 per case
TP	Temperature probe For use with Affinity NT oxygenation system	1 per case
AMH2014	Affinity manifold holder	1 per case
1S85R1	Affinity NT sampling manifold	5 per case
61399408733	Holder adaptor for vapor trap (Affinity NT reservoir)	1 per case



Perfusion products

● Oxygenation systems

- Affinity Fusion™ oxygenation system
- Affinity NT™ oxygenation system

● Affinity Pixie™ oxygenation system

- Reservoirs
- Arterial filters
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Perfusion products – oxygenation systems

Affinity Pixie™ oxygenation system

Oxygenator

Min/max flow rate	0.1-2.0 L/min blood flow
Prime volume	48 mL
Inlet/outlet size	1/4" / 1/4"
Membrane	Hollow fiber polypropylene
Membrane surface area	0.67 m ²
Biosurface options	Balance™ Biosurface
Included accessories	2 – tubing adapter – 3/16" 1 – recirculation line – 3/16"

Cardiotomy/venous reservoir

Min/max flow rate	0.1-2.0 L/min venous blood flow
Max cardiomy flow rate	2.0 L/min cardiomy blood flow
Volume	1,200 mL
Inlet/outlet size	1/4" / 1/4"
Biosurface options	Balance Biosurface
Included accessories	2 – tubing adapters – 3/16" 2 – tubing adapters – 3/8" 2 – flexible Luer lock adapters 1 – sampling manifold assembly



Perfusion products

● Oxygenation systems

- Affinity Fusion™ oxygenation system
- Affinity NT™ oxygenation system

● Affinity Pixie™ oxygenation system

- Reservoirs
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Perfusion products – oxygenation systems

Affinity Pixie™ oxygenation system

Affinity Pixie oxygenation system

CFN	Product	Units per case
BBP241	Affinity Pixie oxygenator and cardiotomy/venous reservoir with Balance™ Biosurface	4 per case
BBP211	Affinity Pixie oxygenator with Balance Biosurface	Tubing packs only

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Accessories and holders for Affinity Pixie oxygenation system

CFN	Product	Units per case
ATP210	Affinity™ temperature probe	1 per case
AUH2093	Affinity Orbit™ holder system	1 per case
AUH2070	Affinity Orbit oxygenator arm replacement	1 per case
AMH2014	Affinity manifold holder	1 per case



Perfusion products

- Oxygenation systems
- **Reservoirs**
 - **Cardiotomy venous reservoir and soft shell reservoir**
 - Cardiotomy reservoirs
 - Arterial filters
 - Accessories and holders
 - Centrifugal pumps
 - Monitoring
 - Tubing
 - Connectors

Perfusion products – reservoirs

Cardiotomy venous reservoir and soft shell reservoir

	MVR800	MVR1600
Style	Soft bag	Soft bag
Volume	800 mL	1,600 mL
Inlet/outlet size	1/2" / 3/8"	1/2" / 3/8"
Screen size	105 µm	105 µm
Biosurface options	as listed below	

Venous reservoirs – uncoated

CFN	Product	Units per case
MVR800	MVR™ venous reservoir bag 800 mL	6 per case
MVR1600	MVR venous reservoir bag 1,600 mL	6 per case



Venous reservoir with Cortiva™ BioActive surface

CFN	Product	Units per case
CBMVR1600	MVR venous reservoir bag with Cortiva BioActive Surface	6 per case

Accessories and holders for venous reservoir systems

CFN	Product	Units per case
1384	Temperature probe For use with MVR venous reservoir bag	1 per case
MVR-SH	Holder for MVR venous reservoir bags	1 per case
AMH2014	Affinity manifold holder	1 per case



Perfusion products

- Oxygenation systems
- **Reservoirs**
 - Cardiotomy venous reservoir and soft shell reservoir
 - **Cardiotomy reservoirs**
 - Arterial filters
 - Accessories and holders
 - Centrifugal pumps
 - Monitoring
 - Tubing
 - Connectors

Perfusion products – reservoirs

Cardiotomy reservoirs

	1351	EL2120	EL240	EL400	EL402	EL404
Style	Hard shell	Hard shell	Hard shell	Hard shell	Hard shell	Hard shell
Volume	2,600 mL	4,000 mL	4,000 mL	4,000 mL	4,000 mL	4,000 mL
# Ports	4	2	2	4	4	4
Screen size	20 µm	120 µm	40 µm	120 µm	20 µm	40 µm

Intersept™ cardiotomy reservoir

Used for cardiopulmonary bypass and post-op chest drainage

CFN	Product	Units per case
1351	Intersept cardiotomy reservoir with filter	6 per case



EL series blood collection reservoir – 2 port

Used for autotransfusion

CFN	Product	Units per case
EL2120	Blood collection reservoir	6 per case
EL240	Blood collection reservoir	6 per case



EL series blood collection reservoir – 4 port

Used for cardiopulmonary bypass and autotransfusion

CFN	Product	Units per case
EL400	Cardiotomy reservoir	6 per case
EL402	Cardiotomy reservoir	6 per case
EL404	Cardiotomy reservoir	6 per case



Accessory and holders for cardiotomy reservoir

CFN	Product	Units per case
1358	Swivel holder for 1351 intersept cardiotomy reservoir	1 per case
E302	Cardiotomy reservoir holder For use with EL reservoirs	1 per case



Perfusion products

- Oxygenation systems
- Reservoirs
- **Arterial filters**
 - **Affinity™ AF100 arterial filter**
 - Affinity™ arterial filter
 - Affinity Pixie™ arterial filter
 - Accessories and holders
 - Centrifugal pumps
 - Monitoring
 - Tubing
 - Connectors

Perfusion products – arterial filters

Affinity™ AF100 arterial filter

Arterial filter

Min/max flow rate	1-7 L/min blood flow
Prime volume	100 mL
Inlet/outlet size	3/8" / 3/8"
Screen size	30 µm
Biosurface options	Cortiva™ or Balance™



Arterial filter

CFN	Product	Units per case
CB851	Affinity AF100 arterial filter with Cortiva BioActive surface	Tubing packs only
BB851	Affinity AF100 arterial filter with Balance Biosurface	4 per case

Holders for AF100 arterial filter

CFN	Product	Units per case
HR4014	Arterial filter holder with extendable and rotatable arm For use with Affinity AF100 and Affinity Pixie™ arterial filters	1 per case
AUH4014	Arterial filter holder accessory For use with Affinity Orbit™ holder system (AUH2093) For use with Affinity AF100 and Affinity Pixie arterial filters	1 per case



Products with Balance Biosurface technology are licensed under agreement from BioInteractions, Limited, United Kingdom.



Perfusion products

- Oxygenation systems
- Reservoirs
- **Arterial filters**
 - Affinity™ AF100 arterial filter
 - **Affinity™ arterial filter**
 - Affinity Pixie™ arterial filter
- Accessories and holders
- Centrifugal pumps
- Monitoring
- Tubing
- Connectors

Perfusion products – arterial filters

Affinity™ arterial filter

Arterial filter

Max flow rate 7 L/min blood flow

Prime volume 212 mL

Inlet/outlet size 3/8" / 3/8"

Screen size	351	353
	38 µm	20 µm

Biosurface options uncoated



Adult arterial filter

CFN	Model #	Product	Units per case
61399401124	351	Affinity arterial filter with 38 µm screen	Tubing packs only
61399409434	353	Affinity arterial filter 20 µm Screen	Tubing packs only

Holder for Affinity arterial filter and Affinity VARD

CFN	Product	Units per case
61399401119	Affinity arterial filter holder – one piece	1 per case



Perfusion products

- Oxygenation systems
- Reservoirs
- **Arterial filters**
 - Affinity™ AF100 arterial filter
 - Affinity™ arterial filter
 - **Affinity Pixie™ arterial filter**
- Accessories and holders
- Centrifugal pumps
- Monitoring
- Tubing
- Connectors

Perfusion products – arterial filters

Affinity Pixie™ arterial filter

Arterial filter

Max flow rate	3.2 L/min blood flow
Prime volume	39 mL
Inlet/outlet size	¼" / ¼"
Screen size	30 µm
Biosurface options	Cortiva™ or Balance™ available in tubing packs



Affinity Pixie arterial filter

CFN	Product	Units per case
CB4014	Affinity Pixie pediatric arterial filter with Cortiva BioActive surface	Tubing packs only
BB4014	Affinity Pixie pediatric arterial filter with Balance Biosurface	Tubing packs only
S4014	Affinity Pixie pediatric arterial filter	4 per case

Holders for arterial filter

CFN	Product	Units per case
HR4014	Arterial filter holder For use with Affinity AF100 and Affinity Pixie arterial filters	1 per case
AUH4014	Arterial filter holder accessory For use with Affinity Orbit™ holder system (AUH2093) For use with Affinity AF100 and Affinity Pixie arterial filters	1 per case



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Perfusion products

- Oxygenation systems
- Reservoirs
- Arterial filters
- **Accessories and holders**
 - MYOtherm XP™
 - Hemocor HPH™
 - Centrifugal pumps
 - Monitoring
 - Tubing
 - Connectors

Perfusion products – accessories and holders

Accessories and holders for oxygenation systems

CFN	Product	Units per case	
AUH2093	Affinity Orbit™ holder system For use with Affinity Fusion™ and Affinity Pixie™ oxygenation systems	1 per case	
AUH2070	Affinity Orbit oxygenator arm replacement	1 per case	
AUH4014	Arterial filter holder accessory For use with Affinity Orbit holder system (AUH2093) For use with Affinity AF100 and Affinity Pixie arterial filters	1 per case	
61399401072	Affinity™ oxygenator holder (stand alone) For use with Affinity NT oxygenators	1 per case	
61399401093	Affinity oxygenator with integrated CVR holder For use with Affinity NT oxygenation systems	1 per case	
MVR-SH	Holder for MVR reservoir bag	1 per case	










Perfusion products

- Oxygenation systems
- Reservoirs
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Perfusion products – accessories and holders

Accessories and holders for oxygenation systems, cont'd.

CFN	Product	Units per case	
61399401119	Affinity™ arterial filter holder – one piece For use with Affinity filter models 351 and 353	1 per case	
HR4014	Arterial filter holder For use with Affinity AF100 and Affinity Pixie™ arterial filter	1 per case	
ATP210	Affinity temperature probe For use with Affinity Fusion and Affinity Pixie oxygenation systems	1 per case	
1384	Temperature probe For use with MVR™ venous reservoir bags	1 per case	
TP	Temperature probe For use with Affinity NT™ oxygenation system and MYOtherm XP™	1 per case	
5393	Sampling manifold accessory pack	4 per case	
1S85R1	Affinity NT sampling manifold	5 per case	
AMH2014	Affinity manifold holder	1 per case	
61399408733	Holder for vacuum assist vapor trap	1 per case	



Perfusion products

- Oxygenation systems
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- **Accessories and holders**
 - **MYOthem XP™**
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Perfusion products – accessories and holders

MYOthem XP™ with 4:1 blood to crystalloid

Cardioplegia delivery system

Recommended flow rate	0.5 L/min blood flow
Prime volume	44 mL
Inlet/outlet size	1/4" / 3/16"
Heat exchanger material	Stainless steel
Blood contact surface area	0.06 m ²
Outer filter screen size	150 µm
Pressure relief valve opening pressure	773 mm Hg
Biosurface options	Cortiva™ or uncoated



MYOthem XP blood cardioplegia delivery systems

CFN	Model #	Product	Units per case
61399404996	XP41	MYOthem XP cardioplegia delivery system	4 per case
61399405331	XP41B	MYOthem XP cardioplegia delivery system with bridge between blood and crystalloid lines	4 per case
61399401032	61399401032	MYOthem XP delivery line single table delivery system	4 per case
CB4Z25R	CB4Z25R	MYOthem XP delivery line with Cortiva BioActive surface single table delivery system	4 per case

Accessories and holders for MYOthem XP blood cardioplegia delivery systems

CFN	Product	Units per case
61399408182	MYOthem XP cardioplegia holder	1 per case
TP	Temperature probe For use with Affinity NT™ and MYOthem XP	1 per case



Perfusion products

- Oxygenation systems
- Reservoirs
- Arterial filters
- **Accessories and holders**
 - MYOtherm XP™
 - **Hemocor HPH™**
 - Centrifugal pumps
 - Monitoring
 - Tubing
 - Connectors

Perfusion products – accessories and holders

Hemocor HPH™ hemoconcentrators

Hemocor HPH hemoconcentrators

CFN	Product	Units per case
HPH-MINI	Hemocor HPH mini hemoconcentrator accessory connector package supplied	4 per case
HPH-JUNIOR	Hemocor HPH junior hemoconcentrator	4 per case
HPH-400	Hemocor HPH hemoconcentrator	12 per case
HPH-400TS	Hemocor HPH 400 hemoconcentrator with tubing and adapter set	12 per case
HPH-700	Hemocor HPH 700 hemoconcentrator	12 per case
HPH-700TS	Hemocor HPH 700 hemoconcentrator with tubing and adapter set	12 per case
HPH-1000	Hemocor HPH 1000 hemoconcentrator	12 per case
HPH-1000TS	Hemocor HPH 1000 hemoconcentrator with tubing and adapter set	12 per case
HPH-1400	Hemocor HPH 1400 hemoconcentrator	12 per case
HPH-1400TS	Hemocor HPH 1400 hemoconcentrator with tubing and adapter set	12 per case
HCH-1	Hemoconcentrator holder	



Hemocor HPH™ hemoconcentrators are distributed by Medtronic Perfusion Systems.
Hemocor HPH is a registered trademark of the Cantel Medical Company.



Perfusion products

- Oxygenation systems
- Reservoirs
- Arterial filters
- Accessories and holders
- Centrifugal pumps**
 - Bio-Console™
- Monitoring
- Tubing
- Connectors

Perfusion products – centrifugal pumps

Centrifugal pumps

AP40	
Style	Impeller
Prime volume	40 mL
Inlet/outlet size	3/8" inlet 3/8" outlet
Max speed	4,000 RPM
Max flow rate	10 L/min

Centrifugal blood pumps

CFN	Product	Units per case
CBAP40	Affinity™ CP centrifugal blood pump with Cortiva BioActive surface	4 per case
BBAP40	Affinity CP centrifugal blood pump Balance™ Biosurface	4 per case
AP40	Affinity CP centrifugal pump	4 per case

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Centrifugal blood pump flow probes

CFN	Product	Units per case
95244	DP38 adult Bio-Probe™ flow probe, 3/8"	12 per case
95134	DP38P pediatric Bio-Probe flow probe, 1/4"	12 per case



Perfusion products

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Perfusion products – centrifugal pumps

Centrifugal pumps

Centrifugal pump motor drives and accessories

CFN	Product	Units per case
AP40CAST	Pump adapter for Affinity™ CP pump to use with Sorin, Stockert, Terumo, and Sarns centrifugal pump drive units	1 per case
560A	External drive motor for Affinity CP	1 per case
HC150A	Emergency handcrank for Affinity CP	1 per case



Perfusion products

- Oxygenation systems
- Reservoirs
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- Accessories and holders
- **Centrifugal pumps**
 - **Bio-Console™**
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Perfusion products – centrifugal pumps

Bio-Console™ 560 extracorporeal blood pumping console

Console base unit

Height	31.88 cm (12.55")
Depth	43.02 cm (16.9")
Width	22.83 cm (8.99")
Weight	17.19 kg (37.9 lb)
Data output	1,200 to 192,000 baud, RS 232 Interface (Flow, RPM, pressure, alarm status)
Flow limit	-9.99 to +9.99 L/min ± (5% + 50 mL)
RPM limit	0 to 4,500 revolutions per minute (RPM)
Pressure limit	-300 to +999 mm Hg ± (5% + 5 mm Hg)
Voltage	100-240 VAC, 50-60 Hz, 3.25 amps
Battery	Two internal, 12 VDC lead-acid gel, rechargeable, 18 hours to 90% Capacity, 24 hours to 100% capacity.

Console user interface

Overall size	22.18 cm (8.7") wide by 34.5 cm (13.6") long
Screen size	26.41 cm (10.4") diagonal
Weight	4.26 kg (9.4 lb)



Perfusion products

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- **Centrifugal pumps**
 - **Bio-Console™**
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 - Tubing
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Perfusion products – centrifugal pumps

Bio-Console™

Bio-Console™ 560 extracorporeal blood pumping console

CFN	Product	Units per case
560BCS1	Bio-Console 560 pump speed controller with safety system module	1 per case

Contains:

- Console base unit and user interface (LCD screen)
- Standard user interface holder (M931707A001)
- Mounting bracket for TX50 probe (70910)
- Power cord and user interface cable
- Operators manual

Sold Separately:

- TX50 and TX50P flow transducer
- 560A external motor unit
- HC150A emergency handcrank
- HCS150 handcrank stand
- LS100 level sensor and LST level sensor tape

Contact Medtronic customer service or your local Medtronic sales representative for upgraded options to the existing Bio-Console 560 pump speed controller. Adding the safety system module to Bio-Console 560 console base unit requires field installation by Medtronic equipment service technician.



Perfusion products

- Oxygenation systems
- Reservoirs
- Arterial filters
- Accessories and holders
- **Centrifugal pumps**
 - **Bio-Console™**
 - Monitoring
 - Tubing
 - Connectors

Perfusion products – centrifugal pumps

Bio-Console™

Bio-Console 560 accessories

CFN	Product	Units per case
95184-001	TX50 adult flow transducer	1 per case
95185-001	TX50P pediatric flow transducer	1 per case
560A	External drive motor for Affinity™ CP	1 per case
HC150A	Emergency handcrank for Affinity CP	1 per case
HCS150	Handcrank stand	1 per case
LS100	Level sensor	1 per case
LST	Level sensor tape	1 per case



Perfusion products

- Oxygenation systems
- Reservoirs
- Arterial filters
- Accessories and holders
- Centrifugal pumps
- **Monitoring**
 - **BioTrend™ oxygen and hematocrit monitor**
- Tubing
- Connectors

Perfusion products – monitoring

BioTrend™ oxygen and hematocrit monitor

Technical information:

Oxygen saturation range	40-99%
Hematocrit range	16-38%
Display update	12 seconds
Power sources	AC power (100-240 VAC, 50-60 Hz, 13.2 W, 240mA), battery backup
Battery life	6 hours
Battery recharge	24 hours to charge when connected to AC power source. AC indicator flashes while charging and remains on when fully charged.
Pole mount	Vertical, ¾" to 2" diameter (1.91 cm to 5.08 cm)
Weight	13 lbs (5.9 Kg)
Dimensions	9 ¾" wide x 3 ⅝" high x 11" deep (24.77 cm x 9.22 cm x 27.94 cm)



Blood monitoring systems

CFN	Model #	Product	Units per case
95198-004	95198-004	BioTrend oxygenation saturation and hematocrit monitor	No longer available
PN-90483	90483	BioTrend fiber optic sensor cable	1 per case
TMC25	TMC25	TMC tri-optic measurement cell, ¼"	12 per case
TMC38	TMC38	TMC tri-optic measurement cell, ⅜"	12 per case
TMC50	TMC50	TMC tri-optic measurement cell, ½"	12 per case
1473R1	1473R1	TMC tri-optic measurement cell, ¼" with 6" extension	12 per case
1474R1	1474R1	TMC tri-optic measurement cell, ⅜" with 6" extension	12 per case
1475R1	1475R1	TMC tri-optic measurement cell, ½" with 6" extension	12 per case



Perfusion products

- Oxygenation systems
- Reservoirs
- Arterial filters
- Accessories and holders
- Centrifugal pumps
- Monitoring
- **Tubing**
- Connectors

Perfusion products – tubing



Priming lines, pressure lines, and suction valves

CFN	Product	Units per case
1R95R	Purge line with one-way valve and stopcock	24 per case
6310	Quick prime line, non-vented spike, 36" length 1/4" x 1/16" tubing, clamps	10 per case
6320	Double quick priming line, non-vented spike, 36" length 1/4" x 1/16" tubing, clamps	10 per case
5653	Transducer line with Luer lock	12 per case
1519-1	Transducer line no Luer lock	12 per case
9156R2	VRV100	20 per case
7260	Oxygen filter	25 per case



Perfusion products

- Oxygenation systems
- Reservoirs
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- Accessories and holders
- Centrifugal pumps
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Perfusion products – tubing

Medical tubing, class VI

Sterile pack precut length

CFN	Product	Units per case
3002	3/16" x 1/16" x 2'	10 per case
3006	3/16" x 1/16" x 6'	10 per case
3008	3/16" x 1/16" x 8'	10 per case
3102	1/4" x 1/16" x 2'	10 per case
3104	1/4" x 1/16" x 4'	10 per case
3106	1/4" x 1/16" x 6'	10 per case
3108	1/4" x 1/16" x 8'	10 per case
3110	1/4" x 1/16" x 10'	10 per case
3112	1/4" x 1/16" x 12'	10 per case
3204	1/4" x 3/32" x 4'	10 per case
3206	1/4" x 3/32" x 6'	10 per case
3208	1/4" x 3/32" x 8'	10 per case
3212	1/4" x 3/32" x 12'	10 per case
3504	3/8" x 3/32" x 4'	10 per case
3506	3/8" x 3/32" x 6'	10 per case
3508S	3/8" x 3/32" x 8'	10 per case
3510S	3/8" x 3/32" x 10'	10 per case
3602	1/2" x 3/32" x 2'	10 per case
3604	1/2" x 3/32" x 4'	10 per case
3606	1/2" x 3/32" x 6'	10 per case
3608	1/2" x 3/32" x 8'	10 per case
3610	1/2" x 3/32" x 10'	10 per case

Cortiva™ medical tubing (sterile pack precut length)

CFN	Product	Units per case
CB2993	6' 1/4" x 1/16" (6.4 mm x 1.6 mm)	5 per case
CB2994	6' 3/8" x 3/32" (9.5 mm x 2.4 mm)	5 per case
CB2995	6' 1/2" x 3/32" (12.7 mm x 2.4 mm)	5 per case

Note: All sterile tubing descriptions are read: ID x wall x length. Each length of tubing is 68 durometer, capped on both ends, and individually peel-pouched with ETO sterilized indicator on pouch.



Perfusion products

- Oxygenation systems
- Reservoirs
- Arterial filters
- Accessories and holders
- Centrifugal pumps
- Monitoring
- Tubing
- **Connectors**

Perfusion products – connectors



Connectors (sterile)

Straights without Luer lock

CFN	Product	Units per case
XA6010	1/4" x 1/4" (6.4 mm x 6.4 mm)	20 per case
6023	3/8" x 3/8" (9.5 mm x 9.5 mm)	20 per case
6025	1/2" x 1/2" (12.7 mm x 12.7 mm)	20 per case

Straights with Luer lock

CFN	Product	Units per case
6024	3/16" x 3/16" with Luer lock (4.8 mm x 4.8 mm)	20 per case
XA6061	1/4" x 1/4" with Luer lock (6.4 mm x 6.4 mm)	20 per case
XA6062	3/8" x 3/8" with Luer lock (9.5 mm x 9.5 mm)	20 per case
XA6063	1/2" x 1/2" with Luer lock (12.7 mm x 12.7 mm)	20 per case

Reducers without Luer lock

CFN	Product	Units per case
6009	3/16" x 1/4" (4.8 mm x 6.4 mm)	20 per case
6011	1/4" x 3/8" (6.4 mm x 9.5 mm)	20 per case
6013	3/8" x 1/2" (9.5 mm x 12.7 mm)	20 per case
6017 [†]	3/8" x 5/8" (9.5 mm x 15.9 mm)	10 per case

[†]Not available in dispenser cartons.

Note: All sterile tubing descriptions are read: ID x wall x length. Each length of tubing is 68 durometer, capped on both ends, and individually peel-pouched with ETO sterilized indicator on pouch.



Perfusion products

- Oxygenation systems
- Reservoirs
- Arterial filters
- Accessories and holders
- Centrifugal pumps
- Monitoring
- Tubing
- Connectors**

Perfusion products – connectors

Connectors (sterile), cont'd.

Reducers with Luer lock

CFN	Product	Units per case
XA6051	¼" x ⅜" with Luer lock (6.4 mm x 9.5 mm)	20 per case
6020	⅜" x ½" with Luer lock (9.5 mm x 12.7 mm)	20 per case

Equal "Ys"

CFN	Product	Units per case
6033	⅜" x ⅜" x ⅜" (4.8 mm x 4.8 mm x 4.8 mm)	20 per case
6030	¼" x ¼" x ¼" (6.4 mm x 6.4 mm x 6.4 mm)	20 per case
6031	⅜" x ⅜" x ⅜" (9.5 mm x 9.5 mm x 9.5 mm)	20 per case
6035	½" x ½" x ½" (12.7 mm x 12.7 mm x 12.7 mm)	20 per case
6006 [†]	¼" x ¼" x ¼" with Luer lock (6.4 mm x 6.4 mm x 6.4 mm)	20 per case
6007 [†]	⅜" x ⅜" x ⅜" with Luer lock (9.5 mm x 9.5 mm x 9.5 mm)	20 per case
6015 [†]	½" x ½" x ½" with Luer lock (12.7 mm x 12.7 mm x 12.7 mm)	20 per case

Unequal "Ys" without Luer lock

CFN	Product	Units per case
6036	3/8" x ¼" x ¼" (9.5 mm x 6.4 mm x 6.4 mm)	20 per case
6037	¼" x ⅜" x ⅜" (6.4 mm x 9.5 mm x 9.5 mm)	20 per case
6040	1/2" x 3/8" x 3/8" (12.7 mm x 9.5 mm x 9.5 mm)	20 per case
6041	⅜" x ⅜" x ¼" (9.5 mm x 9.5 mm x 6.4 mm)	20 per case

Straight connectors with double Luer locks

CFN	Product	Units per case
1M58R	Sterile ¼" x ¼"	25 per case
1M59R	Sterile ⅜" x ⅜"	25 per case

[†]Not available in dispenser cartons.

Supplied in dispenser cartons (10 packages per carton, 2 cartons per case) except where noted.

Note: All "Y" connector descriptions are read: base, arm, arm.

Connectors may be sold in sleeve quantities of 20 or 25 as packaged.



Perfusion products

- Oxygenation systems
- Reservoirs
- Arterial filters
- Accessories and holders
- Centrifugal pumps
- Monitoring
- Tubing
- Connectors**

Perfusion products – connectors

Cortiva™ coated connectors (sterile)

CFN	Product	Units per case
CB4626	¼" x ¼" x ¼" (6.4 mm x 6.4 mm x 6.4 mm)	10 per case
CB4628	⅜" x ⅜" x ⅜" (9.5 mm x 9.5 mm x 9.5 mm)	10 per case

Luer locks

CFN	Product	Units per case
CB4615	¼" x ⅜" with Luer lock (6.4 mm x 4.8 mm)	10 per case
CB4616	½" x ⅜" with Luer lock (12.7 mm x 9.5 mm)	10 per case
CB4617	⅜" x ⅜" with Luer lock (4.8 mm x 4.8 mm)	10 per case
CB4618	⅜" x ⅜" x ⅜" with Luer lock (9.5 mm x 9.5 mm x 9.5 mm)	10 per case
CB4620	¼" x ⅜" with Luer lock (6.4 mm x 9.5 mm)	10 per case
CB4621	½" x ½" with Luer lock (12.7 mm x 12.7 mm)	10 per case
CB4623	⅜" x ⅜" with Luer lock (9.5 mm x 9.5 mm)	10 per case
CB4625	¼" x ¼" x ¼" with Luer lock (6.4 mm x 6.4 mm x 6.4)	10 per case
CB4630	¼" x ¼" with Luer lock (6.4 mm x 6.4 mm)	10 per case

Straights

CFN	Product	Units per case
CB4629	¼" x ¼" (6.4 mm x 6.4 mm)	10 per case
CB4624	⅜" x ⅜" (9.5 mm x 9.5 mm)	10 per case
CB4634	½" x ½" (12.7 mm x 12.7 mm)	10 per case



Perfusion products

- Oxygenation systems
- Reservoirs
- Arterial filters
- Accessories and holders
- Centrifugal pumps
- Monitoring
- Tubing
- Connectors**

Perfusion products – connectors

Cortiva™ coated connectors (sterile)

Reducers

CFN	Product	Units per case
CB4631	3/16" x 1/4" (4.8 mm x 6.4 mm)	10 per case
CB4632	1/4" x 3/8" (6.4 mm x 9.5 mm)	10 per case
CB4633	3/8" x 1/2" (9.5 mm x 12.7 mm)	10 per case

"Ys"

CFN	Product	Units per case
CB4613	1/2" x 1/2" x 1/2" (12.7 mm x 12.7 x 12.7 mm)	10 per case
CB4614	3/8" x 1/4" x 1/4" (9.5 mm x 6.4 mm x 6.4 mm)	10 per case
CB4622	1/2" x 3/8" x 3/8" (12.7 mm x 9.5 mm x 9.5 mm)	10 per case

Connector dispenser holder

CFN	Product	Units per case
0131704-1	Wall-mounted holder – holds up to 6 connectors Dispenser cartons	1 per case



Blood management products

- Perfusion products
- **Blood management products**
 - HMS Plus hemostasis management system
 - ACT Plus™ automated coagulation timer
 - autoLog IQ™ autotransfusion system
 - Blood management products
- CV equipment services and support
- Product number index



ACT Plus™ Automated Coagulation Timer



HMS Plus Hemostasis Management System



autoLog IQ™ Autotransfusion System



Blood management products

- **HMS Plus hemostasis management system**
- ACT Plus™ automated coagulation timer
- autoLog IQ™ autotransfusion system
- Blood management products

Blood management products

HMS Plus hemostasis management system

Instrument

Height	40 cm (15.75")
Depth	38 cm (15.0")
Width	33 cm (13.0")
Weight	15.47 kg (34.1 lb)
Serial port data	19200 baud, 8 data bits, 1 stop bit, no parity
Voltage	100-240 V ~ single phase
Frequency	50-60 Hz
Maximum current	1.2/0.6 A (100-120/200-240)

Cartridges

Tests	ACT, heparin dose response (HDR), heparin/protamine titration (HPT)
Channels	2-channel ACT, 6 channel HDR, 4 and 6 channel HPT
Controls	Liquid, electronic

Refurbished equipment available on a limited basis. Please contact your local sales representative for availability.



Blood management products

- **HMS Plus hemostasis management system**
- ACT Plus™ automated coagulation timer
- autoLog IQ™ autotransfusion system
- Blood management products

Blood management products

HMS Plus hemostasis management system

HMS Plus system

CFN	Product	Units per case
30514	HMS Plus system	1 per case
R30514	Refurbished: HMS Plus system	1 per case

HMS plus cartridges

4 channel heparin assay includes 9 syringes and 9 blunt tip needles

CFN	Product	Units per case
304-01POR	Red 0.0-0.9 mg/kg	9 per case
304-02POR	Yellow 0.0-1.5 mg/kg	9 per case
304-03POR	Tan 1.5-3.0 mg/kg	9 per case
304-04POR	Silver 2.0-3.5 mg/kg	9 per case
304-05POR	Blue 2.5-4.0 mg/kg	9 per case
304-06POR	Green 3.5-5.0 mg/kg	9 per case
304-10POR	Purple 4.5-6.0 mg/kg	9 per case



Blood management products

- **HMS Plus hemostasis management system**
- ACT Plus™ automated coagulation timer
- autoLog IQ™ autotransfusion system
- Blood management products

Blood management products

HMS Plus hemostasis management system

HMS plus cartridges

6 channel heparin assay includes 9 syringes and 9 blunt tip needles

CFN	Product	Units per case
304-07POR	Orange 0.0-2.5 mg/kg	9 per case
304-08POR	Gold 1.5-4.0 mg/kg	9 per case
304-09POR	White 2.5-5.0 mg/kg	9 per case
304-11POR	Black 3.5-6.0 mg/kg	9 per case



Heparin dose response

CFN	Product	Units per case
304-20POR	Heparin dose response (HDR) 6 channel	9 per case



Activated clotting time

CFN	Product	Units per case
304-30	High range (HR- ACT) 2-channel	18 per case



HMS plus coagulation controls

Heparin assay controls, 10 vials control, 10 vials deionized water per box

CFN	Product	Units per case
306-01POR	Red/yellow	10 of each
306-02POR	Tan/silver	10 of each
306-03POR	Blue/gold	10 of each
306-04POR	Green/white	10 of each
306-05POR	Orange	10 of each
306-09POR	Purple/black	10 of each



Blood management products

- **HMS Plus hemostasis management system**
- ACT Plus™ automated coagulation timer
- autoLog IQ™ autotransfusion system
- Blood management products

Blood management products

HMS Plus hemostasis management system

HMS plus CLOTtrac™ coagulation controls for HR-ACT
15 vials control and 15 vials deionized water per box

CFN	Product	Units per case
550-07	CLOTtrac HR coagulation control Verify performance of HMS Plus HR-ACT Cartridges (304-30) and the HMS Plus	15 of each
550-08	CLOTtrac HR abnormal coagulation control Verify performance of HMS Plus HR-ACT Cartridges (304-30) and the HMS Plus	15 of each

HMS Plus accessories

CFN	Product	Units per case
HMSPLUSCC	Bar code scanner	1 per case
300-01	Monoject™ syringes, 3 mL	100 per case
300-02	Blunt needles, 1 7/16", 19 GA	100 per case
313-51	HEPtrac™ electronic control for HMS Plus	1 per case
300-04	Thermal printer paper	5 rolls per case
300-10	Temperature verification cartridge for the HMS Plus	1 per case
300-19	HMS Plus cleaning kit	1 per case
30032	HMS Plus cart	1 per case
31506	HMS Plus salvage reservoir cups	100 per case
313-50	HEPline kit	1 per case
HMSPLUSEDM	HMS Plus and ACT Plus external data manager software	1 per case



Blood management products

- HMS Plus hemostasis management system
- **ACT Plus™ automated coagulation timer**
- autoLog IQ™ autotransfusion system
- Blood management products

Blood management products

ACT Plus™ automated coagulation timer

Instrument

Height	27 cm (11.0")
Depth	33 cm (13.0 in)
Width	20 cm (8.0")
Weight	5.2 kg (11.5 lb)
Serial port data	19200 baud, 8 data bits, 1 stop bit, no parity
Voltage	100-240 V ~ single phase
Frequency	50-60 Hz
Maximum current	1.0 A (100-240)

Cartridges

Tests	HR-ACT, LR-ACT, Heparinase test cartridge (HTC), Recalcified ACT (RACT)
Controls	Liquid, electronic

Equipment no longer available for order.



Blood management products

- HMS Plus hemostasis management system
- **ACT Plus™ automated coagulation timer**
- autoLog IQ™ autotransfusion system
- Blood management products

Blood management products

ACT Plus™ automated coagulation timer

ACT disposable cartridges – 2 channel

CFN	Product	Units per case
402-01	Low range activated clotting time (LR ACT) – fresh whole blood test for therapeutic heparin monitoring at concentrations of 0.0-1.5 u/mL	50 per case
402-02	Recalcified activated clotting time (RACT) – for use with citrated whole blood samples at concentrations of 0.0-1.5 u/mL	50 per case
402-03	High range activated clotting time (HR ACT) – fresh whole blood test for CV surgery, PTCA, or vascular surgery, where heparin concentration exceeds 1.0 u/mL	50 per case
402-07	Heparinase test cartridge (HTC) – fresh whole blood test used to identify the presence of heparin in the patient's blood sample	20 per case



Blood management products

- HMS Plus hemostasis management system
- **ACT Plus™ automated coagulation timer**
- autoLog IQ™ autotransfusion system
- Blood management products

Blood management products

ACT Plus™ automated coagulation timer

ACT CLOTtrac™ coagulation controls

15 vials control and 15 vials deionized water included

CFN	Product	Units per case
550-01	CLOTtrac CWB coagulation control – normal control for the LR ACT and RACT cartridges and the ACT Plus instrument. Calcium chloride (#550-11) required when the CLOTtrac CWB coagulation control is used with the LR ACT cartridge	15 of each
550-07	CLOTtrac HR coagulation control – normal control for the HR ACT and HTC cartridges and the ACT Plus instrument	15 of each
550-08	CLOTtrac HR abnormal coagulation control – abnormal control for the HR-ACT cartridge and the ACT Plus instrument	15 of each
550-09	CLOTtrac LR ACT abnormal coagulation control – abnormal control for the LR ACT cartridge and the ACT Plus instrument. Calcium chloride (#550-11) required with the CLOTtrac LR abnormal coagulation control	15 of each
550-10	CLOTtrac RACT abnormal coagulation control – abnormal control for the RACT cartridge and the ACT Plus instrument	15 of each
550-12	CLOTtrac HTC coagulation control – heparinized control for the heparinase (HTC) cartridge and the ACT Plus instrument	15 of each
550-11	Calcium chloride 5 mL vial – for use with the normal (CWB) and abnormal controls and the LR ACT cartridge	1 vial



Blood management products

- HMS Plus hemostasis management system
- **ACT Plus™ automated coagulation timer**
- autoLog IQ™ autotransfusion system
- Blood management products

Blood management products

ACT Plus™ automated coagulation timer

ACT accessories

CFN	Product	Units per case
ACTSC	ACT Plus bar code scanner	1 per case
ACTFLHR	High range ACT easy fill accessory	100 per case
ACTFILLR	Low range ACT easy fill accessory	100 per case
300-02	Blunt needles, 1 7/16", 19 Ga	100 per case
31363	ACTtrac™ electronic control for ACT Plus	1 per case
303-58	Actuator cleaning kit	1 per case
313-11	Temperature verification cartridge for ACT Plus	1 per case
313-50	HEPline kit	1 per case



Blood management products

- HMS Plus hemostasis management system
- ACT Plus™ automated coagulation timer
- **autoLog IQ™ autotransfusion system**
- Blood management products

Blood management products

autoLog IQ™ autotransfusion system

Instrument	
Height	80.5 cm (31.7")
Depth	42.5 cm (16.7")
Width	69 cm (27.2")
Weight	50 kg (110 lb)
Voltage	100-240 V ~ single phase
Frequency	50-60 Hz

Speed and flow rate	
Centrifuge	0-10,000 RPM
Pump	0-1,000 mL/min
Vacuum	-10 mm Hg to -370 mm Hg



autoLog IQ autotransfusion system

CFN	Product	Units per case
ATLGIQ	Items included with the device: IV pole, reservoir holder, quick setup guide video – USB card, quick setup guide booklet, USB flash drive, user manual, power cord	1 per case

autoLog Wash Kit

Consists of 1 centrifuge bowl and harness set with quick disconnect holding bag, 1-10 liter waste bag

CFN	Product	Units per case
ATL2001	Wash kit including 135 mL centrifuge bowl	6 per case



Blood management products

- HMS Plus hemostasis management system
- ACT Plus™ automated coagulation timer
- **autoLog IQ™ autotransfusion system**
- Blood management products

Blood management products

autoLog IQ™ autotransfusion system

autoLog one-source packs

CFN	Product	Units per case
ATLS21	Includes one each of: ATL2001 Wash kit including 135 mL centrifuge bowl BT725 Suction/anticoagulant line EL2120 4 liter hardshell blood collection reservoir with 120 µm filter, 2 inlet ports	4 per case
ATLS24	Includes one each of: ATL2001 Wash kit including 135 mL centrifuge bowl BT725 Suction/anticoagulant line EL240 4 liter hardshell blood collection reservoir with 40 µm filter, 2 inlet ports	4 per case
ATLS00	Includes one each of: ATL2001 Wash kit including 135 mL centrifuge bowl BT725 Suction/anticoagulant line EL400 4 liter hardshell cardiotomy reservoir with 120 µm filter; ¼" and ⅜" prime ports, 4 inlet ports	4 per case
ATLS02	Includes one each of: ATL2001 Wash kit including 135 mL centrifuge bowl BT725 Suction/anticoagulant line EL402 4 liter hardshell cardiotomy reservoir with 20 µm filter; ¼" and ⅜" prime ports, 4 inlet ports	4 per case
ATLS04	Includes one each of: ATL2001 Wash kit including 135 mL centrifuge bowl BT725 Suction/anticoagulant line EL404 4 liter hardshell cardiotomy reservoir with 40 µm Filter; ¼" and ⅜" prime ports, 4 inlet ports	4 per case
STANDBY 1	Includes one each of: EL240 4 liter hardshell blood collection reservoir with 40 micron filter, 2 inlet ports BT725 Suction/anticoagulant line BT133 4' vacuum line	4 per case



Blood management products

- HMS Plus hemostasis management system
- ACT Plus™ automated coagulation timer
- **autoLog IQ™ autotransfusion system**
- Blood management products

Blood management products

autoLog IQ™ autotransfusion system

autoLog hardware accessories

CFN	Product	Units per case
ATLHBIQ	autoLog hardshell reservoir bracket	1 per case
BCSIQ	Bar code scanner	1 per case



Blood management products

- HMS Plus hemostasis management system
- ACT Plus™ automated coagulation timer
- autoLog IQ™ autotransfusion system
- **Blood management products**

Blood management products

Blood management products

Autologous blood transfer bags

CFN	Product	Units per case
ATBAG300	300 mL autologous blood transfer bag <i>U.S. only</i>	48 per case
ATBAG600	600 mL autologous blood transfer bag <i>U.S. only</i>	48 per case
ATBAG1000	1,000 mL autologous blood transfer bag <i>U.S. only</i>	32 per case
BT1000SC	1,000 mL holding bag	24 per case

Suction lines

CFN	Product	Units per case
BTC93	Suction and anticoagulant line including "Y" adaptor with ¼" outlet lines	6 per case
BTC96	Suction and anticoagulant line with step-down ⅜"-¼" adaptor	6 per case
BT725	Suction and anticoagulant line	10 per case

Reservoir adaptors

CFN	Product	Units per case
BT926	Reservoir "Y" adaptor with ¼" outlet lines	20 per case
BT946	Straight step-down ⅜"-¼" connector	20 per case
BT920	Tandem reservoir "Y" assembly	10 per case



Blood management products

- HMS Plus hemostasis management system
- ACT Plus™ automated coagulation timer
- autoLog IQ™ autotransfusion system
- **Blood management products**

Blood management products

Blood management products

Reservoirs

CFN	Product	Units per case
EL2120	4 liter hardshell blood collection reservoir with 120 µm filter, 2 inlet ports	6 per case
EL240	4 liter hardshell blood collection reservoir with 40 µm filter, 2 inlet ports	6 per case
EL400	4 liter hardshell cardiotomy reservoir with 120 µm filter, ¼" and ⅜" prime ports, 4 inlet ports	6 per case
EL402	4 liter hardshell cardiotomy reservoir with 20 µm filter, ¼" and ⅜" prime ports, 4 inlet ports	6 per case
EL404	4 liter hardshell cardiotomy reservoir with 40 µm filter, ¼" and ⅜" prime ports, 4 inlet ports	6 per case



Reservoir holders

CFN	Product	Units per case
E302	IV pole reservoir holder For use with all EL series hardshell reservoirs	1 per box
ATLHBIQ	autoLog IQ™ hardshell reservoir bracket holder	1 per box



Accessories

CFN	Product	Units per case
BT945	Transfer spike with 3-way stopcock	20 per case
ELUWB1	10 L universal waste bag	10 per case
BT133	4' vacuum line	10 per case
BT133F	4' vacuum line with filter	10 per case



CV equipment services and support

- Perfusion products
- Blood management products
- **CV equipment services and support**
- Product number index



CV equipment services and support

UPTIME Equipment Care Program offerings



When a patient undergoes a procedure, you want to be confident that everything possible has been done to ensure your equipment is performing optimally. Maintaining today's critical, complex, and interconnected devices can be a challenge, requiring specialized knowledge. That's where Medtronic comes in with three innovative tiers of service through the UPTIME Equipment Care Program.

UPTIME Equipment Care Program offerings

- Perfusion products
- Blood management products
- **CV equipment services and support**
- Product number index



1 Complete Care Plus

Our ultimate offering in equipment care, with hands-on clinical guidance

With Complete Care Plus, you get top-of-the-line equipment care, with ultra-fast response time for service calls, plus a robust clinical support package.

- 2-hour non-emergency service call response time during normal business hours
- Online clinical training and education
- Unlimited phone clinical and service technical support
- Complete equipment care and more



2 Complete Care

Full-on equipment care with robust technical support

Complete Care gives you the timesaving and risk-mitigating advantages of comprehensive equipment care, from installation to resolution.

- 2-hour non-emergency service call response time during normal business hours
- Unlimited phone service technical support
- Planned maintenance, when it's convenient for your schedule
- Asset management and service history
- Complete equipment care and more



CV equipment services and support

UPTIME Equipment Care Program offerings



UPTIME Equipment Care Program offerings

3 Proactive Care



Equipment care that complements your resources to maximize uptime

Focused on preventing issues before they arise, Proactive Care gives you the expert, specialized maintenance support that today's complex equipment requires.

- Planned maintenance, when it's convenient for your schedule
- Non-emergency service call response time within one business day
- Asset management and service history
- Discounted rates on other services

- Perfusion products
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We're committed to a high standard of services and support.

To learn more about our our UPTIME Equipment Care Program and service value: Visit us on the web: medtronic.com/uptime

Contact us:
Phone: 1-800-433-4311
Email: rs.uptime@medtronic.com



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Risks associated with extracorporeal support during CPB may include, but are not limited to, blood loss, embolism, coagulopathy, activation (coagulation/complement), circulatory compromise, infection, ischemia, organ dysfunction, hemolysis, or hypovolemia.

CAUTION: Federal law (USA) restricts this device to sale by or on the order of a physician. For a complete listing of indications, contraindications, precautions, and warnings, please refer to the Instructions for Use, which accompany each product. Not all products are approved in every geography.

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