

CAPIOX[®] FX Advance

Oxygenator with Integrated Arterial Filter
and Hardshell Reservoir

Enhanced flow dynamics.
Expanded patient range.





Advance to the next level.

Terumo has led the way in oxygenator innovation and quality for more than 30 years and was the first company to manufacture its own hollow fiber.

The new CAPIOX® FX Advance Oxygenator advances your oxygenator to the next level by enhancing flow dynamics,¹ resulting in lower minimum operating levels and increased maximum blood flow rates. Now, you can expand your options and choose a smaller, lower prime oxygenator for even more patients.

Working together with your surgery team, Terumo Cardiovascular Group helps save lives every day. That's why we never compromise quality. And it's why we constantly strive to deliver new technologies that advance patient outcomes and deliver exceptional clinical value.

Choose the oxygenator that expands your options and advances patient outcomes. Choose the CAPIOX FX Advance Oxygenator.

Terumo Cardiovascular Group





APPROX.(mL)

terumo-cvgroup.com
terumo-europe.com

Introducing the CAPIOX® FX Advance Oxygenator with improved flow dynamics.

Patients come in all shapes and sizes — so do CAPIOX FX Oxygenators. Now, you can expand the use of CAPIOX FX Oxygenators through the enhanced flow dynamics offered on the CAPIOX Advance Hardshell Reservoir.

Advancements include an increased blood flow rate on the 3,000 mL reservoir — available on the CAPIOX FX15 Advance Oxygenator — and a lower minimum operating level on the 4,000 mL reservoir — available on the CAPIOX FX15 and FX25 Advance Oxygenators.

3,000 mL Hardshell Reservoir

Advantage:

Increased maximum blood flow to 5 L/min on the CAPIOX FX15 Advance Oxygenator*

Benefit:

Flexibility to use on a wider range of patients and the lowest prime adult oxygenator available today

*Use of Vacuum Assisted Venous Drainage may be required to achieve flow rate of 5 L/min.

4,000 mL Hardshell Reservoir

Advantage:

Reduced minimum operating level of 150 mL on the CAPIOX FX15 and FX25 Advance Oxygenators

Benefit:

Further helps minimize hemodilution with the lowest-prime full-size oxygenator²



CAPIOX FX15
Advance Oxygenator

Advancing Outcomes

Built around Terumo CV Group's integrated arterial filter with self-venting technology, the CAPIOX® FX Advance Oxygenator helps clinicians reduce prime volume and lower hemodilution.² The design of the CAPIOX FX Advance Oxygenator contributes to fewer blood transfusions⁴ and reduced hospital costs.²

Low prime volume oxygenators reduce hemodilution, blood transfusions and the risk of Acute Kidney Injury

It is well known, with a high level of evidence (Class 1 level a), that excessive hemodilution during cardiopulmonary bypass (CPB) can lead to an increased incidence of red blood cell transfusions and other patient risks, including post-operative Acute Kidney Injury (AKI).

A recent study demonstrates that reducing hemodilution with a low prime volume oxygenator, by as little as 150 mL, is associated with fewer blood transfusions and reduced risk of post-operative AKI.³

CAPIOX FX Advance Oxygenators allow you to minimize hemodilution, resulting in fewer blood transfusions and may decrease the risk of AKI.



Curved venous inlet enhances flow dynamics



3/8" - 1/4" adapters for the CAPIOX FX15 Oxygenator with 3,000 mL reservoir

**Enhanced flow dynamics.
Expanded patient range.**

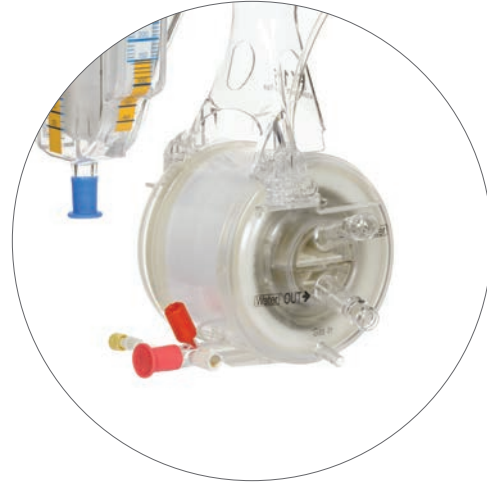


Hardshell Reservoir

Enhanced flow dynamics

- Improved flow dynamics reduces blood turbulence and enhances gaseous microemboli removal
- Rotating, curved venous inlet enhances ease-of-use
- Increased maximum blood flow to 5 L/min on the CAPIOX FX15 Advance Oxygenator, with 3,000 mL reservoir, for use on a wider range of patients*
- Decreased minimum operating level of 150 mL on the CAPIOX FX15 and FX25 Advance Oxygenators, with the 4,000 mL reservoir, reduces hemodilution
- Elongated shape provides stable, smooth blood flow path
- Volume indicators on three sides enhances visibility at all levels and angles
- Built-in positive pressure relief valve increases convenience and assurance

*Use of Vacuum Assisted Venous Drainage may be required to achieve flow rate of 5 L/min.



CAPIOX FX Oxygenator

Proven performance and fully integrated arterial filter

- Features self-venting technology
- Low priming volume, high gas exchange and low pressure drop are optimally balanced for superb performance
- Terumo's exclusive hollow fiber technology enables total process control from raw materials to finished product
- Woven fiber bundle design provides consistent and high-performance gas exchange
- Less foreign surface area contact minimizes systemic inflammatory response
- Multiple blood outlet port configurations allow easy access and circuit flexibility



West Outlet Port

Oxy inlet on right when outlet is facing away from user.



East Outlet Port

Oxy inlet on left when outlet is facing away from user.

CAPIOX® FX15 Advance Oxygenator

The CAPIOX FX15 Advance Oxygenator significantly lowers prime volume for patients at risk for a higher rate of blood transfusions. With the CAPIOX FX15 Advance Oxygenator, smaller patients can have surgery with an oxygenator that best fits their unique metabolic needs. And now, the increased blood flow rate available with the 3,000 mL hardshell reservoir expands the use of a smaller oxygenator to more patients.

- Maximum blood flow: 5.0 L/min
- Oxygenator priming volume: 144 mL
- Reservoir storage capacity:
 - 3,000 mL: 70 mL minimum operating level
 - 4,000 mL: 150 mL minimum operating level



*FX15 Advance
4,000 mL*



*FX15 Advance
3,000 mL*

CAPIOX FX25 Advance Oxygenator

The design of the CAPIOX FX25 Advance Oxygenator provides a full-size oxygenator with a low prime volume, and the hardshell reservoir offers a reduced minimum operating level.

- Maximum blood flow: 7.0 L/min
- Oxygenator priming volume: 260 mL
- Reservoir storage capacity: 4,000 mL
- Minimum operating level: 150 mL



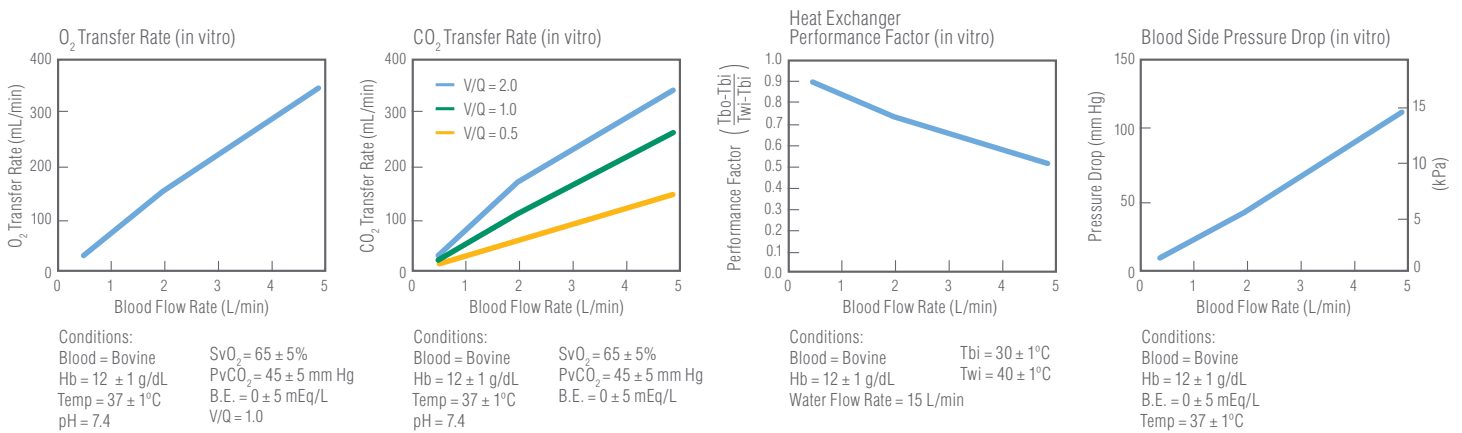
CAPIOX FX05 Oxygenator

The CAPIOX FX05 Oxygenator offers exceptionally low prime volume and high performance.⁵ Your most delicate patients deserve the lowest prime volume possible.

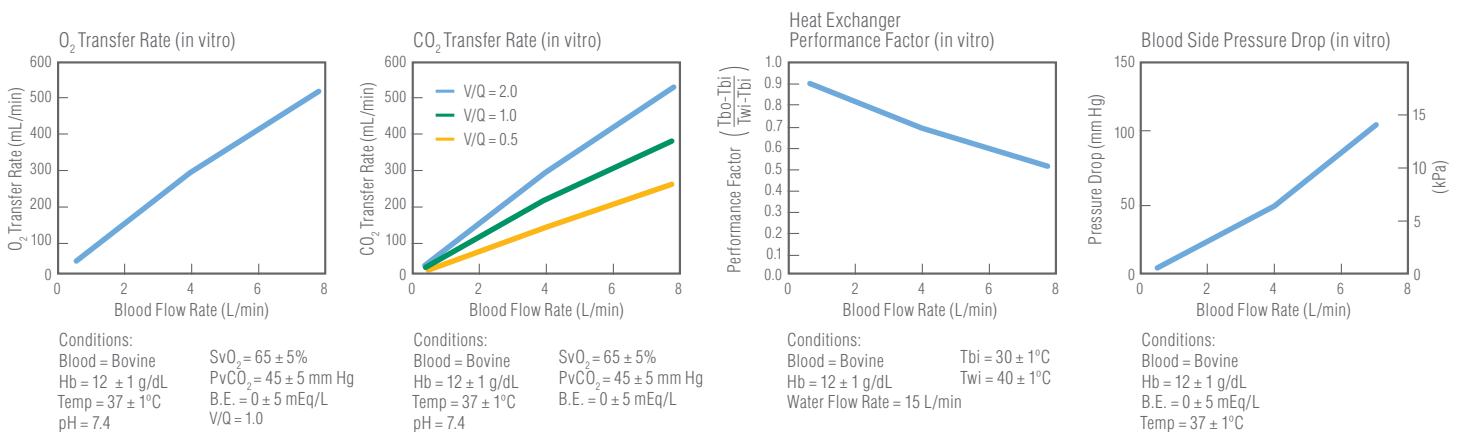
- Maximum blood flow: 1.5 L/min
- Oxygenator priming volume: 43 mL
- Reservoir storage capacity: 1,000 mL
- Minimum operating level: 15 mL



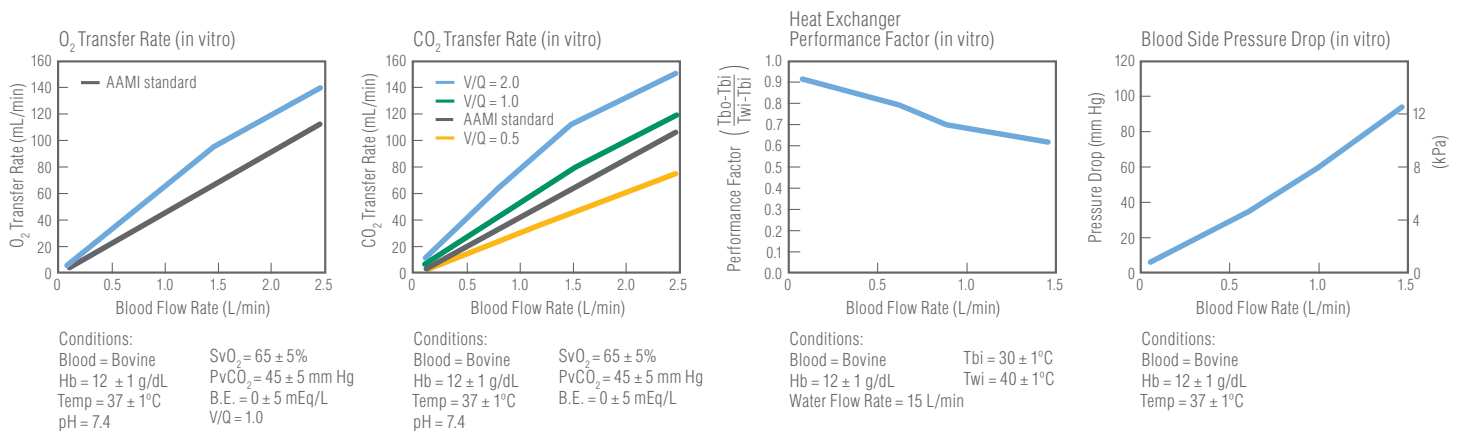
CAPIOX® FX15 Advance Oxygenator Performance Data¹



CAPIOX FX25 Advance Oxygenator Performance Data¹



CAPIOX FX05 Oxygenator Performance Data¹



Holder Systems



XX*CXH18R/801804



XX*XH032



XX*CXH15



XX*CXH25F



XX*CXH05R

Specifications

Oxygenator and Heat Exchanger			
Material	Housing	Polycarbonate	
	Oxygenator fibers	Microporous polypropylene	
	Heat Exchanger	Stainless steel	
Oxygenator	FX15	FX25	FX05
Fiber bundle surface area	Approx. 1.5 m ²	Approx. 2.5 m ²	Approx. 0.5 m ²
Heat exchanger surface area	Approx. 0.14 m ²	Approx. 0.2 m ²	Approx. 0.035 m ²
Blood flow range	0.5 - 5.0 L/min	0.5 - 7.0 L/min	0.1 - 1.5 L/min
Priming volume (static)	144 mL	260 mL	43 mL
Blood inlet port (from pump)	3/8" (9.5 mm)		1/4" (6.4 mm)
Blood outlet port	3/8" (9.5 mm)		1/4" (6.4 mm)
Cardioplegia port	1/4" (6.4 mm)		N/A
Luer port (for recirc. or blood cardioplegia)	N/A		One luer lock on blood outlet port
Gas inlet port	1/4" (6.4 mm)		
Gas outlet port	1/4" (6.4 mm)		5/16" (7.9 mm)
Water ports	1/2" (12.7 mm) Hansen quick connect fitting		
Maximum pressure blood inlet	1,000 mm Hg (133 kPa) (1.36 kgf/cm ²)		
Maximum pressure water inlet	1,470 mm Hg (196 kPa) (2 kgf/cm ²)		
Arterial Filter			
Filter material	Polyester screen type		
Pore size	32 µm		
Surface area	360 cm ²	600 cm ²	130 cm ²

CAPIOX® FX15/FX25 Advance Hardshell Reservoir and CAPIOX® FX05 Hardshell Reservoir				
Material	Housing	Polycarbonate		
	Venous filter	Polyester screen type, pore size 47 µm		
	Cardiotomy filter	Polyester depth type		
	Defoamer	Polyurethane foam		
Hardshell Reservoir	FX15		FX25	FX05
	R30C	R40C		
Blood flow range				
• Venous flow	0.5 - 5.0 L/min	0.5 - 5.0 L/min	0.5 - 7.0 L/min	0.1 - 1.5 L/min
• Cardiectomy inlet	Max. 4.0 L/min	Max. 5.0 L/min	Max. 5.0 L/min	Max. 1.5 L/min
• Combined flow	Max. 5.0 L/min	Max. 5.0 L/min	Max. 7.0 L/min	Max. 1.5 L/min
Blood storage capacity	3,000 mL	4,000 mL	4,000 mL	1,000 mL
Minimum operating volume	70 mL	150 mL	150 mL	15 mL
Venous blood inlet port	3/8" (9.5 mm) Rotatable	1/2" (12.7 mm) Rotatable	1/2" (12.7 mm) Rotatable	1/4" (6.4 mm) Rotatable
Blood outlet port (to pump)	3/8" (9.5 mm)			1/4" (6.4 mm)
Suction ports	Six, 1/4" (6.4 mm)			Five, 3/16" - 1/4" (4.8 mm - 6.4 mm) Rotatable
Vertical port to CR filter	3/8" (9.5 mm)			N/A
Quick prime port	1/4" (6.4 mm)			
Vent port	1/4" (6.4 mm)			
Auxiliary port	1/4" - 3/8" (6.4 mm - 9.5 mm)			
Luer ports	Three filtered luer locks to cardiectomy filter. One non-filtered luer lock. Two luer locks on venous inlet.			
Maximum sustainable negative pressure in reservoir	-150 mm Hg (-20 kPa)			
Positive pressure relief valve	0 - 8 mm Hg (1.1 kPa)			N/A



Xcoating™ Surface Coating. Terumo's biocompatible amphiphilic polymer surface coating is a standard feature on all CAPIOX FX Advance Oxygenators.



Ordering Information



West Outlet Port

Oxy inlet on right when outlet is facing away from user.



East Outlet Port

Oxy inlet on left when outlet is facing away from user.

Catalog #	Description	Units/Case
CAPIOX® FX15 Oxygenator		
CX*FX15W*	With integrated arterial filter, "west" orientation	4
CX*FX15E*	With integrated arterial filter, "east" orientation	4
CAPIOX® FX15 Advance Oxygenator		
3CX*FX15RW30C#	With integrated arterial filter, 3,000 mL hardshell reservoir, "west" orientation	4
3CX*FX15RE30C#	With integrated arterial filter, 3,000 mL hardshell reservoir, "east" orientation	4
3CX*FX15RW40C	With integrated arterial filter, 4,000 mL hardshell reservoir, "west" orientation	4
3CX*FX15RE40C	With integrated arterial filter, 4,000 mL hardshell reservoir, "east" orientation	4
CAPIOX FX25 Oxygenator		
CX*FX25W	With integrated arterial filter, "west" orientation	4
CX*FX25E	With integrated arterial filter, "east" orientation	4
CAPIOX FX25 Advance Oxygenator		
3CX*FX25RWC	With integrated arterial filter, 4,000 mL hardshell reservoir, "west" orientation	4
3CX*FX25REC	With integrated arterial filter, 4,000 mL hardshell reservoir, "east" orientation	4
CAPIOX FX05 Oxygenator		
CX*FX05RW^	With integrated arterial filter, 1,000 mL hardshell reservoir, "west" orientation	4
CX*FX05RE^	With integrated arterial filter, 1,000 mL hardshell reservoir, "east" orientation	4
Holders for CAPIOX FX Oxygenators		
XX*CXH15	FX15/25 oxygenators	1
XX*CXH18R	FX15/25 Advance oxygenators with hardshell reservoir	1
XX*CXH25F	FX15/25 Advance oxygenators when separated from reservoir	1
XX*XH032	FX15/25 Advance oxygenators with hardshell reservoir, short arm	1
XX*CXH05	FX05 oxygenator	1
XX*CXH05R	FX05 oxygenator with hardshell reservoir	1
XX*CXH05AD	Adapter for SX holder for FX05	1
Accessories for CAPIOX FX Oxygenators		
CX*BP021	Blue thermistor wire	10
CX*BP022	Red thermistor wire	10

+ Contains two 1/4" - 3/8" adapters # Contains four 1/4" - 3/8" adapters ^ Contains four 3/16" - 1/4" adapters, one 1/4" - 3/8" adapters, and a recirculation line

REFERENCES:

1. Internal testing, data on file.
2. Bronson, S., et al. Prescriptive Patient Extracorporeal Circuit and Oxygenator Sizing Reduces Hemodilution and Allogeneic Blood Product Transfusion during Adult Cardiac Surgery. *JECT*. 2013; 45:167-172.
3. Ranucci, M., et al. Effects of priming volume reduction on allogeneic red blood cell transfusions and renal outcome after heart surgery. *Perfusion*. March 2015; 30(2).
4. Lahanas, A., et al. A retrospective comparison of blood transfusion requirements during cardiopulmonary bypass with two different small adult oxygenators. *Perfusion*. July 2013; 28(4).
5. Deptula, J., et al. Clinical Evaluation of the Terumo CAPIOX FX05 Hollow Fiber Oxygenator with Integrated Arterial Line Filter. *JECT*. 2009; 41:220-225.



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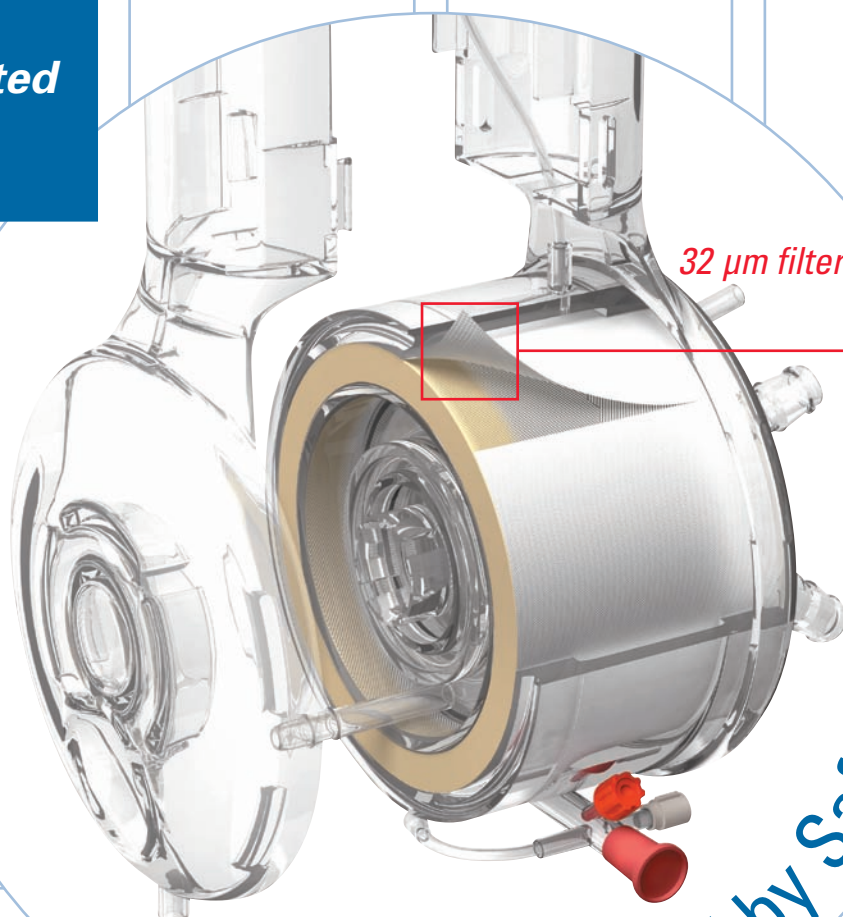
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CAPiox[®] FX Family of Oxygenators with Integrated Arterial Filter

Breakthrough technology for added patient safety

***With
integrated
filter!***

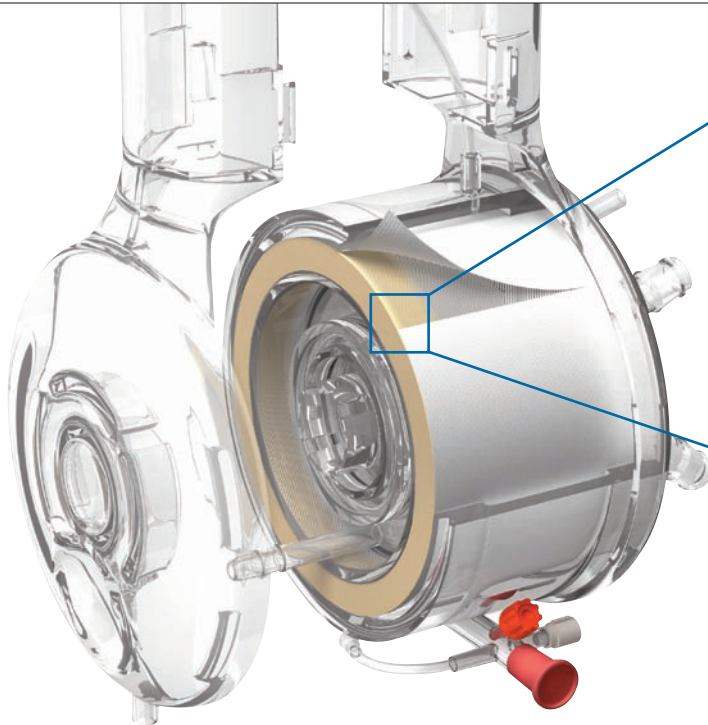


Surrounded by Safety

CAPIOX® FX Family of Oxygenators

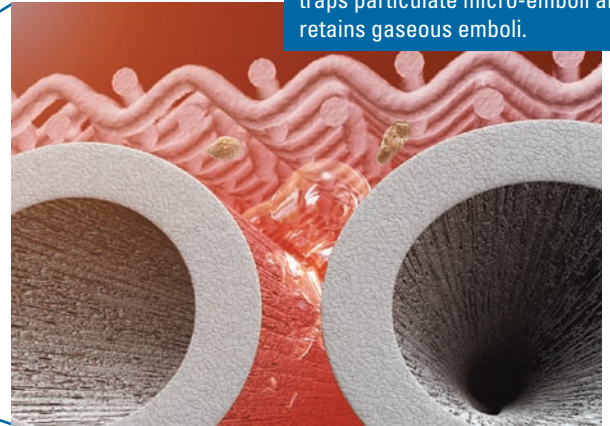
Integrated arterial filter with self-venting technology

A 32 μm screen filter surrounds the fiber layer of the oxygenator. Particulate micro-emboli that may be present in the blood are trapped in the filter mesh while gaseous emboli remain inside the oxygenator and in contact with the hollow fibers. Driven by the pressure difference, gaseous emboli enter the inner lumen of the microporous hollow fiber and are eliminated via the gas outlet.

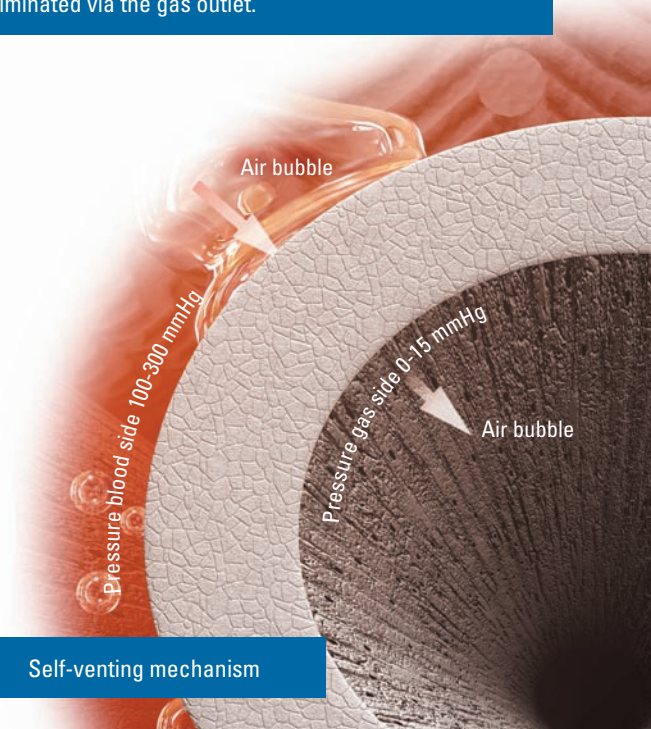


Filter Pore Size 32 μm

Screen filter surrounds the fiber layer, traps particulate micro-emboli and retains gaseous emboli.



Driven by the pressure difference between the blood side and gas side of the oxygenator, gaseous emboli enter the inner lumen of the microporous hollow fiber and are eliminated via the gas outlet.



Self-venting mechanism

xcoating™, Terumo's own biocompatible amphiphilic polymer surface coating, is a standard feature of all CAPIOX® FX oxygenators.

Integrated arterial filter

- Filter inside oxygenator housing
- 32 μm pore size
- Self-venting technology

Oxygenator

Proven performance

- Fully integrated arterial filter with self-venting technology
- Low priming volume, high gas exchange and low pressure drop are optimally balanced for superb performance
- Hollow fibers manufactured exclusively by Terumo using a patented technology means total quality management from raw materials to finished product
- Woven fiber bundle ensures consistent and high-performance gas exchange
- Choice of blood outlet port configurations for easy access and increased circuit flexibility
- No DEHP used in PVC tubing

CAPIOX® FX05 Oxygenator

For neonates and infants



Hardshell Reservoir

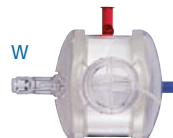
Full featured

- Elongated shape provides stable blood flow path and enhanced visibility at all levels from all angles
- Rotating venous inlet improves set-up flexibility
- Connecting mount increases flexibility in circuit set-up and oxygenator rotation
- Funnel-shaped cardiectomy filter improves breakthrough and residual volumes
- No DEHP used in PVC tubing

- *Maximum blood flow: 1.5 L/min*
- *Oxygenator priming volume: 43 mL*
- *Arterial filter surface area: 130 cm²*
- *Reservoir storage capacity: 1000 mL*

West outlet port

Oxy inlet on right when outlet is facing away from user



East outlet port

Oxy inlet on left when outlet is facing away from user



Choose the blood outlet port configuration that best suits your circuit

CAPIOX® FX15 Oxygenator

*For children, small adults and
minimized circuits*



Available in
two reservoir sizes



- Maximum blood flow: 4.0 L/min
- Oxygenator priming volume: 144 mL
- Arterial filter surface area: 360 cm²
- Reservoir storage capacity: 3000 mL



- Maximum blood flow: 5.0 L/min
- Oxygenator priming volume: 144 mL
- Arterial filter surface area: 360 cm²
- Reservoir storage capacity: 4000 mL

CAPIOX® FX25 Oxygenator

For all adults



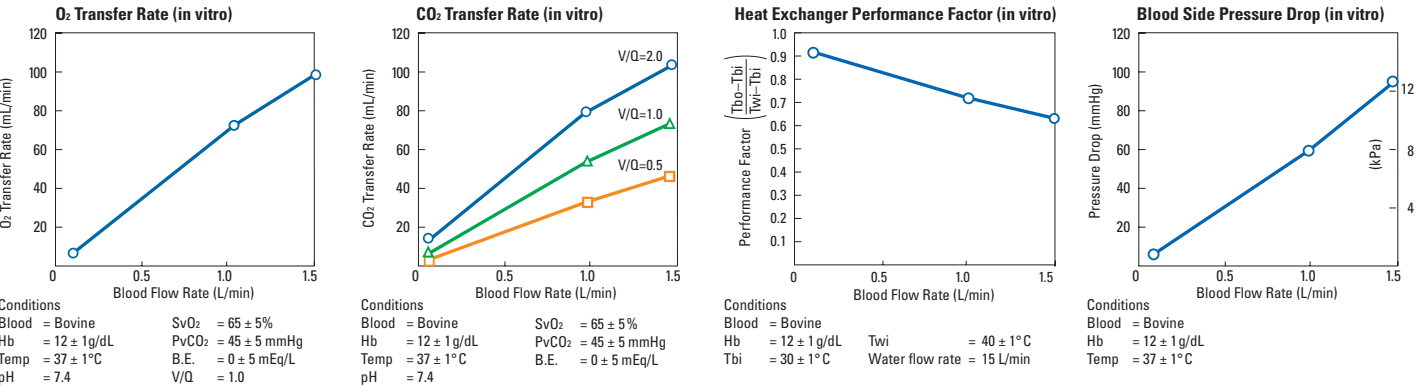
- Maximum blood flow: 7.0 L/min
- Oxygenator priming volume: 260 mL
- Arterial filter surface area: 600 cm²
- Reservoir storage capacity: 4000 mL



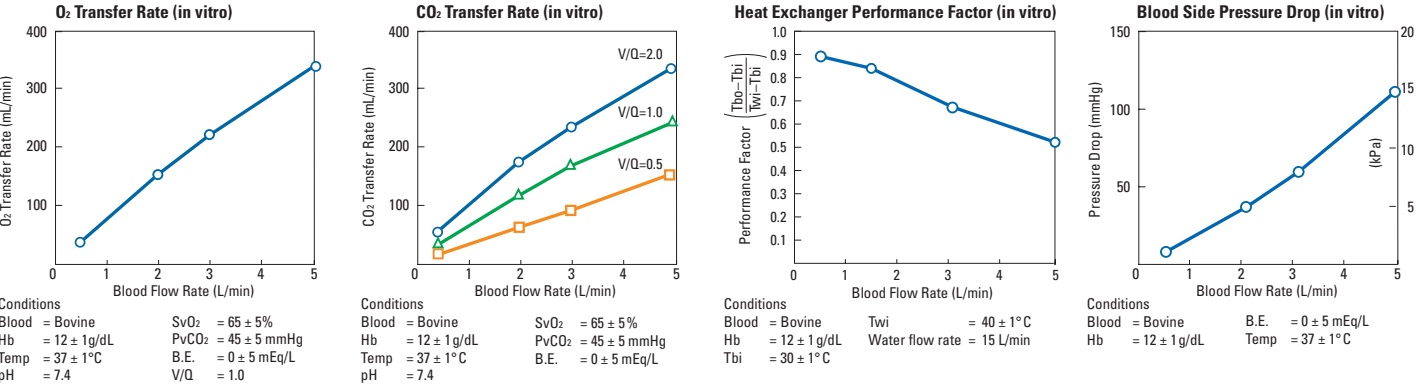
TOTM – an alternative plasticizer

Terumo is ever striving to develop new medical technologies with minimal negative impact to patients and the environment. In line with this goal, Terumo provides an alternative plasticizer for the manufacturing of its products. TOTM (trioctyl trimellitate) offers outstanding physical properties (such as flexibility) to the material and low plasticizer elution.

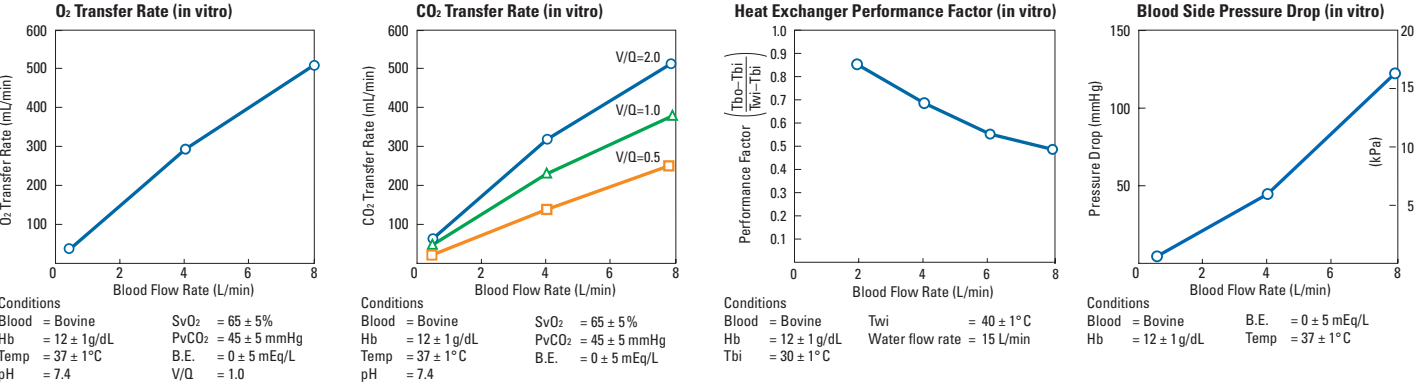
CAPIOX FX05 Performance Data



CAPIOX FX15 Performance Data



CAPIOX FX25 Performance Data



Holder Systems

CAPIOX FX05 Oxygenator



Order # XX*CXH05R



Order # XX*CXH05

CAPIOX FX15 and CAPIOX FX25 Oxygenators



Order # 801804
XX*CXH18R (Europe only)



Order # 801139
XX*XH032 (Europe only)



Order # 812613 for FX25 (US only)
812614 for FX15 (US only)
XX*CXH15 (Europe only)

CAPIOX FX Family of Oxygenators

Specifications

Oxygenator

Material	Housing	Polycarbonate
	Fibers	Microporous polypropylene
	Heat exchanger	Stainless steel

Oxygenator	FX05	FX15	FX25
Fiber bundle surface area	Approx. 0.5 m ²	Approx. 1.5 m ²	Approx. 2.5 m ²
Heat exchanger surface area	Approx. 0.035 m ²	Approx. 0.14 m ²	Approx. 0.2 m ²
Blood flow range	0.1 – 1.5 L/min	0.5 – 5.0 L/min, 0.5 – 4.0 L/min (with R30)	0.5 – 7.0 L/min
Reference blood flow (AAMI std.)	2.5 L/min	7.0 L/min	n.a.
Priming volume (static)	43 mL	144 mL	260 mL
Blood inlet port (from pump)	1/4" (6.4 mm)	3/8" (9.5 mm)	
Blood outlet port	1/4" (6.4 mm)	3/8" (9.5 mm)	
Cardioplegia port	–	1/4" (6.4 mm)	
Luer port (for recirc. or blood cardioplegia)	One luer lock on blood outlet port	n.a.	
Gas inlet port	1/4" (6.4 mm)		
Gas outlet port	5/16" (7.9 mm)	1/4" (6.4 mm)	
Water ports	1/2" (12.7 mm) Hansen quick-connect fittings		
Maximum pressure Blood inlet	1000 mmHg (133 kPa)		
Maximum pressure Water inlet	2 kgf/cm ² (196 kPa) (28.5 psi)		
Arterial filter			
Filter material	Polyester screen type		
Pore size	32 µm		
Surface area	130 cm ²	360 cm ²	600 cm ²

Hardshell Reservoir

Material	Housing	Polycarbonate
	Venous filter	Polyester screen type, Pore size 47 µm
	Cardiotomy filter	Polyester depth type
	Defoamer	Polyurethane foam

Hardshell reservoir	FX05	FX15 R30 (for FX15)	R40 (for FX15)	FX25
Blood flow range				
Venous flow	0.1 – 1.5 L/min	0.5 – 4.0 L/min	0.5 – 5.0 L/min	0.5 – 7.0 L/min
Cardiotomy inlet	Max. 1.5 L/min	Max. 4.0 L/min	Max. 5.0 L/min	Max. 5.0 L/min
Combined flow	Max. 1.5 L/min	Max. 4.0 L/min	Max. 5.0 L/min	Max. 7.0 L/min
Blood storage capacity	1000 mL	3000 mL	4000 mL	4000 mL
Min. operating volume	15 mL	70 mL	200 mL	200 mL
Venous blood inlet port	1/4" (6.4 mm) rotatable	3/8" (9.5 mm) rotatable	1/2" (12.7 mm) rotatable	1/2" (12.7 mm) rotatable
Blood outlet port (to pump)	1/4" (6.4 mm)	3/8" (9.5 mm)		
Suction ports	Five 3/16" – 1/4" (4.8 mm – 6.4 mm) rotatable	Six 1/4" (6.4 mm)		
Vertical port (to CR filter)	n.a.	3/8" (9.5 mm)		
Quick prime port	1/4" (6.4 mm)			
Vent port	1/4" (6.4 mm)			
Auxiliary port	1/4" – 3/8" (6.4 mm – 9.5 mm)			
Luer ports	Three filtered luer locks to cardiotomy filter, one non-filtered luer lock, two luer locks on venous inlet			
Maximum sustainable negative pressure in reservoir	-150 mmHg (-20.0 kPa)			

Ordering Information

DESCRIPTION

CAPIOX FX05 Oxygenator

Oxygenator with integrated arterial filter ¹	CX*FX05W	4
Oxygenator with integrated arterial filter ¹	CX*FX05E	4
Oxygenator with integrated arterial filter/hardshell reservoir ²	CX*FX05RW	4
Oxygenator with integrated arterial filter/hardshell reservoir ²	CX*FX05RE	4

CAPIOX FX15 Oxygenator

Oxygenator with integrated arterial filter ³	CX*FX15W	4
Oxygenator with integrated arterial filter ³	CX*FX15E	4
Oxygenator with integrated arterial filter/hardshell reservoir ⁴	CX*FX15RW30	2
Oxygenator with integrated arterial filter/hardshell reservoir ⁴	CX*FX15RE30	2
Oxygenator with integrated arterial filter/hardshell reservoir	CX*FX15RW40	2
Oxygenator with integrated arterial filter/hardshell reservoir	CX*FX15RE40	2

CAPIOX FX25 Oxygenator

Oxygenator with integrated arterial filter	CX*FX25W	4
Oxygenator with integrated arterial filter	CX*FX25E	4
Oxygenator with integrated arterial filter/hardshell reservoir	CX*FX25RW	2
Oxygenator with integrated arterial filter/hardshell reservoir	CX*FX25RE	2

CATALOG NO. UNITS/CASE

DESCRIPTION

Holders for CAPIOX FX Oxygenators

Holder for FX05 oxygenator	XX*CXH05	1
Holder for FX05 oxygenator with hardshell reservoir	XX*CXH05R	1
Adapter for SX holder for FX05	XX*CXH05AD	1
Holder for FX15/25 oxygenator with hardshell reservoir (short arm)	801139	1
Holder for FX15/25 oxygenator with hardshell reservoir (long arm)	801804	1
Holder for FX25 oxygenator (US only)	812613	1
Holder for FX15 oxygenator (US only)	812614	1
Holder for FX15/25 oxygenator (Europe only)	XX*CXH15	1
Holder for FX15/25 oxygenator when separated from reservoir	XX*CXH25F	1
Holder for FX15/25 oxygenator with hardshell reservoir (Europe only)	XX*CXH18R	1
Holder for FX15/25 oxygenator with hardshell reservoir, short arm (Europe only)	XX*XH032	1

CATALOG NO. UNITS/CASE

- ¹ Contains 2 adapters 3/16" – 1/4" and a recirculation line
² Contains 4 adapters 3/16" – 1/4", 1 adapter 1/4" – 3/8" and a recirculation line
³ Contains 2 adapters 1/4" – 3/8"
⁴ Contains 4 adapters 1/4" – 3/8"



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TERUMO EUROPE N.V. CARDIOVASCULAR DIVISION

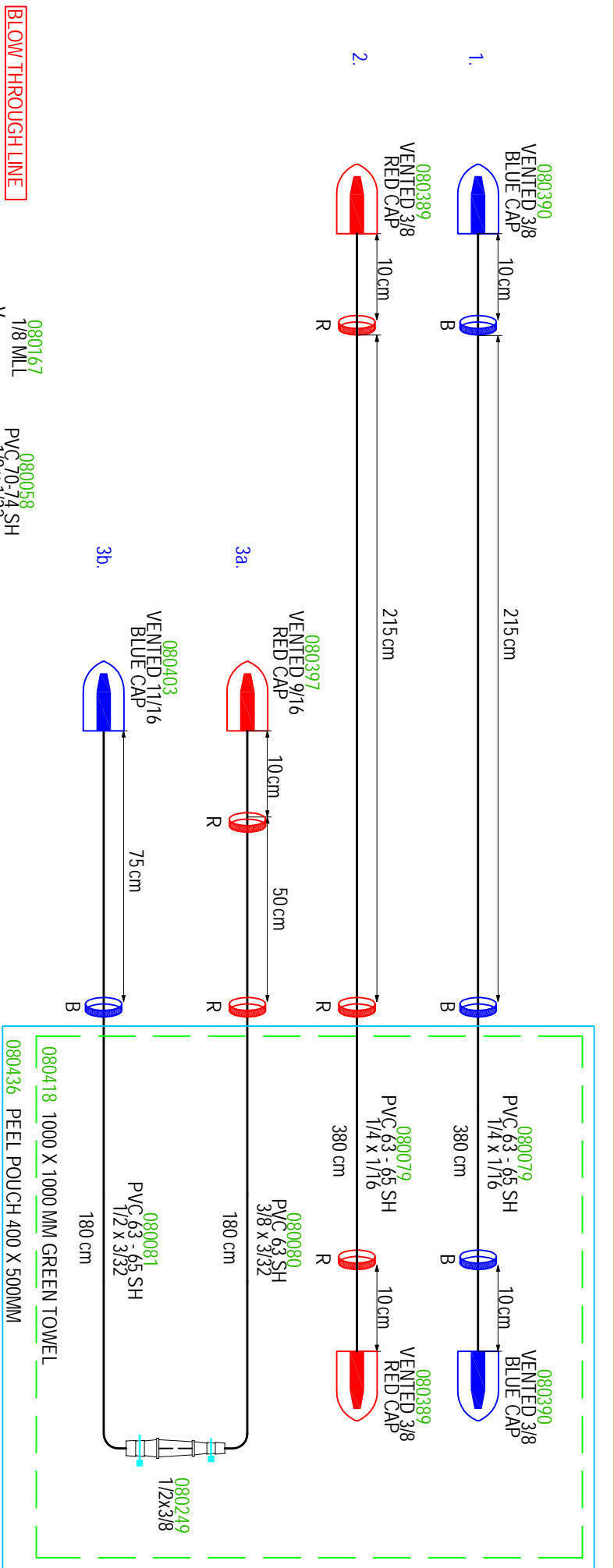
Hauptstrasse 87
 D-65760 Eschborn
 Germany
 49 6196 8023 500 phone
 49 6196 8023 555 fax
www.terumo-europe.com

TERUMO LATIN AMERICA CORPORATION

8750 NW 36th Street, Suite 600
 Miami, Florida 33178
 USA
 305 477 4822 phone
 305 477 4872 fax
 800 283 7866 toll free

TERUMO CORPORATION

44-1, 2-chome
 Hatagaya, Shibuya-ku
 Tokyo 151-0072
 Japan
 81 3 3374 8111 phone
 81 3 3374 8196 fax
www.terumo.com



CUSTOMER:		DESCRIPTION:	
CHISNAU		ADULT PACK	
MOLDOVA			
PRODUCT CODE:		DRAWING TYPE:	
CX-ML003		Total Priming Volume:	
		PRODUCTION	
DRAWN BY:		ISSUED:	
STEPHEN FLYNN		25/10/2005	
INT. AMEND:		AMENDED:	
17/09/2018-SF		21/02/2019 - SC	
ISSUE No:		SHEET No:	
15		1/5	

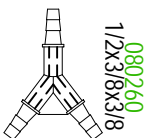
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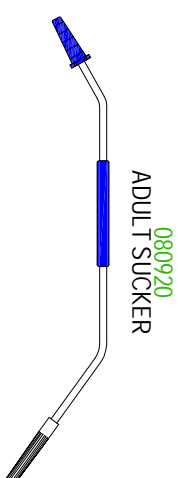
080259
1/2 X 1/2

080520 PEEL POUCH 100 X 150 MM



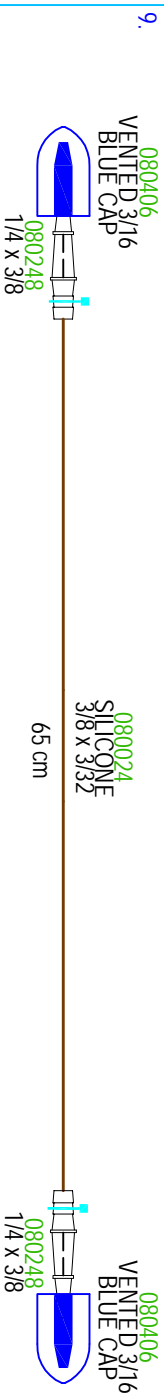
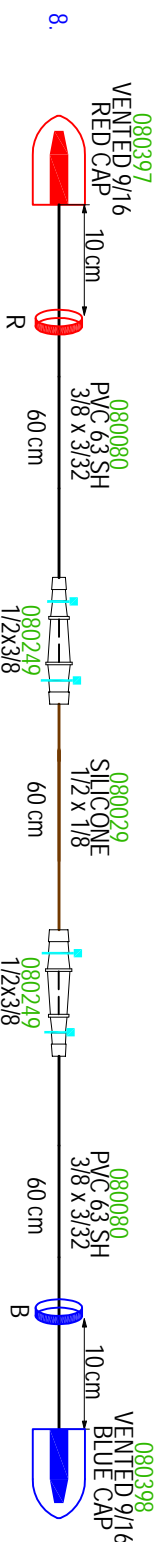
080260
1/2x3/8x3/8

080523 PEEL POUCH 100 X 200 MM

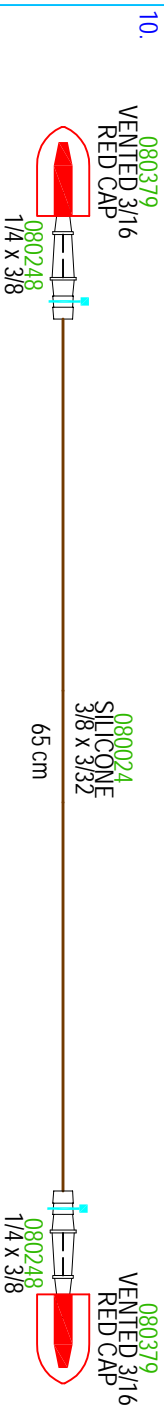


080920
ADULT SUCKER

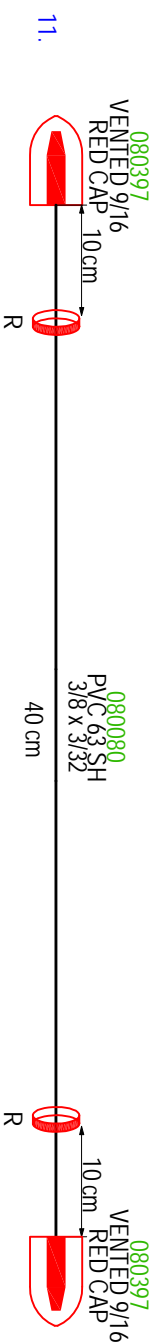
LENGTH CUT TO - 50mm
080509 VIEWREEL 100 mm



080511 PEEL POUCH 250 X 485MM



080511 PEEL POUCH 250 X 485MM



CUSTOMER:

CHISINAU
MOLDOVA

DESCRIPTION:

ADULT PACK

PRODUCT CODE:

DRAWING TYPE:
PRODUCTION

Total Priming Volume:

CX-ML003

DRAWN BY: STEPHEN FLYNN

INT. AMEND: 17/09/2018-SF

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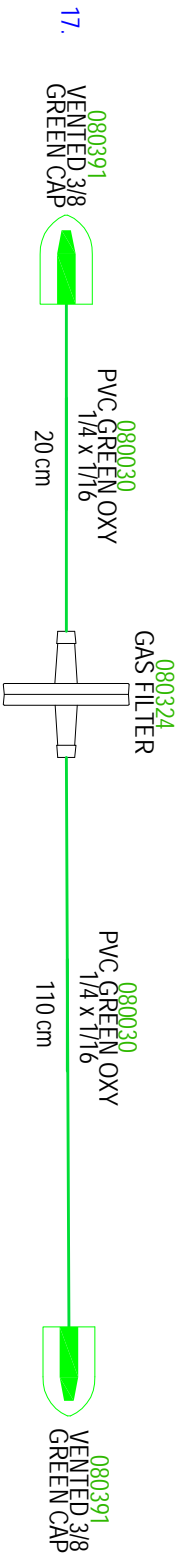
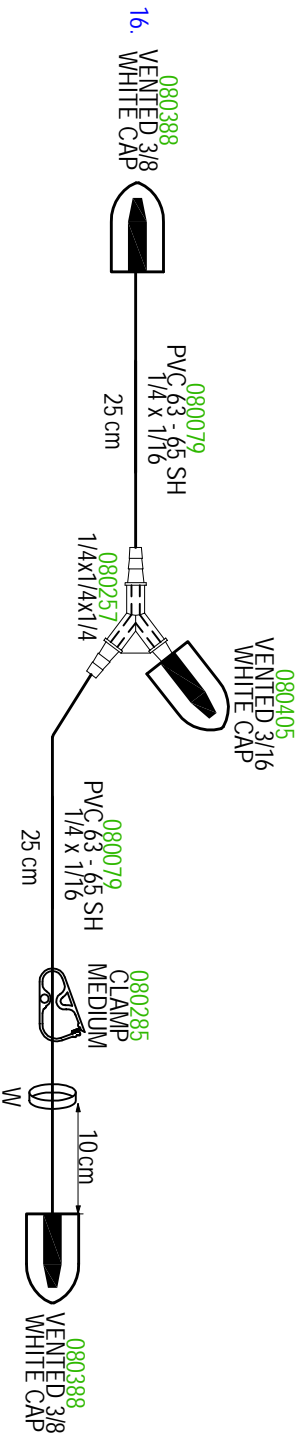
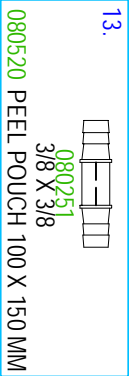
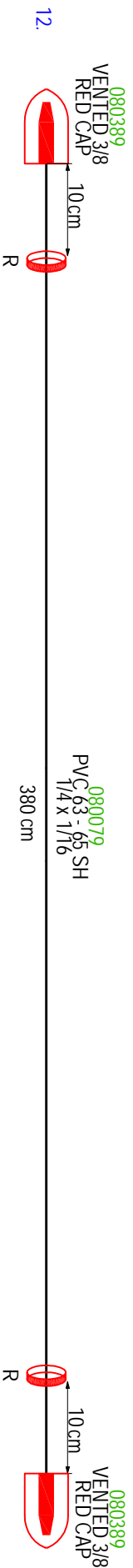
ISSUED: 25/10/2005

AMENDED: 21/02/2019 - SC

ISSUE No: 15

SHEET No: 2/5

TERUMO

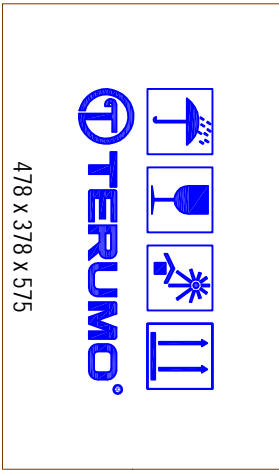
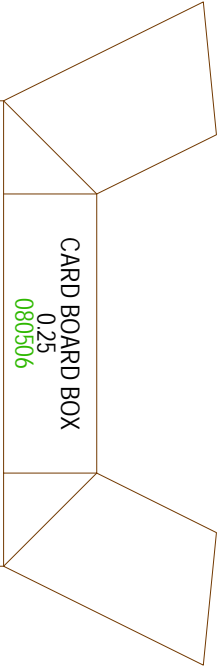
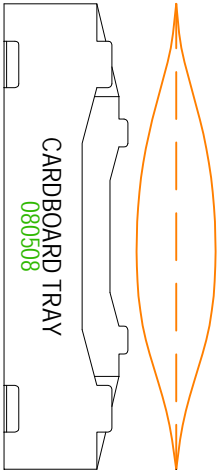
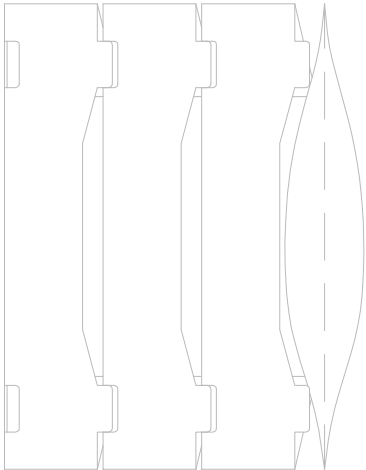


CUSTOMER:		DESCRIPTION:	
CHISINAU		ADULT PACK	
MOLDOVA			
PRODUCT CODE:	DRAWING TYPE:	Total Priming Volume:	
CX-ML003	PRODUCTION		

DRAWN BY:	STEPHEN FLYNN	ISSUED:	25/10/2005	ISSUE No:	15
INT. AMEND:	17/09/2018-SF	AMENDED:	21/02/2019 - SC	SHEET No:	3/5
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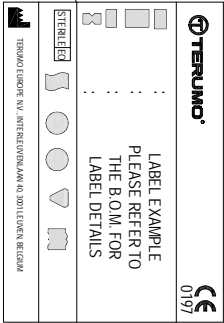
CP LAYER PAD
080856
0.25



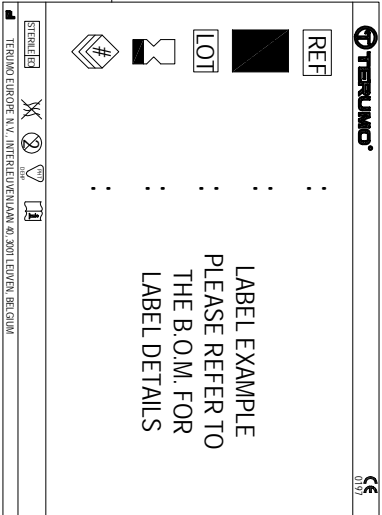
PACKING INFORMATION

EACH GAS POUCH IS TO BE PACKED IN A
CARDBOARD TRAY, ONE ON TOP OF
ANOTHER. 4 PACKS PER BOX

PACK LABEL EXAMPLE



BOX LABEL EXAMPLE



CUSTOMER:

CHISINAU
MOLDOVA

DESCRIPTION:

ADULT PACK

PRODUCT CODE:

CX-ML003

DRAWING TYPE:

PRODUCTION

Total Priming Volume:

DRAWN BY:

STEPHEN FLYNN

ISSUED:

25/10/2005

ISSUE No:

15

INT. AMEND:

17/09/2018-SF

AMENDED:

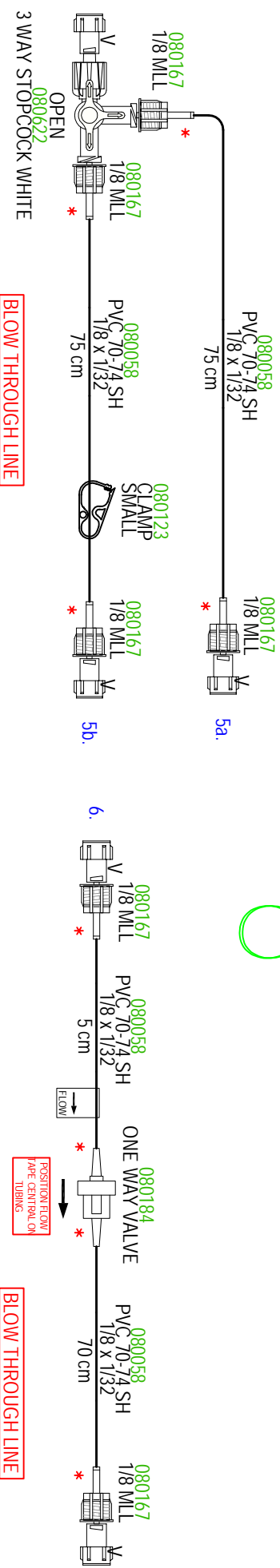
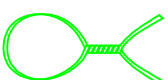
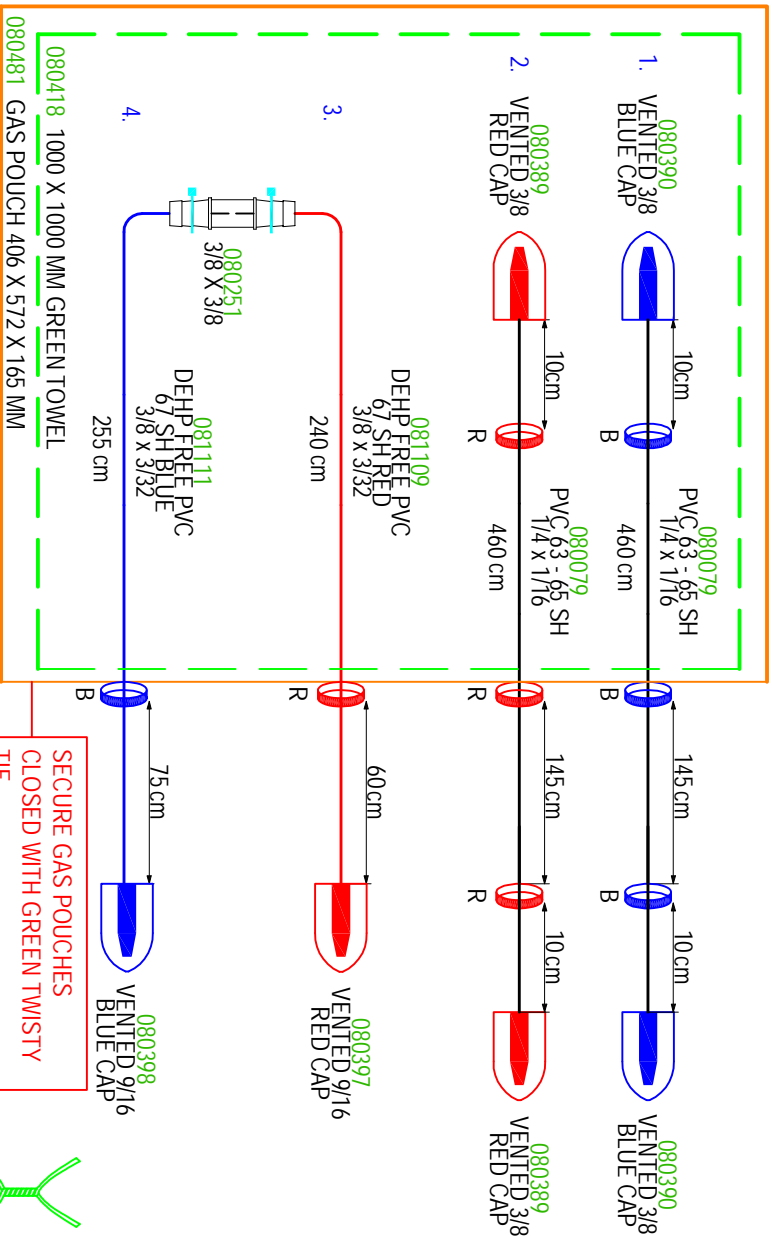
21/02/2019 - SC

SHEET No:

5/5

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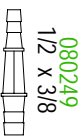
CUSTOMER:	DESCRIPTION:
CIP CHISINAU	PAEDIATRIC PACK FOR USE WITH FX15RW40
MOLDOVA	

PRODUCT CODE: **DRAWING TYPE:** **Total Priming Volume:**

DRAWN BY:	ISSUED:	ISSUE No:
SHIRLEY COURTNEY	26/02/2016	6
INT. AMEND:	AMENDED:	SHEET No:
28/03/2019-SF	16/04/2019-SF	1/5

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7.

080249
1/2 x 3/8

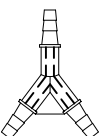
080520 PEEL POUCH 100 X 150 MM



8.

080251
3/8 X 3/8

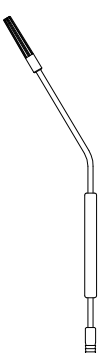
080520 PEEL POUCH 100 X 150 MM



9.

080257
1/4x1/4x1/4

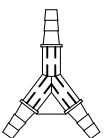
080523 PEEL POUCH 100 X 200 MM



10.

080825
PAEDIATRIC SUCKER

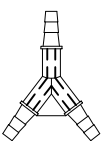
080509 VIEW/REEL 100 mm LENGTH CUT TO - 50cm



11.

080250
3/8x3/8x3/8

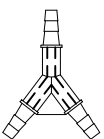
080523 PEEL POUCH 100 X 200 MM



12.

080262
3/8x1/4x3/8

080523 PEEL POUCH 100 X 200 MM



13.

080258
3/8x1/4x1/4

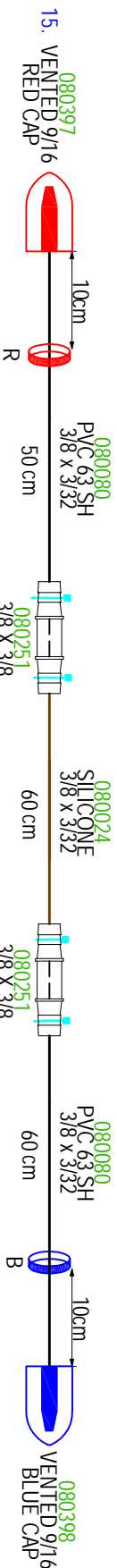
080523 PEEL POUCH 100 X 200 MM



14.

080255
1/4 x 1/4

080520 PEEL POUCH 100 X 150 MM



15. VENTED 9/16
RED CAP

080397

10cm

R

50 cm

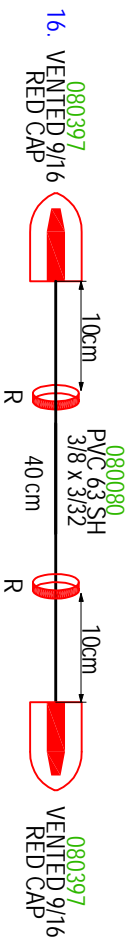
60 cm

60 cm

60 cm

10cm

B



16. VENTED 9/16
RED CAP

080397

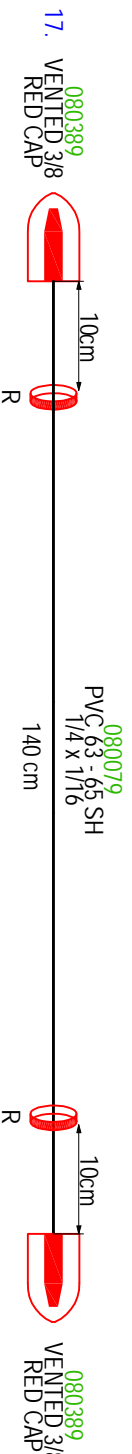
10cm

R

40 cm

10cm

080397
VENTED 9/16
RED CAP



17. VENTED 3/8
RED CAP

080389

10cm

R

140 cm

080251
3/8 X 3/8

10cm

R

080389
VENTED 3/8
RED CAP

CUSTOMER:

CIP CHISINAU
MOLDOVA

DESCRIPTION:

PAEDIATRIC PACK FOR USE WITH FX15RW40

PRODUCT CODE:

CK-ML025

DRAWING TYPE:

PRODUCTION

Total Priming Volume:

XXX

DRAWN BY: SHIRLEY COURTNEY

INT. AMEND: 28/03/2019-SF

ISSUED: 26/02/2016

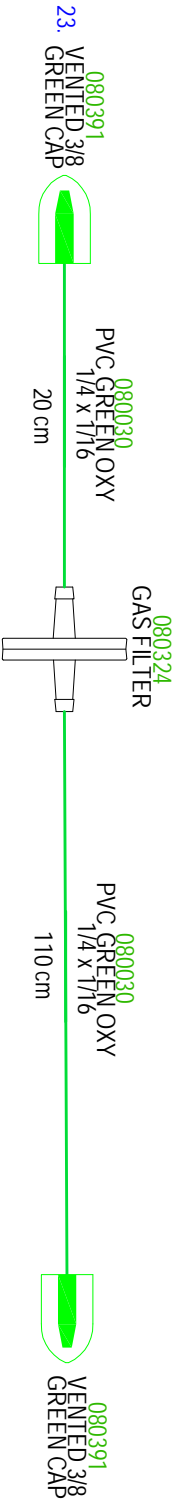
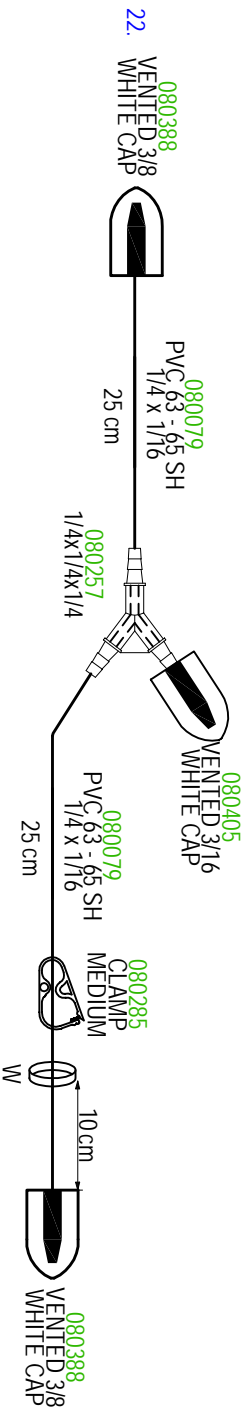
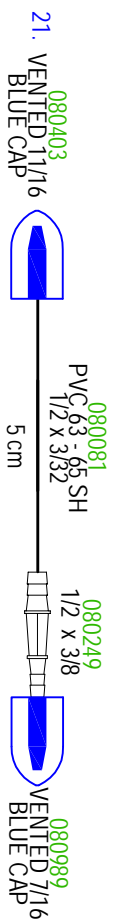
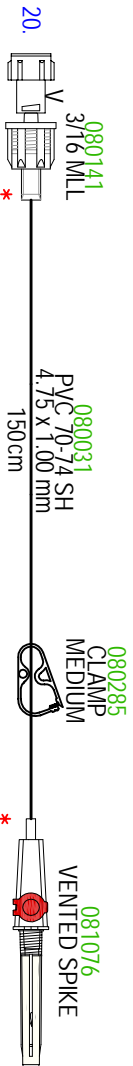
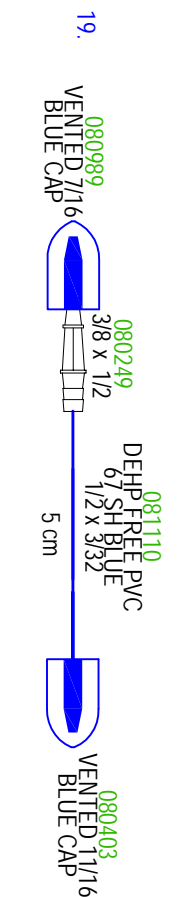
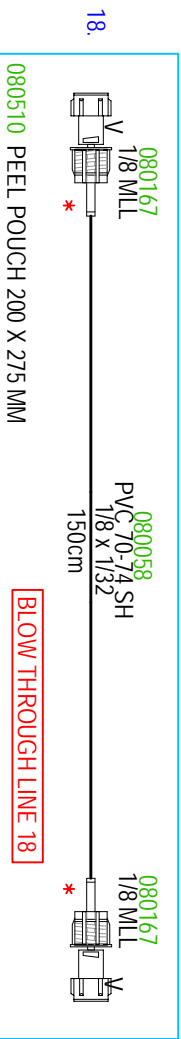
AMENDED: 16/04/2019-SF

ISSUE No: 6

SHEET No: 2/5

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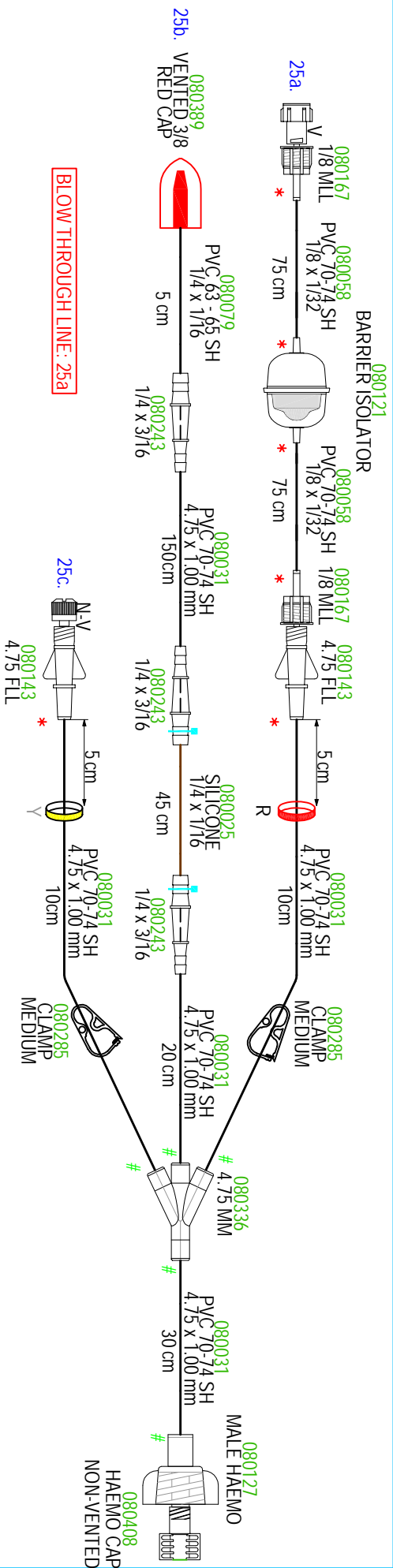


080443 PEEL POUCH 250 X 500 MM

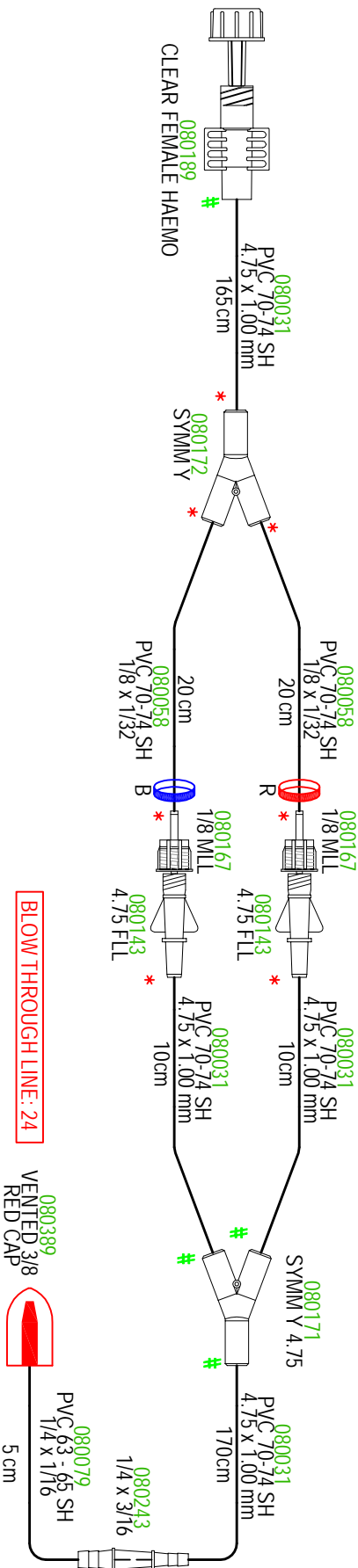
CUSTOMER:	DESCRIPTION:
CIP CHISINAU	PAEDIATRIC PACK FOR USE WITH FX15RW40
MOLDOVA	
PRODUCT CODE:	DRAWING TYPE:
CX-ML025	PRODUCTION
	Total Priming Volume:
	XXX

DRAWN BY:	ISSUED:	ISSUE No:
SHIRLEY COURTNEY	26/02/2016	6
INT. AMEND:	AMENDED:	SHEET No:
28/03/2019-SF	16/04/2019-SF	3/5
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26.



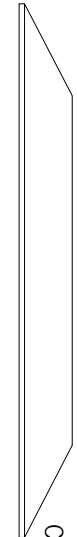
080511 PEEL POUCH 250 X 485MM
 080511 PEEL POUCH 250 X 485MM
 080512 PEEL POUCH 300 X 510MM
 080483 GAS POUCH 508 X 648 X 165 MM

CUSTOMER:	DESCRIPTION:
CIP CHISINAU	PAEDIATRIC PACK FOR USE WITH FX15RW40
MOLDOVA	
PRODUCT CODE:	DRAWING TYPE:
CX-ML025	PRODUCTION
	Total Priming Volume:
	XXX

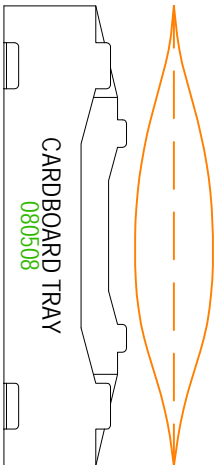
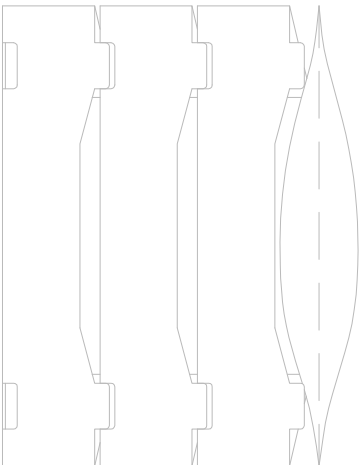
DRAWN BY:	ISSUED:	ISSUE No.:
SHIRLEY COURTNEY	26/02/2016	6
INT. AMEND:	AMENDED:	SHEET No.:
28/03/2019-SF	16/04/2019-SF	4/5

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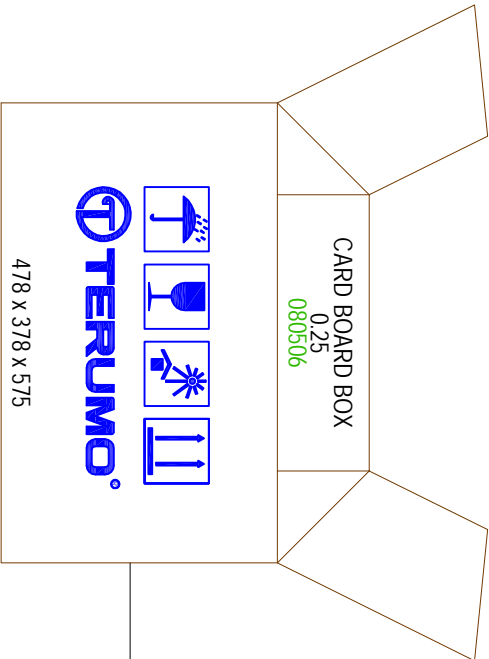
TERUMO



CP LAYER PAD
080856
0.25



CARDBOARD TRAY
080508



CARD BOARD BOX
0.25
080506



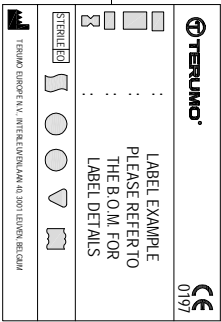
478 x 378 x 575

PACKING INFORMATION

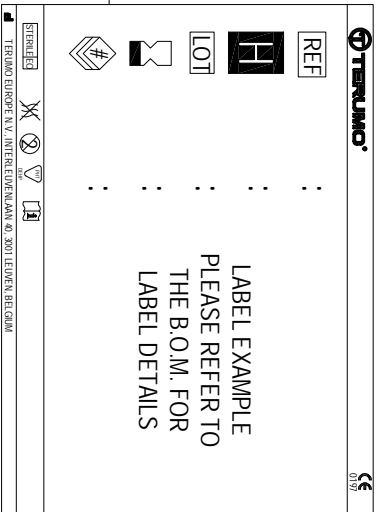
EACH GAS POUCH IS TO BE PACKED IN A
CARDBOARD TRAY, ONE ON TOP OF
ANOTHER. 4 PACKS PER BOX

TOP:
24-25-26
7-8-9-11-12-13-14-18
19-21-5-6-23
15-17-16-20-22
1-2-3-4

PACK LABEL EXAMPLE



BOX LABEL EXAMPLE



CUSTOMER:

CIP CHISINAU
MOLDOVA

DESCRIPTION:

PAEDIATRIC PACK FOR USE WITH FX15RW40

PRODUCT CODE:

CX-ML025

DRAWING TYPE:

PRODUCTION

Total Priming Volume:

XXX

DRAWN BY:

ISSUED: 26/02/2016

ISSUE No: 6

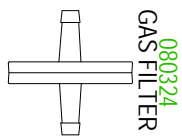
INT. AMEND:

AMENDED: 16/04/2019-SF

SHEET No: 5/5

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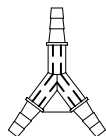
080324
GAS FILTER

080523 PEEL POUCH 100 X 200 MM



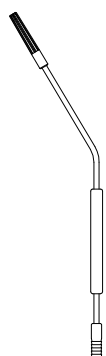
080251
3/8 X 3/8

080520 PEEL POUCH 100 X 150 MM



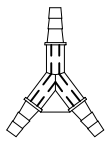
080257
1/4x1/4x1/4

080523 PEEL POUCH 100 X 200 MM



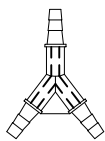
080825
PAEDIATRIC SUCKER

080509 VIEW/REEL 100 mm LENGTH CUT TO - 50cm



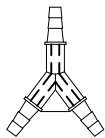
080250
3/8x3/8x3/8

080523 PEEL POUCH 100 X 200 MM



080262
3/8x1/4x3/8

080523 PEEL POUCH 100 X 200 MM



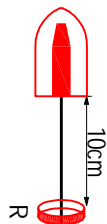
080258
3/8x1/4x1/4

080523 PEEL POUCH 100 X 200 MM



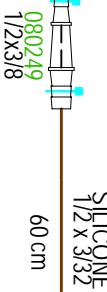
080255
1/4 x 1/4

080520 PEEL POUCH 100 X 150 MM



080397
RED CAP
PVC 70-7/4 SH
3/8 x 3/32

R



080028
SILICONE
1/2 x 3/32

60 cm



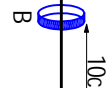
080249
1/2x3/8

60 cm



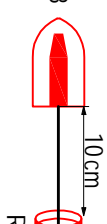
080040
PVC 70-7/4 SH
3/8 x 3/32

10cm



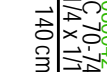
080398
VENTED 9/16
BLUE CAP

B



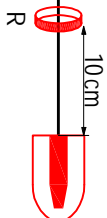
080389
RED CAP
PVC 70-7/4 SH
1/4 x 1/16

R



080042
PVC 70-7/4 SH
1/4 x 1/16

140 cm



080389
VENTED 3/8
RED CAP

R

CUSTOMER:

CIP CHISINAU
MOLDOVA

DESCRIPTION:

PAEDIATRIC PACK FOR USE WITH FX15RW30

PRODUCT CODE:

CX-ML024

DRAWING TYPE:

ENGINEERING

Total Priming Volume:

XXX

DRAWN BY:

SHIRLEY COURTNEY

ISSUED:

26/02/2016

INT. AMEND:

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AMENDED:

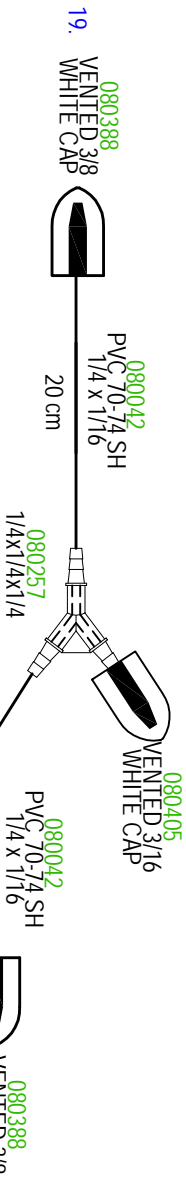
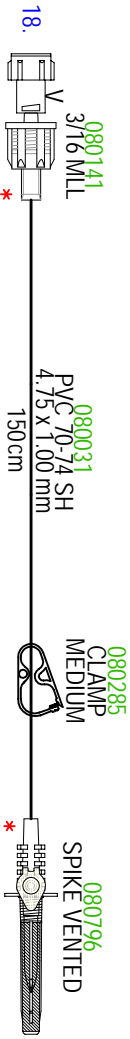
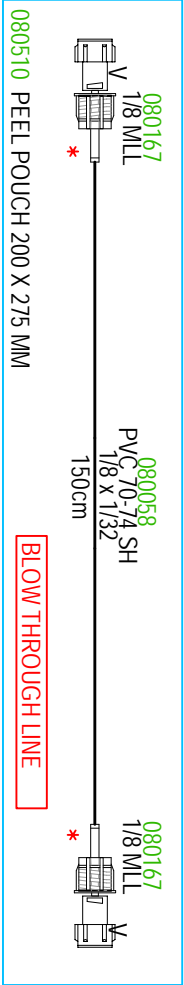
02/03/2016-SF

SHEET No:

2/5

TERUMO

17.



CUSTOMER:

CIP CHISINAU
MOLDOVA

DESCRIPTION:

PAEDIATRIC PACK FOR USE WITH FX15RW30

PRODUCT CODE:

CX-ML024

DRAWING TYPE:

ENGINEERING

Total Priming Volume:

XXX

DRAWN BY: SHIRLEY COURTNEY

ISSUED: 26/02/2016

ISSUE No.: 3

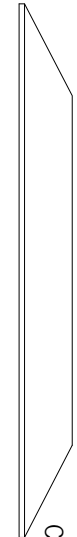
INT. AMEND:

AMENDED: 02/03/2016-SF

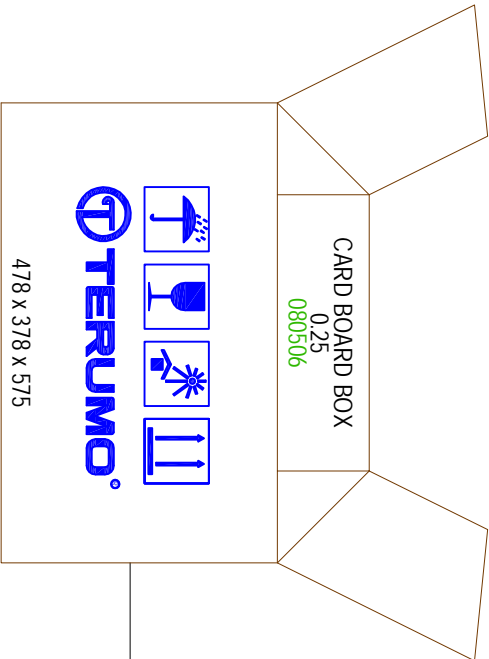
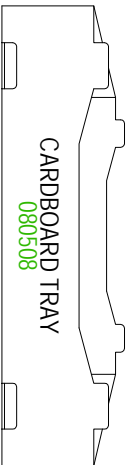
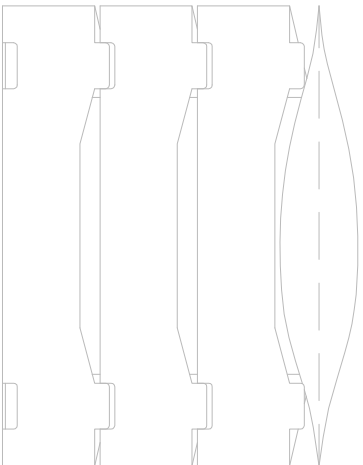
SHEET No.: 3/5

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TERUMO



CP LAYER PAD
080856
0.25



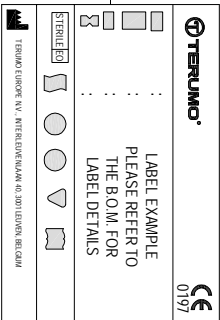
PACKING INFORMATION

EACH GAS POUCH IS TO BE PACKED IN A CARDBOARD TRAY, ONE ON TOP OF ANOTHER. 4 PACKS PER BOX

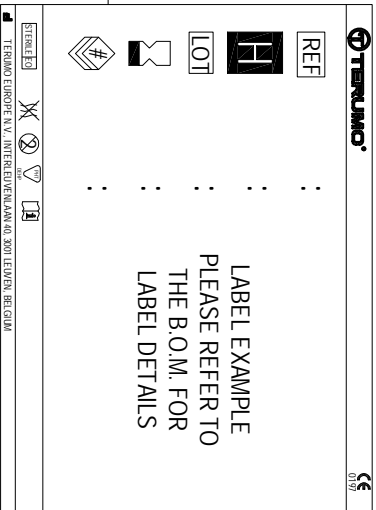
PACKING ORDER TO BE CONFIRMED ON FIRST PRODUCTION AND IMAGES TAKEN.



PACK LABEL EXAMPLE



BOX LABEL EXAMPLE



CUSTOMER:

CIP CHISINAU
MOLDOVA

DESCRIPTION:

PAEDIATRIC PACK FOR USE WITH FX15RW30

PRODUCT CODE:

CX-ML024

DRAWING TYPE:

ENGINEERING

Total Priming Volume:

XXX

DRAWN BY:

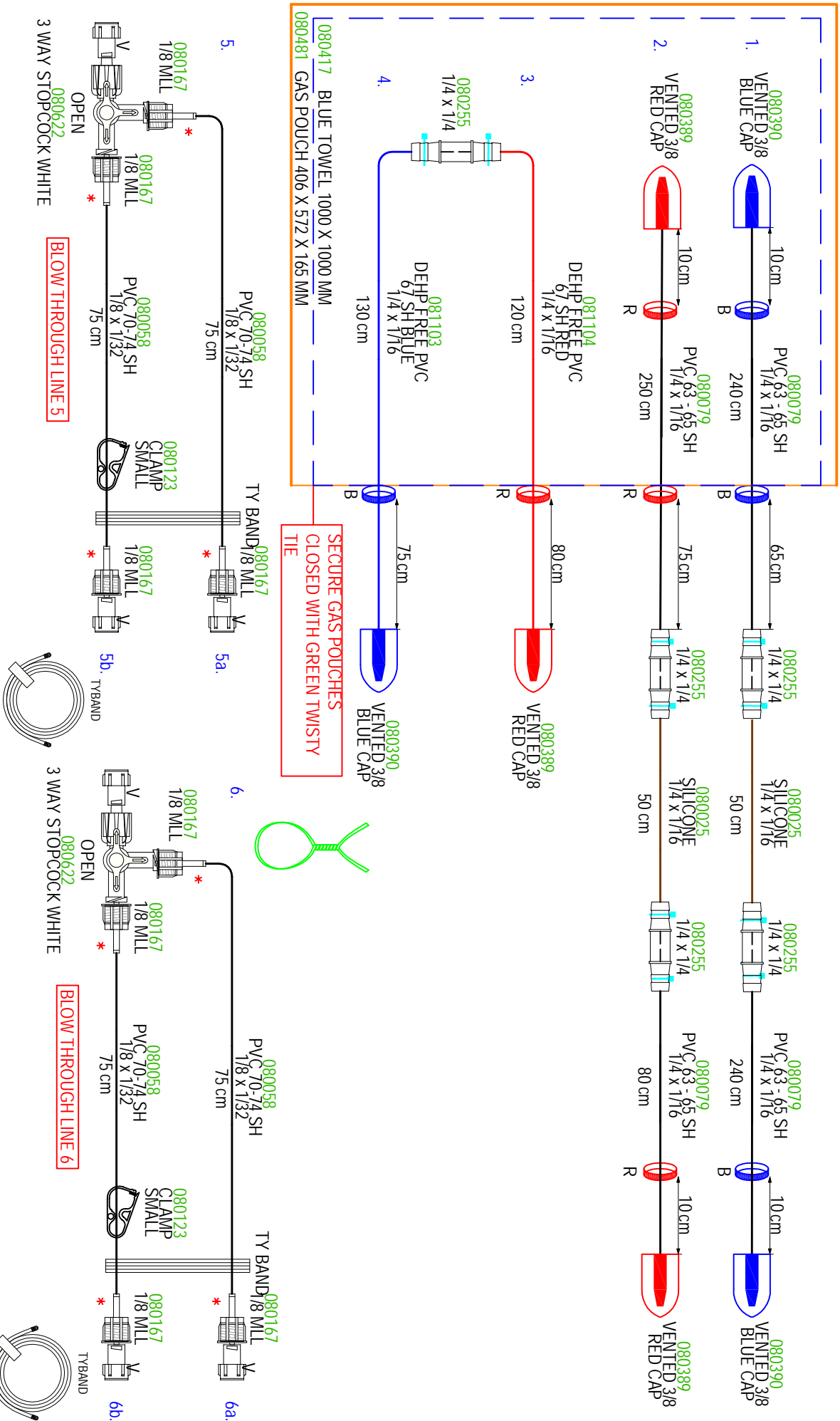
SHIRLEY COURTNEY

INT. AMEND:

AMENDED: 02/03/2016-SF

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TERUMO



CUSTOMER:

CHISINAU
MOLDOVA

DESCRIPTION:

PEDIATRIC PACK FOR <16 KG
FOR USE WITH FX05RW

PRODUCT CODE:

CX-M1027

DRAWING TYPE:

PRODUCTION

Total Priming Volume:

DRAWN BY:

STEPHEN ELYNN

ISSUED:

16/01/2018

ISSUE No:

4

INT. AMEND:

AMENDED: 30/05/2019-SF

SHEET No:

1/6

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TERUMO

080255
1/4 X 1/4

080523 PEEL POUCH 100 X 200 MM

080825
PAEDIATRIC SUCKER

080391
VENTED 3/8
GREEN CAP

20 cm

080324
GAS FILTER

110 cm

080391
VENTED 3/8
GREEN CAP

PVC GREEN OXY
1/4 x 1/16

12. VENTED 3/8 RED CAP (080389) 40 cm PVC 63 - 65 SH 1/4 x 1/16 (080079) VENTED 3/8 RED CAP (080389)

13. VENTED 1/2 BLUE CAP (080401) 150 cm DEHP FREE 63 - 65 SH 3/8 x 1/16 (080924) VENTED 1/2 BLUE CAP (080401)

14. VENTED 3/8 RED CAP (080389) 380 cm PVC 63 - 65 SH 1/4 x 1/16 (080079) VENTED 3/8 RED CAP (080389)

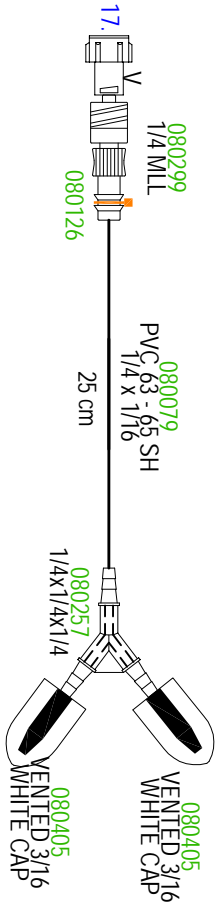
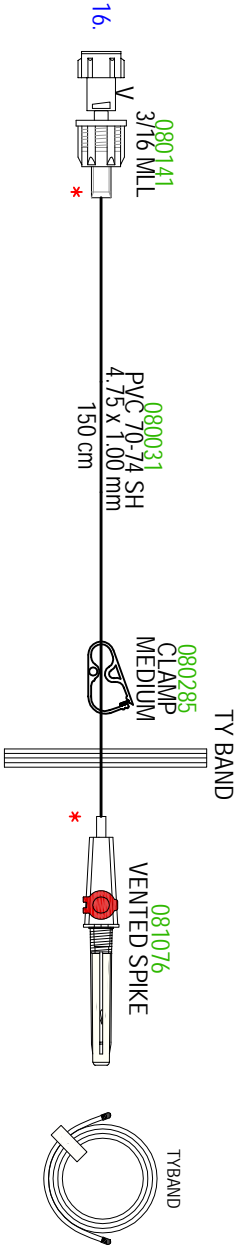
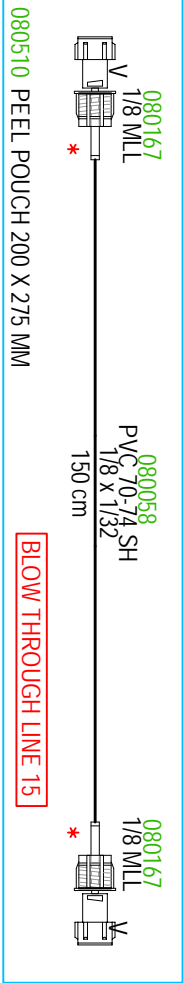
TV BAND

TVBAND

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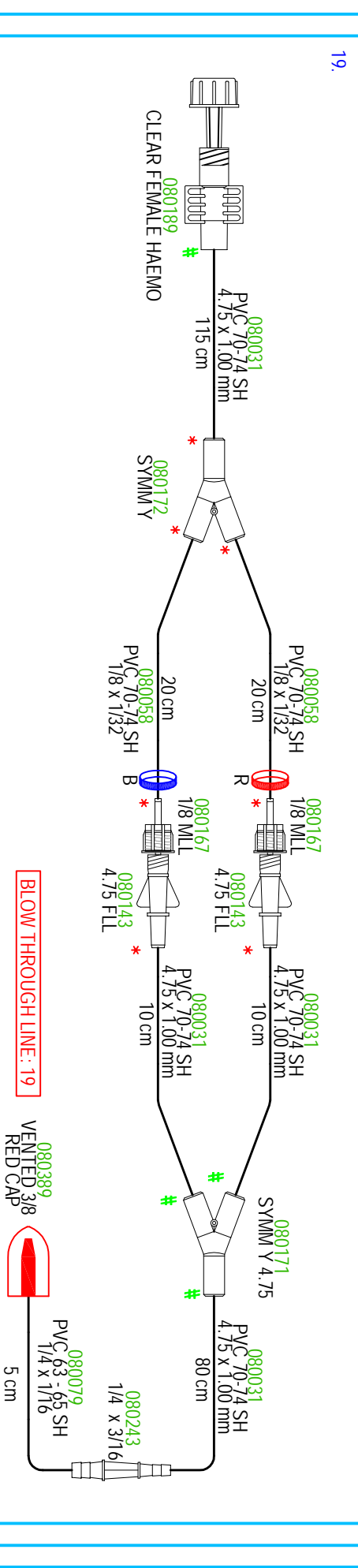
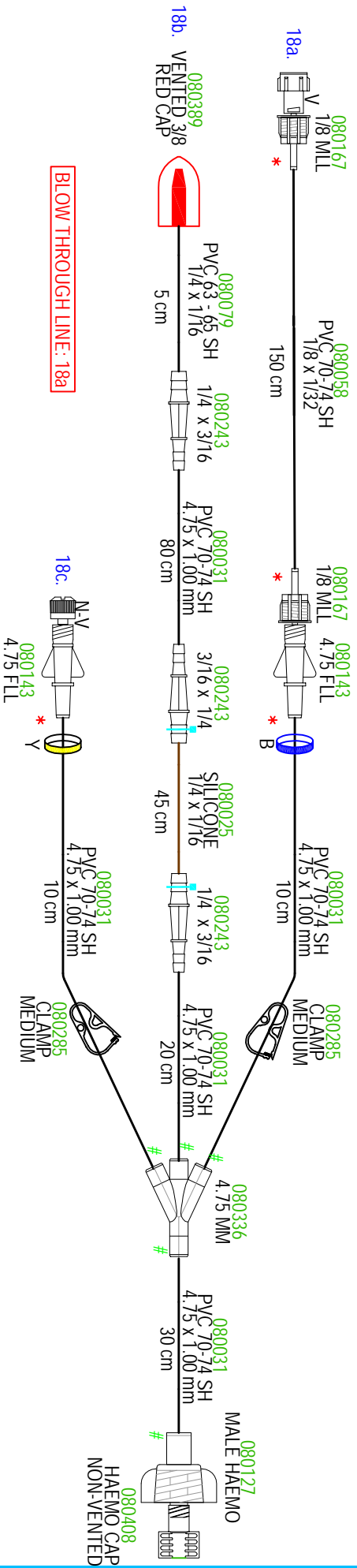


15.



CUSTOMER:		DESCRIPTION:	
CHISINAU		PEDIATRIC PACK FOR <16 KG	
MOLDOVA		FOR USE WITH FX05RW	
PRODUCT CODE:		Total Priming Volume:	
CX-ML027		DRAWING TYPE:	
		PRODUCTION	

DRAWN BY:	STEPHEN FLYNN	ISSUED:	16/01/2018	ISSUE No:	4
INT. AMEND:		AMENDED:	30/05/2019-SF	SHEET No:	3/6
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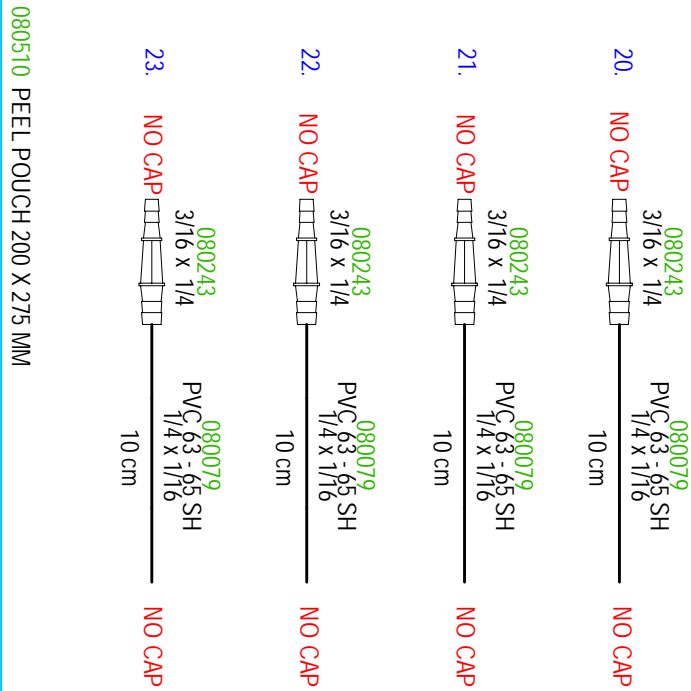


080511 PEEL POUCH 250 X 485MM
 080511 PEEL POUCH 250 X 485MM
 080512 PEEL POUCH 300 X 510MM

[LABEL] [LABEL]

CUSTOMER: CHISINAU MOLDOVA	DESCRIPTION: PEDIATRIC PACK FOR <16 KG FOR USE WITH FX05RW
PRODUCT CODE: CX-M1027	DRAWING TYPE: PRODUCTION
DRAWN BY: STEPHEN FLYNN	ISSUED: 16/01/2018
INT. AMEND: THIS DOCUMENT IS THE PROPERTY OF TERUMO EUROPE AND MAY NOT BE COPIED BY ANY THIRD PARTY.	AMENDED: 30/05/2019-SF
ISSUE No: 4	SHEET No: 4/6
Total Priming Volume:	





080510 PEEL POUCH 200 X 275 MM

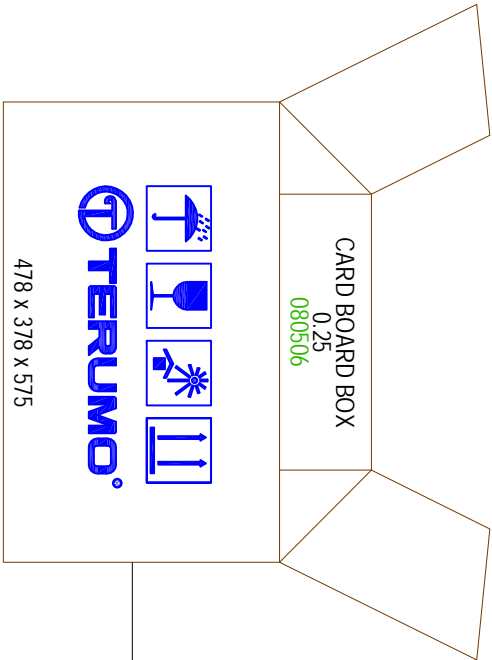
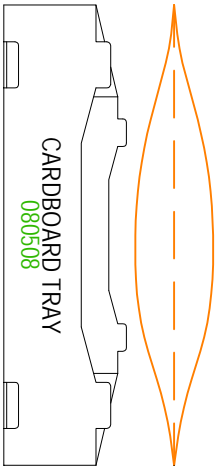
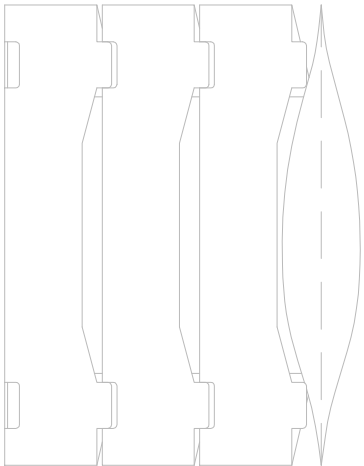
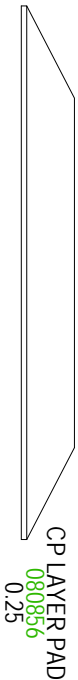
080483 GAS POUCH 508 X 648 X 165 MM

CUSTOMER:	
CHISINAU	
MOLDOVA	
PRODUCT CODE:	
CX-ML027	

DESCRIPTION:	
PEDIATRIC PACK FOR <16 KG	
FOR USE WITH FX05RW	
DRAWING TYPE:	
PRODUCTION	
Total Priming Volume:	

DRAWN BY:	STEPHEN FLYNN	ISSUED:	16/01/2018	ISSUE No:	4
INT. AMEND:		AMENDED:	30/05/2019-SF	SHEET No:	5/6
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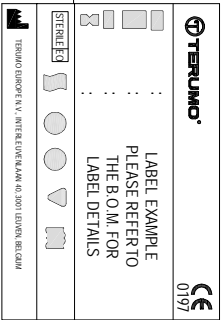




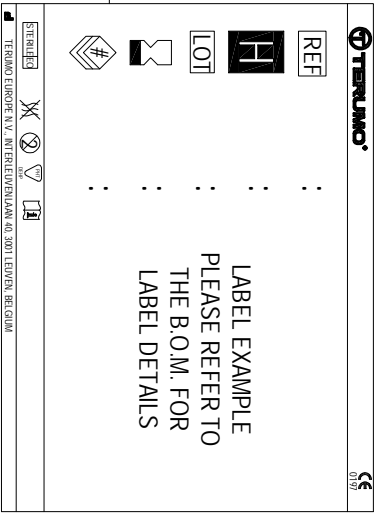
PACKING INFORMATION

EACH GAS POUCH IS TO BE PACKED IN A
CARDBOARD TRAY, ONE ON TOP OF
ANOTHER. 4 PACKS PER BOX

PACK LABEL EXAMPLE



BOX LABEL EXAMPLE



CUSTOMER:

CHISINAU
MOLDOVA

DESCRIPTION:

PEDIATRIC PACK FOR <16 KG
FOR USE WITH FX05RW

PRODUCT CODE:

CX-ML027

DRAWING TYPE:

PRODUCTION

Total Priming Volume:

DRAWN BY:

STEPHEN FLYNN

ISSUED:

16/01/2018

ISSUE No.:

4

INT. AMEND:

AMENDED:

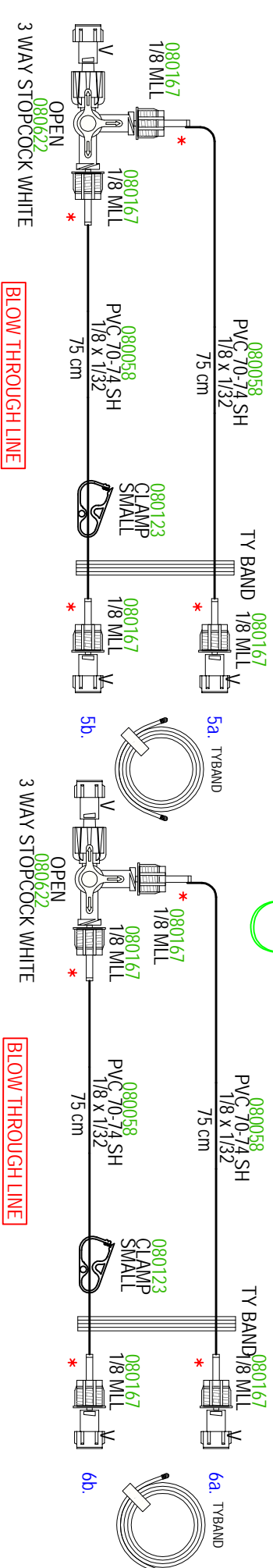
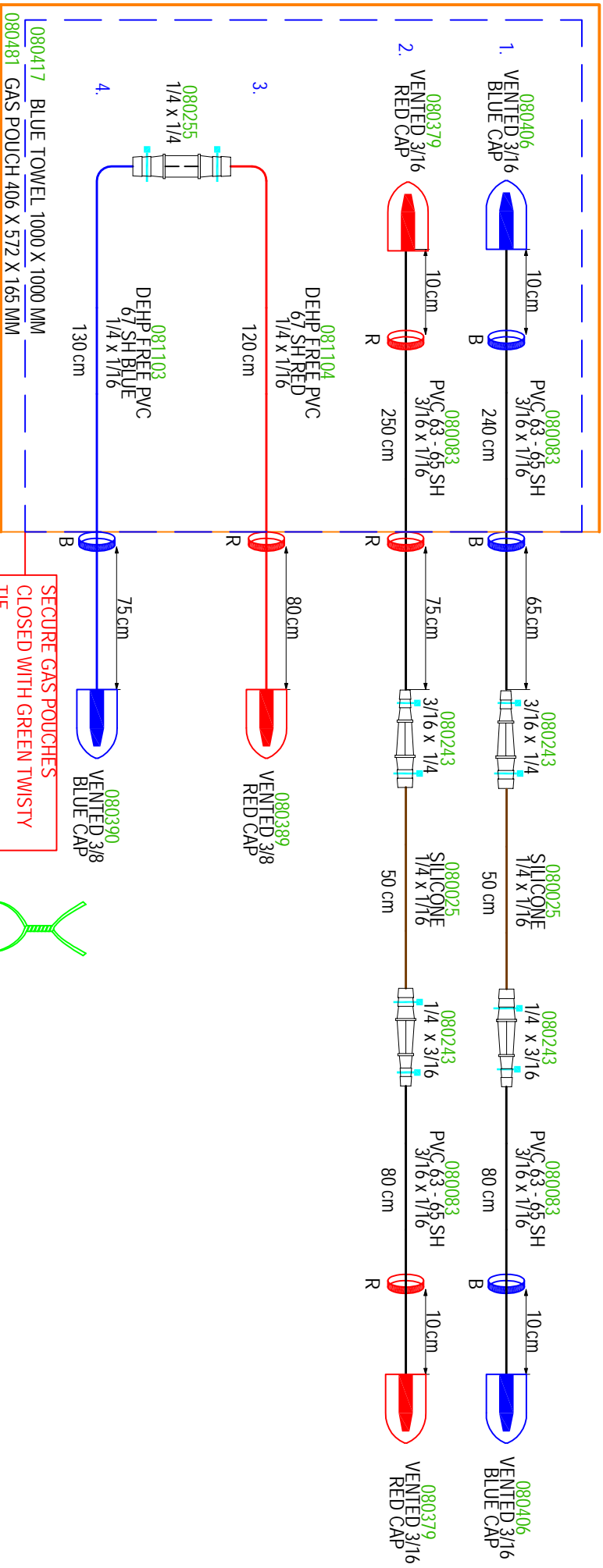
30/05/2019-SF

SHEET No.:

6/6

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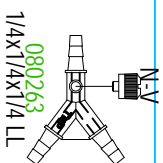


CUSTOMER:		DESCRIPTION:	
CHISINAU		CHILD PACK <6 KG	
MOLDOVA			
PRODUCT CODE:	DRAWING TYPE:	Total Priming Volume:	
CX-ML026	PRODUCTION		

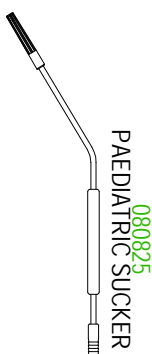
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INT. AMEND:	29/09/2017-SF	AMENDED:	16/04/2019-SF	SHEET No:	1/5
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TERUMO					



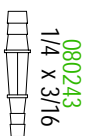
7. 080243
1/4 x 3/16
080520 PEEL POUCH 100 X 150 MM



8. 080825
1/4x1/4x1/4 LL
080523 PEEL POUCH 100 X 200 MM



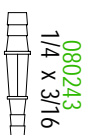
9. 080825
PAEDIATRIC SUCKER
LENGTH CUT TO - 50 cm
080509 VIEWREEL 100 mm
080520 PEEL POUCH 100 X 150 MM



10. 080243
1/4 x 3/16
080520 PEEL POUCH 100 X 150 MM



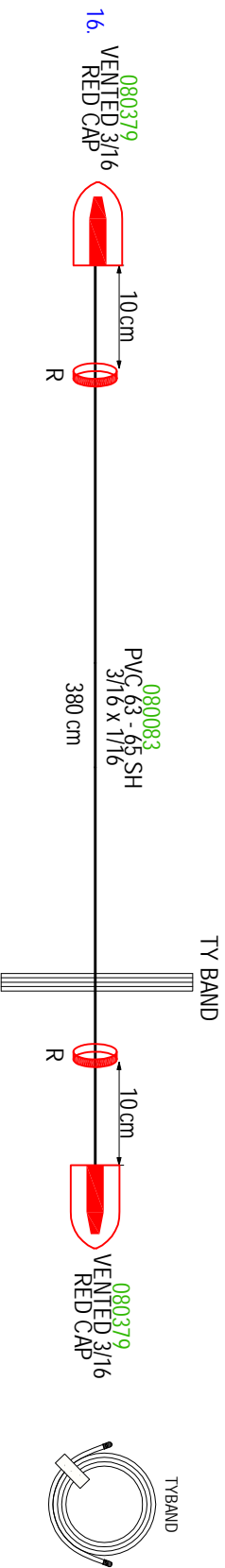
11. 080255
1/4 x 1/4
080520 PEEL POUCH 100 X 150 MM



12. 080243
1/4 x 3/16
080520 PEEL POUCH 100 X 150 MM

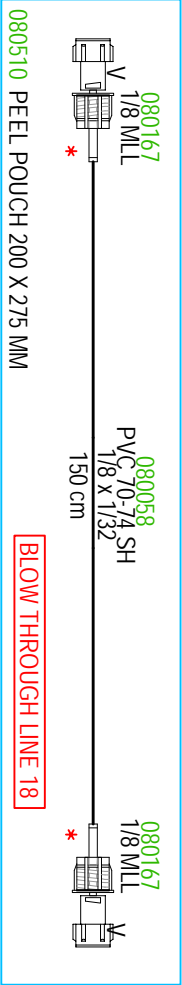


13. 080243
1/4 x 3/16
080520 PEEL POUCH 100 X 150 MM

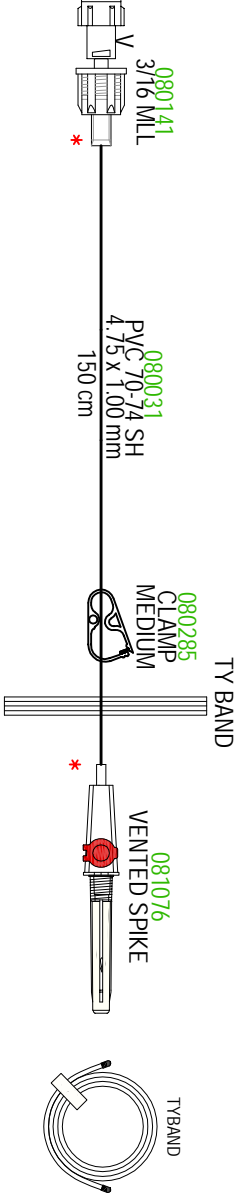


CUSTOMER:		DESCRIPTION:	
CHISINAU		CHILD PACK <6 KG	
MOLDOVA			
PRODUCT CODE:		DRAWING TYPE:	
CX-MI.026		Total Priming Volume:	
DRAWN BY:		ISSUED:	
INT. AMEND:		AMENDED:	
29/09/2017-SF		16/04/2019-SF	
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TERUMO		ISSUE No: 5	

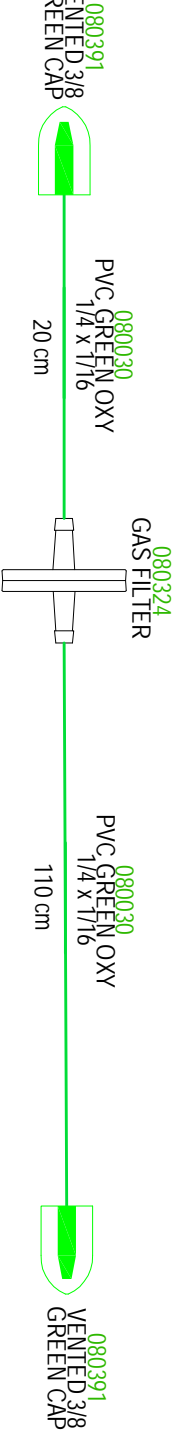
17.



18.



19. VENTED 3/8 GREEN CAP



CUSTOMER:

CHISINAU
MOLDOVA

DESCRIPTION:

CHILD PACK <6 KG

PRODUCT CODE:

CX-ML026

DRAWING TYPE:

PRODUCTION

Total Priming Volume:

DRAWN BY:

STEPHEN FLYNN

ISSUED:

08/12/2016

ISSUE No: 5

INT. AMEND:

29/09/2017-SF

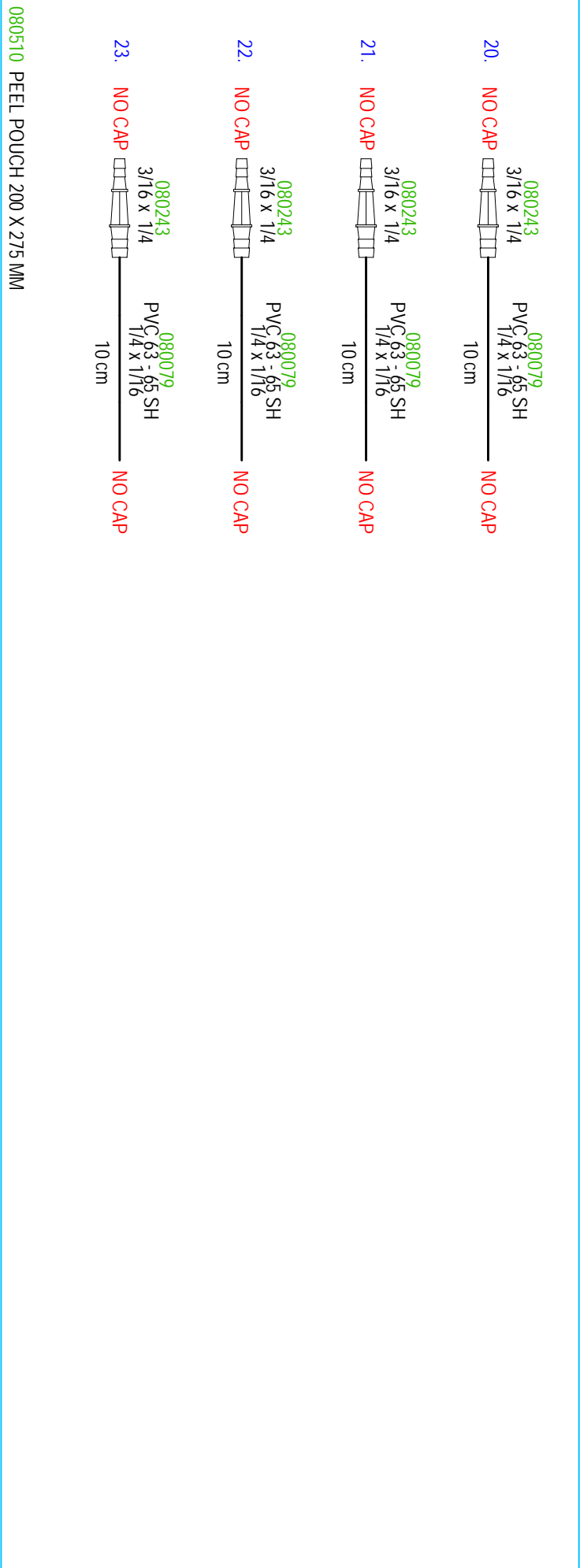
AMENDED:

16/04/2019-SF

SHEET No: 3/5

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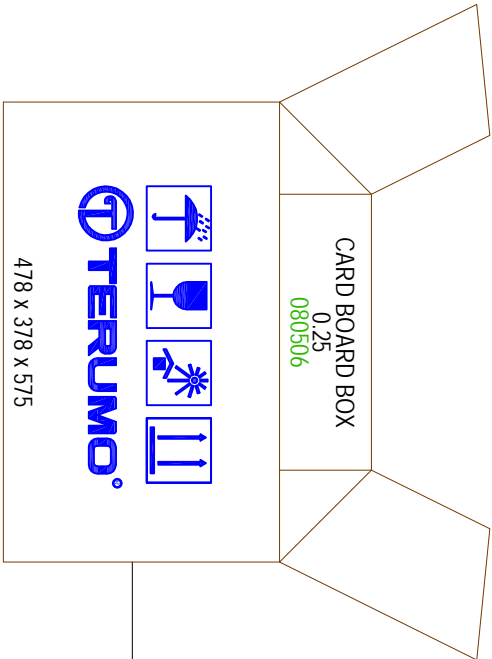
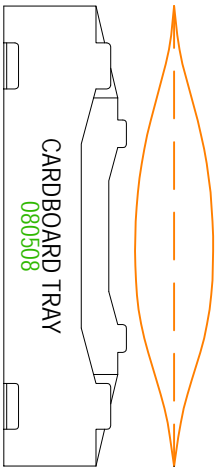
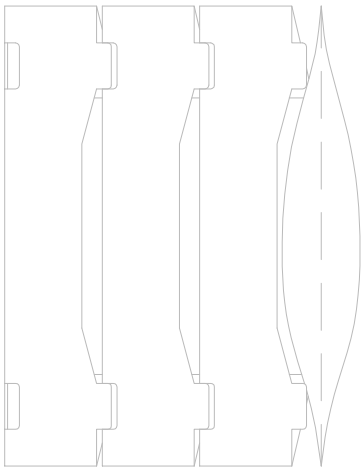
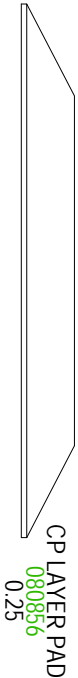


080510 PEEL POUCH 200 X 275 MM
080483 GAS POUCH 508 X 648 X 165 MM

CUSTOMER:		DESCRIPTION:	
CHISINAU		CHILD PACK <6 KG	
MOLDOVA			
PRODUCT CODE:	DRAWING TYPE:	Total Priming Volume:	
CX-MI026	PRODUCTION		

DRAWN BY:	STEPHEN FLYNN	ISSUED:	08/12/2016	ISSUE No:	5
INT. AMEND:	29/09/2017-SF	AMENDED:	16/04/2019-SF	SHEET No:	4/5
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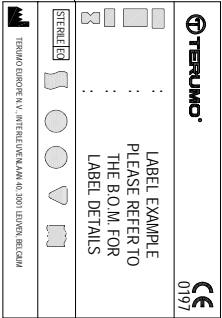
TERUMO



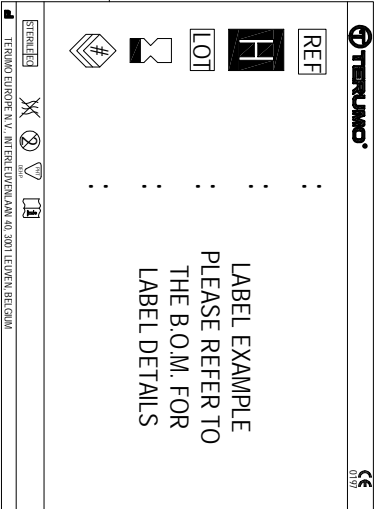
PACKING INFORMATION

EACH GAS POUCH IS TO BE PACKED IN A
CARDBOARD TRAY, ONE ON TOP OF
ANOTHER. 4 PACKS PER BOX

PACK LABEL EXAMPLE



BOX LABEL EXAMPLE



CUSTOMER:	DESCRIPTION:
CHINAU	CHILD PACK <6 KG
MOLDOVA	
PRODUCT CODE:	DRAWING TYPE: Total Priming Volume:
CX-MI026	PRODUCTION

DRAWN BY: STEPHEN FLYNN	ISSUED: 08/7/2016	ISSUE No.: 5
INT. AMEND: 29/09/2017-SF	AMENDED: 16/04/2019-SF	SHEET No.: 5/5
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TERUMO		

Certificate

Quality Management System EN ISO 13485:2016

Registration No.: SX 1567993-1

Organization: Terumo Corporation
Ashitaka Plant
150, Maimaigi-cho
Fujinomiya-shi
Shizuoka,
418-0015 Japan

Scope: Design and Development, Manufacture, Service and Sterilization (ETO, E-beam) of

- Cardiopulmonary Bypass Arterial Line Blood Filter
- Heart-Lung Bypass Defoamer
- Cardiotomy Reservoir
- Haemoconcentration Filter
- Extra-corporeal Membrane Oxygenator
- Cardiopulmonary Bypass Blood Reservoir
- Angiographic Catheter
- Stents
- Balloon Dilatation Catheter
- Catheter Guide Wire
- Catheter Introducer
- Wire Twister
- Guiding Catheter
- Extension Tube
- Coronary Imaging Catheters
- Centrifugal Pump
- Radial Artery Hemostasis Band

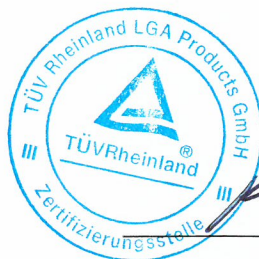
The Certification Body of TÜV Rheinland LGA Products GmbH certifies that the organization has established and applies a quality management system for medical devices.
Proof has been furnished that the requirements specified in the abovementioned standard are fulfilled. The quality management system is subject to yearly surveillance.

Report No.: 12031333 010

Effective date: 2021-01-10

Expiry date: 2023-07-09

Issue date: 2020-12-23



Masahiro Asami

TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany



Certificate

Quality Management System EN ISO 13485:2016

Registration No.: SX 1567993-1

Organization: Terumo Corporation
Ashitaka Plant
150, Maimaigi-cho
Fujinomiya-shi
Shizuoka,
418-0015 Japan

Design and Development, Manufacture, Service and
Sterilization (ETO, E-beam) of

- Temperature Control Unit for Heart-Lung Bypass System Module
- Air/Fluid Level Detector for Heart-Lung Bypass System Module
- Centrifugal Pump Controller
- Syringe Infusion Pump
- Infusion Pump
- Clinical Electronic Thermometer
- Deep Body Temperature Monitor
- Clinical Electronic Blood-Pressure Meter
- Medical Equipment for Blood Collection
- Medical Equipment for APD Systems
- Sterile Tube Connecting Systems
- Coronary Optical Coherence Tomography Systems
- Blood Glucose Meters for Blood Glucose Monitoring Systems

Report No.: 12031333 010

Effective date: 2021-01-10

Expiry date: 2023-07-09

Issue date: 2020-12-23



Masahiro Asami
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

Certificate

Quality Management System EN ISO 13485:2016

Registration No.: SX 1567993-1

Organization: Terumo Corporation
Ashitaka Plant
150, Maimaigi-cho
Fujinomiya-shi
Shizuoka,
418-0015 Japan

The scope of certification also covers the following:

No.	Facility	Scope
/01	Terumo Corporation Ashitaka Plant 150, Maimaigi-cho Fujinomiya-shi Shizuoka, 418-0015 Japan	Activities related to Design and Development, Manufacture and Sterilization (ETO, E-beam) of the same as the scope of the main certificate except for design and development of Blood Glucose Meters for Blood Glucose Monitoring Systems.


Report No.: 12031333 010

Effective date: 2021-01-10

Expiry date: 2023-07-09

Issue date: 2020-12-23




Masahiro Asami
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

Certificate

Quality Management System EN ISO 13485:2016

Registration No.: SX 1567993-1

Organization: Terumo Corporation
Ashitaka Plant
150, Maimaigi-cho
Fujinomiya-shi
Shizuoka,
418-0015 Japan

The scope of certification also covers the following:

/02 Terumo Corporation - Tokyo office
3-20-2 Nishi-Shinjuku
Shinjuku-ku, Tokyo
163-1450 Japan

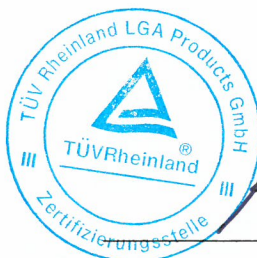
Activities related to service of all the active medical devices in the scope of the main certificate except for Blood Glucose Meters for Blood Glucose Monitoring Systems. Specifically, Temperature Control Unit for Heart-Lung Bypass System Module, Air/Fluid Level Detector for Heart-Lung Bypass System Module, Centrifugal Pump Controller, Syringe Infusion Pump, Infusion Pump, Clinical Electronic Thermometer, Deep Body Temperature Monitor, Clinical Electronic Blood-Pressure Meter, Medical Equipment for Blood Collection, Medical Equipment for APD Systems, Sterile Tube Connecting Systems, Coronary Optical Coherence Tomography Systems.

Report No.: 12031333 010

Effective date: 2021-01-10

Expiry date: 2023-07-09

Issue date: 2020-12-23



Masahiro Asami
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

Certificate

Quality Management System EN ISO 13485:2016

Registration No.: SX 1567993-1

Organization: Terumo Corporation
Ashitaka Plant
150, Maimaigi-cho
Fujinomiya-shi
Shizuoka,
418-0015 Japan

The scope of certification also covers the following:

/03 Terumo Corporation, Shonan Center
1500 Inokuchi, Nakai-machi
Ashigarakami-gun, Kanagawa
259-0151 Japan

Activities related to Design and Development and Service of all the active medical devices in the scope of the main certificate except for Blood Glucose Meters for Blood Glucose Monitoring Systems. Specifically, Temperature Control Unit for Heart-Lung Bypass System Module, Air/Fluid Level Detector for Heart-Lung Bypass System Module, Centrifugal Pump Controller, Syringe Infusion Pump, Infusion Pump, Clinical Electronic Thermometer, Deep Body Temperature Monitor, Clinical Electronic Blood-Pressure Meter, Medical Equipment for Blood Collection, Medical Equipment for APD Systems, Sterile Tube Connecting Systems, Coronary Optical Coherence Tomography Systems.


Report No.: 12031333 010

Effective date: 2021-01-10

Expiry date: 2023-07-09

Issue date: 2020-12-23




Masahiro Asami
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

Certificate



Quality Management System EN ISO 13485:2016

Registration No.: SX 1567993-1

Organization: Terumo Corporation
Ashitaka Plant
150, Maimaigi-cho
Fujinomiya-shi
Shizuoka,
418-0015 Japan

The scope of certification also covers the following:

/04 Terumo Corporation - ME Center
(Nagaizumi)
1002-1 Shimonagakubo
Nagaizumi-cho, Sunto-gun, Shizuoka
411-0934 Japan

Activities related to Design and Development, Manufacture and Service of all the active medical devices in the scope of the main certificate except for Blood Glucose Meters for Blood Glucose Monitoring Systems. Specifically, Temperature Control Unit for Heart-Lung Bypass System Module, Air/Fluid Level Detector for Heart-Lung Bypass System Module, Centrifugal Pump Controller, Syringe Infusion Pump, Infusion Pump, Clinical Electronic Thermometer, Deep Body Temperature Monitor, Clinical Electronic Blood-Pressure Meter, Medical Equipment for Blood Collection, Medical Equipment for APD Systems, Sterile Tube Connecting Systems, Coronary Optical Coherence Tomography Systems.


Report No.: 12031333 010

Effective date: 2021-01-10

Expiry date: 2023-07-09

Issue date: 2020-12-23




Masahiro Asami
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

6 / 6

DECLARATION OF CONFORMITY

We, **TERUMO CORPORATION**

44-1, 2-chome, Hatagaya, Shibuya-ku, Tokyo 151-0072, Japan

being the manufacturer of:

CAPIOX FX

Product : Extra-corporeal Membrane Oxygenator

declare that the above products of **Class IIa** are in conformity with the provisions of the EC Council Directive 93/42/EEC of 14 June 1993, as amended, concerning medical devices, and have been subject to the conformity assessment procedure laid down in Article 11, 2 and 11, 3(a) of the Directive, relating to the "Full quality assurance" set out in Annex II, and by certification of Annex II, excluding Section 4 under the supervision of TÜV Rheinland LGA Products GmbH (Registration No.: HD 60121893 0001), Tillystraße 2, 90431 Nürnberg Germany, as Notified Body authorized by the German Competent Authority and carrying the Notified Body No. 0197.

Authorized European Representative :

TERUMO EUROPE N.V.

Interleuvenlaan 40, 3001 Leuven, Belgium

Object of the declaration: see appendix A

Tokyo, August 30, 2017

(place and date of issue)



Toshio Nakashima

General Manager

Quality Assurance Department

TERUMO CORPORATION

Appendix A - List of Code Number Structure

C X * F X □ □ □ □ □ □
1 2 3 4 5 6 7 8 9 10 11

Character number	Character & Meaning
1,2,4,5	Product name CAPIOX FX
3	Destination * : for export
6-7	Effective fiber surface area 25 : approx. 2.5m ² 05 : approx. 0.5m ² 15 : approx. 1.5m ²
8	Availability of hardshell venous reservoir R : Available Blank : Not available
9	Reserve W : Blood outlet port orientation is left when water ports faces this side. E : Blood outlet port orientation is right when water ports faces this side.
10-11	Types of hardshell venous reservoir * ¹ 30 : With 3000mL Reservoir 40 : With 4000mL Reservoir * ¹ FX15 only

Certificate

Quality Management System
EN ISO 13485:2016

Registration No.: SX 1485480-1

Organization: Terumo Corporation
44-1, 2-chome, Hatagaya
Shibuya-ku, Tokyo
151-0072 Japan

Scope: Design and Development, Manufacture, Distribution and Service of

- Angiographic Catheter and Accessories
- Anti-adhesion System
- Balloon Dilatation Catheter
- Blood Collection/Transfusion Device and Accessories
- Blood Glucose Monitoring system
- Cartridge Injection System
- Catheter Introducer and Accessories
- Electronic Sphygmomanometer
- Electronic Thermometer
- Embolization Prosthesis and Accessories
- Endoscopic Vessel Harvesting System
- Extracorporeal Circulation Device and Accessories
- Falloposcopic Tuboplasty Device and Accessories
- Guide Wire and Accessories
- Guiding/Micro Catheter and Accessories
- Infusion Pump
- Infusion Set and Accessories

The Certification Body of TÜV Rheinland LGA Products GmbH certifies that the organization has established and applies a quality management system for medical devices.
Proof has been furnished that the requirements specified in the abovementioned standard are fulfilled. The quality management system is subject to yearly surveillance.

Report No.: 150241635-301
Effective date: 2021-08-30
Expiry date: 2023-08-29
Issue date: 2021-08-29



Michiaki Aihara
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

Certificate

**Quality Management System
EN ISO 13485:2016**

Registration No.: SX 1485480-1

Organization: Terumo Corporation
44-1, 2-chome, Hatagaya
Shibuya-ku, Tokyo
151-0072 Japan

- Intravascular Imaging Catheter and Accessories
- Intravascular Imaging System and Accessories
- Intravenous Catheter
- Left-Ventricular Assist System
- Needle
- Open-heart surgery devices and Accessories
- Oral Care Device and Accessories
- Peritoneal Dialysis Device and Accessories
- Pneumatically-powered Massager
- Prefillable Syringe
- Pulse Oximeter
- Radial Artery Hemostasis Device and Accessories
- Stent System
- Syringe
- Syringe Infusion Pump
- Syringe with Needle
- Thrombus Removal Device
- Tube Catheter and Accessories
- Urine test strip
- Vascular Closure Device
- Vascular Inspection/Treatment Kit
- Vascular prosthesis and Accessories
- Wearable Infusion Pump

Report No.: 150241635-301
Effective date: 2021-08-30
Expiry date: 2023-08-29
Issue date: 2021-08-29



Michiaki Aihara
Michiaki Aihara
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

Certificate

**Quality Management System
EN ISO 13485:2016**

Registration No.: SX 1485480-1

Organization: Terumo Corporation
44-1, 2-chome, Hatagaya
Shibuya-ku, Tokyo
151-0072 Japan

The scope of certification also covers the following:

No.	Facility	Scope
/01	c/o Terumo Corporation 44-1, 2-chome, Hatagaya Shibuya-ku, Tokyo 151-0072 Japan	Aspects related to Design and Development, Manufacture, Distribution and Service.
/02	c/o Terumo Corporation - Tokyo office 3-20-2, Nishi-Shinjuku Shinjuku-ku, Tokyo 163-1450 Japan	Aspects related to Design and Development and activities related to corporate management processes.
/03	c/o Terumo Corporation, Shonan Center 1500, Inokuchi, Nakai-machi Ashigarakami-gun, Kanagawa 259-0151 Japan	Aspects related to Distribution and activities related to customer communication processes.

Report No.: 150241635-301
Effective date: 2021-08-30
Expiry date: 2023-08-29
Issue date: 2021-08-29

Certificate

Quality Management System
EN ISO 13485:2016

Registration No.: SX 1485480-1

Organization: Terumo Corporation
44-1, 2-chome, Hatagaya
Shibuya-ku, Tokyo
151-0072 Japan

Scope: Design and Development, Manufacture, Distribution and Service of

- Angiographic Catheter and Accessories
- Anti-adhesion System
- Balloon Dilatation Catheter
- Blood Collection/Transfusion Device and Accessories
- Blood Glucose Monitoring system
- Cartridge Injection System
- Catheter Introducer and Accessories
- Electronic Sphygmomanometer
- Electronic Thermometer
- Embolization Prosthesis and Accessories
- Endoscopic Vessel Harvesting System
- Extracorporeal Circulation Device and Accessories
- Falloposcopic Tuboplasty Device and Accessories
- Guide Wire and Accessories
- Guiding/Micro Catheter and Accessories
- Infusion Pump
- Infusion Set and Accessories

The Certification Body of TÜV Rheinland LGA Products GmbH certifies that the organization has established and applies a quality management system for medical devices.
Proof has been furnished that the requirements specified in the abovementioned standard are fulfilled. The quality management system is subject to yearly surveillance.

Report No.: 150241635-301
Effective date: 2021-08-30
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Michiaki Aihara
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

Certificate

**Quality Management System
EN ISO 13485:2016**

Registration No.: SX 1485480-1

Organization: Terumo Corporation
44-1, 2-chome, Hatagaya
Shibuya-ku, Tokyo
151-0072 Japan

- Intravascular Imaging Catheter and Accessories
- Intravascular Imaging System and Accessories
- Intravenous Catheter
- Left-Ventricular Assist System
- Needle
- Open-heart surgery devices and Accessories
- Oral Care Device and Accessories
- Peritoneal Dialysis Device and Accessories
- Pneumatically-powered Massager
- Prefillable Syringe
- Pulse Oximeter
- Radial Artery Hemostasis Device and Accessories
- Stent System
- Syringe
- Syringe Infusion Pump
- Syringe with Needle
- Thrombus Removal Device
- Tube Catheter and Accessories
- Urine test strip
- Vascular Closure Device
- Vascular Inspection/Treatment Kit
- Vascular prosthesis and Accessories
- Wearable Infusion Pump

Report No.: 150241635-301
Effective date: 2021-08-30
Expiry date: 2023-08-29
Issue date: 2021-08-29



Michiaki Aihara
Michiaki Aihara
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

Certificate

**Quality Management System
EN ISO 13485:2016**

Registration No.: SX 1485480-1

Organization: Terumo Corporation
44-1, 2-chome, Hatagaya
Shibuya-ku, Tokyo
151-0072 Japan

The scope of certification also covers the following:

No.	Facility	Scope
/01	c/o Terumo Corporation 44-1, 2-chome, Hatagaya Shibuya-ku, Tokyo 151-0072 Japan	Aspects related to Design and Development, Manufacture, Distribution and Service.
/02	c/o Terumo Corporation - Tokyo office 3-20-2, Nishi-Shinjuku Shinjuku-ku, Tokyo 163-1450 Japan	Aspects related to Design and Development and activities related to corporate management processes.
/03	c/o Terumo Corporation, Shonan Center 1500, Inokuchi, Nakai-machi Ashigarakami-gun, Kanagawa 259-0151 Japan	Aspects related to Distribution and activities related to customer communication processes.

Report No.: 150241635-301
Effective date: 2021-08-30
Expiry date: 2023-08-29
Issue date: 2021-08-29



Michiaki Aihara
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 13485:2016

This is to certify that:

Terumo Cardiovascular Systems
Corporation
125 Blue Ball Rd
Elkton
Maryland
21921
USA

Holds Certificate No:

FM 584812

and operates a Quality Management System which complies with the requirements of ISO 13485:2016 for the following scope:

Design and Development, Manufacturing and Distribution of Blood Oxygenators, Centrifugal Pumps, Cardioplegia Delivery Sets, Cardiovascular Procedure Kits, Pressure Relief Valves, CDI Cuvettes, CDI Shunt Sensors, CDI Calibration Gases, Blood Reservoirs and Endoscopic Vessel Harvesting Systems, On and Off Pump Coronary Artery Bypass Graft Instruments/Devices and Accessories.



For and on behalf of BSI:

Gary E Slack, Senior Vice President - Medical Devices

Original Registration Date: 2012-05-08

Latest Revision Date: 2021-10-13

Effective Date: 2021-10-15

Expiry Date: 2024-10-14

Page: 1 of 1



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EC Certificate - Full Quality Assurance System

Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

No.**CE 584795****Issued To:**

**Terumo Cardiovascular Systems
Corporation
125 Blue Ball Rd
Elkton
Maryland
21921
USA**

In respect of:

Design, Development and Manufacture of Sterile Blood Oxygenators, Centrifugal Pumps, Cardioplegia Delivery Sets, Pressure Relief Valves, Cuvettes, Shunt Sensors, Blood Reservoirs, Vessel Harvesting Systems, Devices for heart stabilization and positioning for use in open heart surgery.

Those aspects of Annex II related to securing and maintaining Sterility in the manufacture of the suture holder.

on the basis of our examination of the quality assurance system under the requirements of Council Directive 93/42/EEC, Annex II excluding section 4. The quality assurance system meets the requirements of the directive. For the placing on the market of class III products an Annex II section 4 certificate is required.

For and on behalf of BSI, a Notified Body for the above Directive (Notified Body Number 2797):



Gary E Slack, Senior Vice President - Medical Devices

First Issued: **2012-05-31**

Date: **2021-05-17**

Expiry Date: **2024-05-26**

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Page 1 of 3

Validity of this certificate is conditional on the quality system being maintained to the requirements of the Directive as demonstrated through the required surveillance activities of the Notified Body. This approval excludes all products designed and/or manufactured by a third party on behalf of the company named on this certificate, unless specifically agreed with BSI.

This certificate was issued electronically and is bound by the conditions of the contract.

EC Certificate - Full Quality Assurance System

Supplementary Information to CE 584795

Issued To:

**Terumo Cardiovascular Systems
Corporation
125 Blue Ball Rd
Elkton
Maryland
21921
USA**

Number	Device Name	Intended purpose per IFU
Class III		
---	CDI Shunt Sensors	See CE 586827
Class IIb		
MD1104	Vessel Harvesting System	The VirtuoSaph Plus Endoscopic Vessel Harvesting System VSP550EX is indicated for use in minimally invasive surgery allowing access for vessel harvesting and is indicated for adult patients undergoing endoscopic surgery for arterial bypass. It is indicated for cutting tissue and controlling bleeding through coagulation, and for adult patients requiring blunt dissection of tissue including dissection of blood vessels of the extremities. Extremity procedures include tissue dissection and/or vessel harvesting along the saphenous vein for coronary artery and peripheral artery bypass. The radial artery is only used for coronary artery bypass.

First Issued: **2012-05-31**Date: **2021-05-17**Expiry Date: **2024-05-26**

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Page 2 of 3

Validity of this certificate is conditional on the quality system being maintained to the requirements of the Directive as demonstrated through the required surveillance activities of the Notified Body. This approval excludes all products designed and/or manufactured by a third party on behalf of the company named on this certificate, unless specifically agreed with BSI.

This certificate was issued electronically and is bound by the conditions of the contract.

Information and Contact: BSI, Say Building, John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands Tel: + 31 20 346 0780

BSI Group The Netherlands B.V. registered in The Netherlands under 33264284.

A member of BSI Group of Companies.

EC Certificate - Full Quality Assurance System

Supplementary Information to CE 584795

Issued To:

**Terumo Cardiovascular Systems
Corporation
125 Blue Ball Rd
Elkton
Maryland
21921
USA**

Number	Device Name	Intended purpose per IFU
Class IIa		
MD0102	Cardio Pulmonary ByPass Circuit and Cardioplegia Accessories	---
MD0106	Devices for heart stabilization and positioning	---
Class Is		
MD0106	Suture Holder	---

First Issued: **2012-05-31**Date: **2021-05-17**Expiry Date: **2024-05-26**

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Page 3 of 3

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BSI Group The Netherlands B.V. registered in The Netherlands under 33264284.

A member of BSI Group of Companies.

EC Certificate - Full Quality Assurance System

Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 584795**
 Date: **2021-05-17**
 Issued To: **Terumo Cardiovascular Systems Corporation**
125 Blue Ball Rd
Elkton
Maryland
21921
USA

Subcontractor:	Service(s) supplied
Aomori Olympus Co., Ltd 2-248-1, Okkonoki Kuroishi-Shi AOMORI 036-0357 Japan	Manufacture
Indo-MIM Pvt. Ltd. Plot #45 (P) KIADB Industrial Area Hoskote Bangalore 562 114 Karnataka India	Manufacture
Isomedix Operations, Inc. 435 Whitney Street Northborough Massachusetts 01532 USA	ETO Sterilization

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EC Certificate - Full Quality Assurance System

Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 584795**
 Date: **2021-05-17**
 Issued To: **Terumo Cardiovascular Systems Corporation**
125 Blue Ball Rd
Elkton
Maryland
21921
USA

Subcontractor:

Service(s) supplied

Sterigenics EO Canada, Inc.
 781 Pharmacy Avenue
 Toronto
 Ontario
 M1L3K2
 Canada

ETO Sterilization

Sterigenics US, LLC
 344 Bonnie Circle
 Corona
 California
 92880
 USA

Radiation (Gamma Sterilization)

Sterigenics US, LLC
 2311 Lincoln Avenue
 Hayward
 California
 94545
 USA

Radiation (Gamma Sterilization)

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EC Certificate - Full Quality Assurance System

Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 584795**
 Date: **2021-05-17**
 Issued To: **Terumo Cardiovascular Systems Corporation**
125 Blue Ball Rd
Elkton
Maryland
21921
USA

Subcontractor:	Service(s) supplied
Sterigenics US, LLC 84 Park Road Queensbury New York 12804 USA	ETO Sterilization
Surmodics, Inc. 9924 West 74th Street Eden Prairie Minnesota 55344 USA	Crucial Supplier
Terumo Cardiovascular Systems Corp. 6200 Jackson Road Ann Arbor Michigan 48103 USA	Design Development

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EC Certificate - Full Quality Assurance System

Directive 93/42/EEC on Medical Devices, Annex II excluding Section 4

List of Significant Subcontractors

Recognised as being involved in services relating to the product covered by:

Certificate No: **CE 584795**
 Date: **2021-05-17**
 Issued To: **Terumo Cardiovascular Systems Corporation**
125 Blue Ball Rd
Elkton
Maryland
21921
USA

Subcontractor:

Service(s) supplied

Terumo Europe N.V.
 Interleuvenlaan 40
 3001 Leuven
 Belgium

EU Representative

Terumo Medical Corporation
 950 Elkton Boulevard
 Elkton
 MD 21921
 USA

Radiation (Gamma Sterilization)

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EC Certificate - Full Quality Assurance System

Certificate History

Certificate No: **CE 584795**
Date: **2021-05-17**
Issued To: **Terumo Cardiovascular Systems Corporation**
125 Blue Ball Rd
Elkton
Maryland
21921
USA

Date	Reference Number	Action
31 May 2012	7805751	First issue. Transfer from another Notified Body.
14 August 2014	8180239	Extend scope to include devices for heart stabilization and positioning for use in open heart surgery; Remove "Cardiovascular Procedure Kits" from Scope. Add subcontractors relevant to heart stabilization and positioning devices: ARMM, Inc., Indo-US MIM Tec Pvt. Ltd., and Sterigenics Hayward, and Corona sites.
29 May 2015	8184532	Scope updated from "Endoscopic Vein Harvesting Systems" to "Endoscopic Vessel Harvesting Systems".
09 February 2017	8630231	Certificate renewal. Word 'sterile' added to scope. Crucial supplier SurModics added. Significant subcontractors ARMM Inc in California USA, Sterigenics US LLC in New Jersey USA and Sterigenics in NC USA removed. Administrative changes.
13 February 2019	7843590	Traceable to NB 0086.

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Page 1 of 3

Validity of this certificate is conditional on the quality system being maintained to the requirements of the Directive as demonstrated through the required surveillance activities of the Notified Body. This approval excludes all products designed and/or manufactured by a third party on behalf of the company named on this certificate, unless specifically agreed with BSI.

This certificate was issued electronically and is bound by the conditions of the contract.

Information and Contact: BSI, Say Building, John M. Keynesplein 9, 1066 EP Amsterdam, The Netherlands Tel: + 31 20 346 0780

BSI Group The Netherlands B.V. registered in The Netherlands under 33264284.

A member of BSI Group of Companies.

EC Certificate - Full Quality Assurance System

Certificate History

Certificate No: **CE 584795**
 Date: **2021-05-17**
 Issued To: **Terumo Cardiovascular Systems Corporation**
125 Blue Ball Rd
Elkton
Maryland
21921
USA

Date	Reference Number	Action
15 May 2020	9749499	Certificate renewal Addition of device table Update to certificate scope: <ul style="list-style-type: none"> - Removal of arterial filters - Removal of CDI from cuvettes and shunt - Removal of CDI calibration gases - Removal of Endoscopic from vessel harvesting systems - Removal of associated sterile and non-sterile accessories. - Addition of "Those aspects of Annex II related to securing and maintaining Sterility in the manufacture of the suture holder." Updates to certificate subcontractors: <ul style="list-style-type: none"> - Removal of Olympus Winter - Administrative correction in name and address of Indo-MIM Pvt. Ltd. - Replaced Road with Boulevard in address of Terumo Medical Corporation subcontractor.
17 May 2021	3430430	Addition of sterilization subcontractor Sterigenics EO Canada, Inc. for the Terumo Capiox Oxygenators / Reservoirs.

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Page 2 of 3

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A member of BSI Group of Companies.

EC Certificate - Full Quality Assurance System

Certificate History

Certificate No: **CE 584795**
Date: **2021-05-17**
Issued To: **Terumo Cardiovascular Systems Corporation**
125 Blue Ball Rd
Elkton
Maryland
21921
USA

Date	Reference Number	Action
Non-significant changes approved after the 26th May 2021 as per the Transitional Provisions of MDR Article 120.3		
16 June 2022	3682750	Addition of subcontractor Isomedix Operations, Inc., 435 Whitney Street, Northborough, Massachusetts 01532 USA

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Page 3 of 3

Validity of this certificate is conditional on the quality system being maintained to the requirements of the Directive as demonstrated through the required surveillance activities of the Notified Body. This approval excludes all products designed and/or manufactured by a third party on behalf of the company named on this certificate, unless specifically agreed with BSI.

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A member of BSI Group of Companies.

16 June 2022

Terumo Cardiovascular Systems
Corporation
125 Blue Ball Rd
Elkton
Maryland
21921
USA

To whom it may concern,

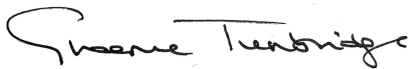
The transitional provisions specified in MDR Article 120(3) prohibit Notified Bodies from issuing new certificates or amending, modifying, supplementing any existing MDD/AIMDD certificates from 26th May 2021.

This letter is to confirm that BSI has reviewed and approved the change(s) detailed in the table below. These changes do not represent a significant change in design or intended purpose under MDR Article 120(3) and as per the guidance provided in MDCG 2020-3. The related MDD certificate specified below remains valid until the expiry date specified on the certificate.

Certificate	Directive and Annex	Reference Number	Changes approved
CE 584795	93/42/EEC Annex II excluding Section 4	3682750	Addition of subcontractor Isomedix Operations, Inc., 435 Whitney Street, Northborough, Massachusetts 01532 USA

Should you have any queries concerning your certification, or if we can be of further assistance to you, please contact your BSI Scheme Manager.

Yours sincerely,



Graeme Tunbridge
Senior Vice President, Medical Devices

Certificate

Quality Management System EN ISO 13485:2016

Registration No.: SX 1594584-1

Organization: TERUMO EUROPE N.V.
Interleuvenlaan 40
3001 Leuven
Belgium

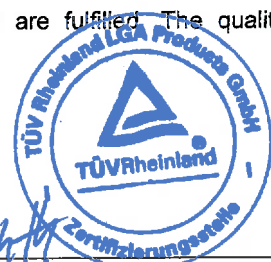
Scope: Design and development, manufacture and sterilization of syringes, needles, administration sets, angiographic interventional catheter systems, extra corporeal circuits for open heart surgery and ancillary devices, non-vascular guide wires, short peripheral catheters and related accessories.

Clinical investigation, marketing and distribution of active and non-active medical devices, active implantable medical devices, and in vitro diagnostic medical devices.

Installation and serving of active medical devices.

The Certification Body of TÜV Rheinland LGA Products GmbH certifies that the organization has established and applies a quality management system for medical devices. Proof has been furnished that the requirements specified in the abovementioned standard are fulfilled. The quality management system is subject to yearly surveillance.

Report No.: 3350367-50
Effective date: 2021-12-08
Expiry date: 2024-12-07
Issue date: 2021-11-25



D. Wiedemuth
Dipl.-Ing. (FH) D. Wiedemuth
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

Certificate

Quality Management System
EN ISO 13485:2016

Registration No.: SX 1594584-1

Organization: TERUMO EUROPE N.V.
Interleuvenlaan 40
3001 Leuven
Belgium

The scope of certification also covers the following sites:

No.	Facility	Scope
/01	c/o TERUMO EUROPE N.V. Interleuvenlaan 40 3001 Leuven Belgium	Design and development, manufacture and sterilization of syringes, needles, administration sets, angiographic interventional catheter systems, extra corporeal circuits for open heart surgery and ancillary devices, non-vascular guide wires, short peripheral catheters and related accessories. Clinical investigation, marketing and distribution of active and non-active medical devices, active implantable medical devices, and in vitro diagnostic medical devices. Installation and serving of active medical devices
/02	c/o Terumo Europe UK 3 Unity Grove Knowsley Business Park South Merseyside, Knowsley L34 9GT United Kingdom	Design and development, manufacture and sterilization of extra corporeal circuits for open heart surgery and ancillary devices

Report No.: 3350367-50
Effective date: 2021-12-08
Expiry date: 2024-12-07
Issue date: 2021-11-25

Certificate

Quality Management System
EN ISO 13485:2016

Registration No.: SX 1594584-1

Organization: TERUMO EUROPE N.V.
Interleuvenlaan 40
3001 Leuven
Belgium

The scope of certification also covers the following sites:

- | | | |
|-----|--|--|
| /03 | c/o Terumo Deutschland GmbH
Ludwig-Erhard-Str. 6
65760 Eschborn
Germany | Distribution of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |
| /04 | c/o Terumo France S.A.S.
Bâtiment Renaissance, 3 rond-point des
Saules 78280
Guyancourt
France | Distribution of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |
| /05 | c/o Terumo Italia S.r.l.
Via Paolo di Dono 73
00142 Roma
Italy | Distribution of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |
| /06 | c/o Terumo Europe España SL
Avda. Juan Carlos I, N°13-7 Planta
28806 Alcalá de Henares (Madrid)
Spain | Distribution of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |

Report No.: 3350367-50
Effective date: 2021-12-08
Expiry date: 2024-12-07
Issue date: 2021-11-25



D. Wiedemuth
Dipl.-Ing. (FH) D. Wiedemuth
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

Certificate



Quality Management System EN ISO 13485:2016

Registration No.: SX 1594584-1

Organization: TERUMO EUROPE N.V.
Interleuvenlaan 40
3001 Leuven
Belgium

The scope of certification also covers the following sites:

- | | | |
|-----|--|--|
| /07 | c/o Terumo Europe UK Ltd.
Otium House
2 Freemantle Road
Bagshot
Surrey
GU19 5LL
United Kingdom | Distribution of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |
| /08 | c/o Terumo Europe N.V.
Benelux Sales Division
Interleuvenlaan 40
3001 Leuven
Belgium | Distribution of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |
| /09 | c/o Terumo Sweden AB
Sven Källfets gata 16
SE-426 71 Västra Frölunda
Sweden | Distribution of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |
| /10 | c/o Terumo Deutschland GmbH
Zweigniederlassung Switzerland
Bodenackerstrasse 3
8957 Spreitenbach
Switzerland | Distribution of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |

Report No.: 3350367-50
Effective date: 2021-12-08
Expiry date: 2024-12-07
Issue date: 2021-11-25



Dipl.-Ing. (FH) D. Wiedemuth
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany

Certificate



Quality Management System EN ISO 13485:2016

Registration No.: SX 1594584-1

Organization: TERUMO EUROPE N.V.
Interleuvenlaan 40
3001 Leuven
Belgium

The scope of certification also covers the following sites:

- | | | |
|-----|--|--|
| /11 | c/o Terumo Europe N.V.
European Distribution Center
Brikkenovenstraat 48
3600 Genk
Belgium | Storage and distribution of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |
| /12 | c/o Terumo Europe N.V.
Terumo Interventional Systems
EMEA (TIS-EMEA)
Interleuvenlaan 40
3001 Leuven
Belgium | Marketing of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |
| /13 | c/o Terumo Europe N.V.
Terumo Cardiovascular Europe
Middle East & Africa (TCV-EMEA)
Ludwig-Erhard-Straße 6
65760 Eschborn
Germany | Marketing of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |

Report No.: 3350367-50
Effective date: 2021-12-08
Expiry date: 2024-12-07
Issue date: 2021-11-25



Dipl.-Ing. (FH) D. Wiedemuth
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany



Certificate



Quality Management System EN ISO 13485:2016

Registration No.: SX 1594584-1


Organization: TERUMO EUROPE N.V.
Interleuvenlaan 40
3001 Leuven
Belgium

The scope of certification also covers the following sites:

- | | | |
|-----|--|--|
| /14 | c/o Terumo Europe N.V.
Terumo Medical Products
EMEA (TMP-EMEA)
Interleuvenlaan 40
3001 Leuven
Belgium | Marketing of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |
| /15 | c/o Terumo Europe N.V.
Diabetes Management
EMEA (DM-EMEA)
Interleuvenlaan 40
3001 Leuven
Belgium | Marketing of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |
| /16 | c/o Terumo Europe N.V.
Terumo Pharmaceutical Solutions
Interleuvenlaan 40
3001 Leuven
Belgium | Marketing of active and non-active medical devices and active implantable medical devices |
| /17 | c/o Terumo Deutschland GmbH
Zweigniederlassung Austria
Liebermannstrasse F10-301
2345 Brunn am Gebirge
Austria | Distribution of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |

Report No.: 3350367-50
Effective date: 2021-12-08
Expiry date: 2024-12-07
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Dipl.-Ing. (FH) D. Wiedemuth
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany



Certificate



**Quality Management System
EN ISO 13485:2016**

Registration No.: SX 1594584-1

Organization: TERUMO EUROPE N.V.
Interleuvenlaan 40
3001 Leuven
Belgium

The scope of certification also covers the following sites:

- | | | |
|-----|--|--|
| /18 | c/o Terumo Europe N.V.
Emerging Market Division
Interleuvenlaan 40
3001 Leuven
Belgium | Distribution of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |
| /19 | c/o Terumo Poland Sp. Zoo
Wisniowy Business Park budynek D
ul. 1 Sierpnia 6
02-134 Warszawa
Poland | Distribution of active and non-active medical devices, active implantable medical devices, and in-vitro diagnostic medical devices |

Report No.: 3350367-50
Effective date: 2021-12-08
Expiry date: 2024-12-07
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Dipl.-Ing. (FH) D. Wiedemuth
TÜV Rheinland LGA Products GmbH
Tillystraße 2 · 90431 Nürnberg · Germany



EC Certificate
Directive 93/42/EEC Annex II, excluding Section 4
Full Quality Assurance System
Medical Devices

Registration No.: HD 60134707 0001

Report No.: 21240046 017

Manufacturer: TERUMO EUROPE N.V.
Interleuvenlaan 40
3001 Leuven
Belgium

Products: (see attachment for products and additional sites included)

Replaces Certificate, Registration No.: HD 60106290 0001


Expiry Date: 2024-05-26

The Notified Body hereby declares that the requirements of Annex II, excluding section 4 of the directive 93/42/EEC have been met for the listed products. The above named manufacturer has established and applies a quality assurance system, which is subject to periodic surveillance, defined by Annex II, section 5 of the aforementioned directive. For placing on the market of class III devices covered by this certificate an EC design-examination certificate according to Annex II, section 4 is required.

Effective Date: 2020-04-21

Date: 2020-04-21

Notified Body


Dipl.-Ing. (FH) D. Wiedemuth



TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg
TÜV Rheinland LGA Products GmbH is a Notified Body according to Directive 93/42/EEC concerning medical devices with the identification number 0197.

TÜV Rheinland
LGA Products GmbH
Tillystraße 2, 90431 Nürnberg

Doc. 1/2, Rev. 0

**Attachment to
Certificate**

Registration No.: HD 60134707 0001
Report No.: 21240046 017

Manufacturer: TERUMO EUROPE N.V.
Interleuvenlaan 40
3001 Leuven
Belgium

Products included:

- Syringes
- Needles
- Administration sets
- Extra corporeal circuits for open heart surgery
- Non-vascular guide wires
- Introducer for vascular access
- Angiographic Catheters
- Guidewire for Angiography

For the following devices the scope covers only
the aspects of the manufacture concerned with
the securing and maintaining sterile conditions:

- Ancillary devices for extracorporeal circuits
for open heart surgery
- Mixing needles

Date: 2020-04-21

Notified Body


D. Wiedemuth
Dipl.-Ing. (FH) D. Wiedemuth

TÜV Rheinland
LGA Products GmbH
Tillystraße 2, 90431 Nürnberg

**Attachment to
Certificate**

Registration No.: HD 60134707 0001
Report No.: 21240046 017

Manufacturer: TERUMO EUROPE N.V.
Interleuvenlaan 40
3001 Leuven
Belgium

additional sites included:

Terumo Europe N.V.
European Distribution Center
Brikkenovenstraat 48
3600 Genk, Belgium

Terumo Europe UK
3 Unity Grove, Knowsley Business Park South
Knowsley, Merseyside L34 9GT, United Kingdom

Date: 2020-04-21

Notified Body



D. Wiedemuth
Dipl.-Ing. (FH) D. Wiedemuth

DECLARATION OF CONFORMITY

We, **TERUMO EUROPE N.V.**
Interleuvenlaan 40,
3001 Leuven, Belgium

being the manufacturer of:

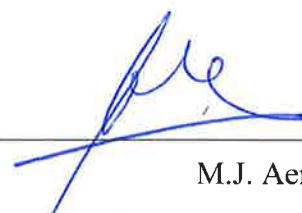
TUBING SET with X-coating (optional)

Product: Extra-Corporeal Blood Circuit for open heart surgery
(See Appendix A for related product codes)

declare that the above product of Class IIa is in conformity with the provisions of the EC Council Directive 93/42/EEC of 14 June 1993, as amended, concerning medical devices, and has been subject to the conformity assessment procedure laid down in Article 11.2 and 11.3(a) of the Directive, relating to the "Full Quality Assurance System" set out in Annex II, and by certification of Annex II.3 (Registration No: HD 60106290 0001), under the supervision of TÜV Rheinland LGA Products GmbH as Notified Body authorized by the German Competent Authority and carrying the Notified Body No. 0197.

Leuven, 21 December 2018

(place and date of issue)



M.J. Aerts

VP Regulatory & Quality

TERUMO EUROPE N.V.

Appendix A – Related product codes

The product code is composed of 10 digits maximum and explained as follows:

Customer requested device configurations

1	2	3	4	5	6	7	8	9	10
C	X	For Capiox® Cardiovascular Devices							
Manufacturer		-	Terumo Europe						
Coded countries of European sales branches/other sales blocks			c	c					
Sequential number					n	n	n	001, ...	
X-coating							X	Void if no X-coated component is included	
Variant pack requested by customer							A	Sequential letter (A, B, ..., Z) – void if no variant pack	

Standard device configurations

1	2	3	4	5	6	7	8	9	10
C	X	For Capiox® Cardiovascular Devices							
Manufacturer		-	Terumo Europe						
Standard Finished product		F							
Type of pack			T	S	Terumo Standard Pack				
Sequential number					0	0	1		
X-coating							X	X-coated components	

Accessory packs for reduced prime circuits:

- Standard device configurations

1	2	3	4	5	6	7
C	X	For Capiiox® Cardiovascular Devices				
Manufacturer		-	Terumo Europe			
Standard ROCsafe Accessory Pack		R	O	C		
Type of Accessory pack				A	with flexible venous resevoir	
				B	with hardshell venous reservoir and rigid adult sucker	
				C	with rigid adult sucker	
				G	Table Set	
				H	for pressure monitoring	

- Customer requested device configurations

1	2	3	4	5	6	7	8	9
C	X	For Capiiox® Cardiovascular Devices						
Manufacturer		-	Terumo Europe					
Reduced prime optimised circuit		R	O	C				
Sequential letter				N	A, B, ...			
Sequential number				n	n	01, ...		



Terumo Cardiovascular Group
125 Blue Ball Road, Elkton, Maryland 21921
Main: 410.398.8500
Toll-free: 800.283.7866
www.terumo-cvgroup.com

DECLARATION OF CONFORMITY

We, TERUMO CARDIOVASCULAR SYSTEMS CORPORATION, located at 125 Blue Ball Rd., Elkton, Maryland USA 21921, and being the manufacturer of:


Terumo® Capiox Oxygenators/Reservoirs

Product Codes: CX*SX18R, CX*SX18X, CX*SX18RX, CX*SX18R03, CX*SX25R, CX*SX25X, CX*SX25RX, 3CX*RX25RE, 3CX*RX25RW, 3CX*RX15RW30, 3CX*RX15RE30, 3CX*RX15RW40, 3CX*RX15RE40, 3CX*FX15RW30C, 3CX*FX15RW40C, 3CX*FX15RE30C, 3CX*FX15RE40C, 3CX*FX25REC, 3CX*FX25RWC, 3CX*R4000C

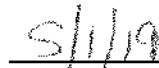
Classification: Class IIa – Rule 3 of Annex IX

Declare that the above products are in conformity with the provisions of the EC Council directive 93/42/EEC of 14 June 1993, as amended, concerning medical devices, and have been subject to the conformity assessment procedure laid down in the EC Council Directive 93/42/EEC Article 11, 2 and 3(a) relating to the "Full quality assurance" set out in Annex II, under the supervision of BSI (Certificate Registration No. CP 584795), as Notified Body authorized by the Netherlands Competent Authority and carrying the Notified Body No. 2797.

Authorized European Representative:
TERUMO EUROPE N.V.
Interleuvenlaan 40
3001 Leuven, Belgium



Adam Pickholtz
Regulatory Affairs Manager
Terumo Cardiovascular Systems Corp.
Elkton, Maryland 21921 USA



Date