



Paragon Adult Maxi PMP Oxygenator

Instructions for Use



Read entire contents prior to using this device

Contents

1. Oxygenator	2
1.1. Product Description.....	2
1.2. Ports & Path Flows	2
1.3. Specification.....	3
1.4. Indications	4
1.5. Contra-indications	4
1.6. Duration of Use.....	4
1.7. Clinical Benefit.....	4
1.8. Combination Products	4
1.9. Storage	4
1.10. Performance Data	5
2. Warnings	7
3. Handling.....	8
4. Filling Procedure	9
5. Application of the Oxygenator System.....	9
6. Re-circulation at a low flow rate (hypothermia at circulatory arrest)	10
7. Termination of Bypass.....	10
8. Air Removal from the Oxygenator	11
9. Replacement of an Oxygenator	11
10. Fittings	11
11. Explanation of Symbols.....	12
12. Information available upon request	12
13. Warranty and Liability Statement.....	12
14. Further Information	13
15. References	13

1. Oxygenator

1.1. Product Description

The Paragon Adult Maxi PMP Oxygenator (hereafter referred to as the Paragon Oxygenator(s)) is a hollow fibre membrane oxygenator with an integrated heat exchanger. The Paragon Oxygenator facilitates the gas exchange and the regulation of blood temperature during extracorporeal life support (ECLS). Paragon Oxygenators are a single use disposable product, which are non-toxic and non-pyrogenic. Pyrogen and bioburden testing has been carried out to assess acceptable limits of biological contaminants. Paragon Oxygenators are supplied with a Rheopak surface coating that reduces platelet adhesion to coated surfaces. Paragon Oxygenators are supplied sterile.

The gas exchange section of the Paragon Oxygenator is formed from plasma-tight hollow fibre membranes. Gas flow takes places through the internal lumen of the fibres. Blood in contact with the outside of the fibres allows oxygen to diffuse into the venous blood and carbon dioxide to be removed.

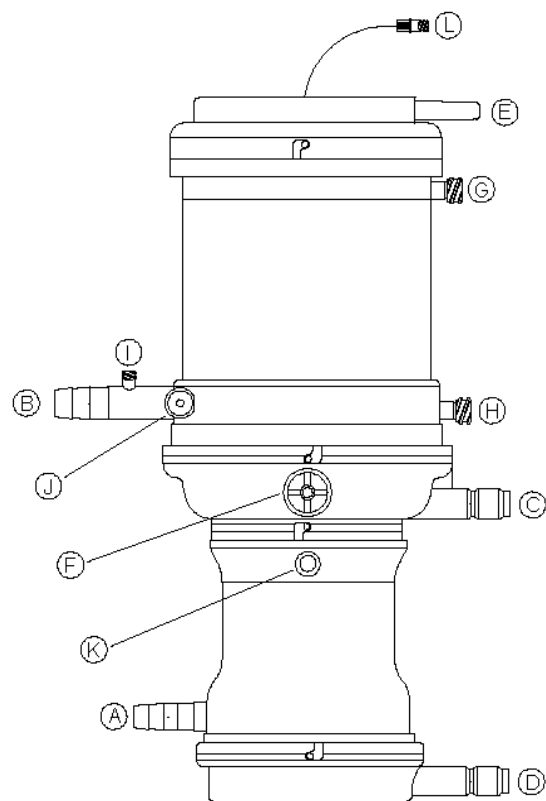
The heat exchanging component of the oxygenator is made of non-porous hollow fibre membranes. Water flows through the inner lumen of the fibres, so that blood temperature flowing outside is regulated.

Information relating to the specifications including maximum pressure and flow rate limitations for the device is to be made available at point of use.

Caution: Federal law (U.S.A) restricts this device to sale by or on the order of a physician.

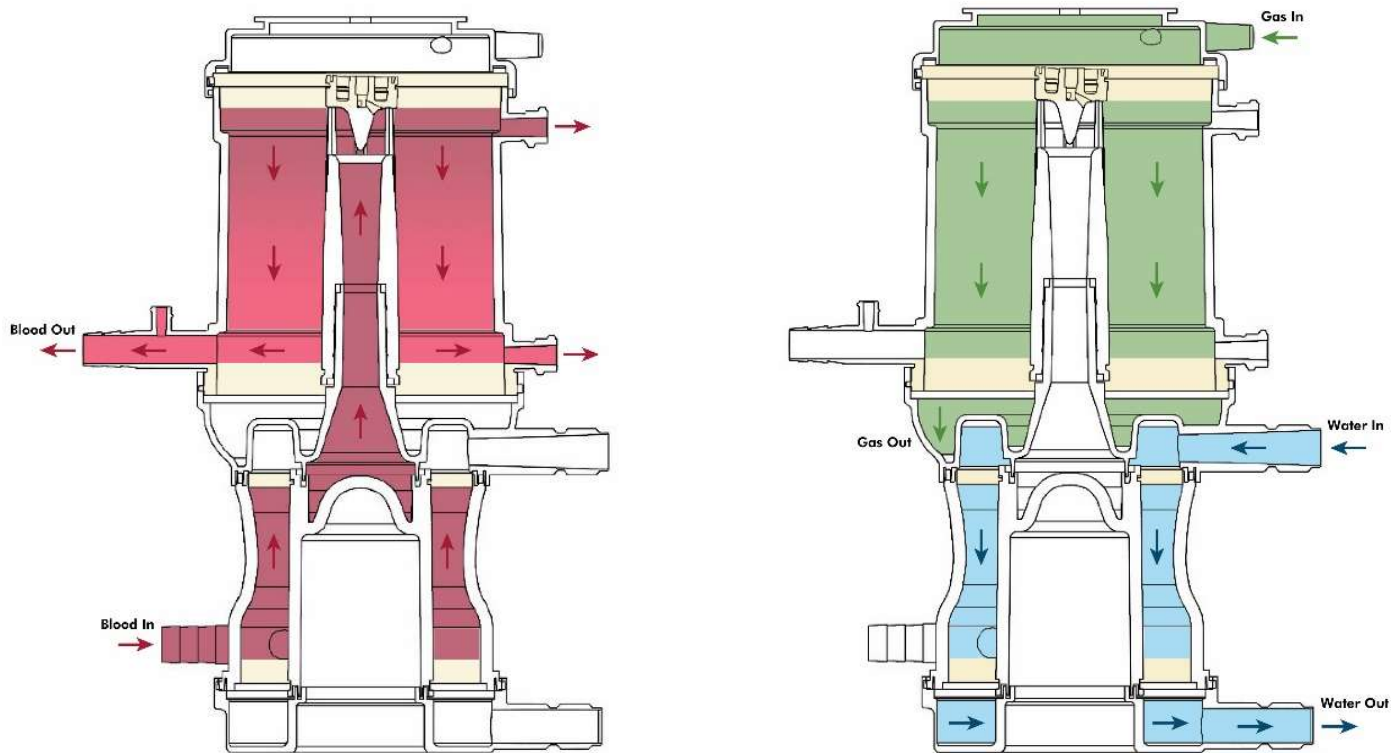
Caution: The Paragon Adult Maxi PMP oxygenator should be used in combination with a blood reservoir (not included in this product pack).

1.2. Ports & Path Flows



Item	Connector
A	Blood inlet
B	Blood outlet
C	Water inlet
D	Water outlet
E	Gas inlet
F	Gas outlet
G	Post gas exchanger vent
H	Re-circulation / cardioplegia
I	Luer lock arterial sample / post-membrane pressure
J	Temperature adaptor
K	Heat exchanger vent / pre-membrane pressure
L	Pre gas exchanger vent (PMP models only)

Blood, Gas, and Water Flow



1.3. Specification

Adult Maxi PMP Oxygenator	
Blood Flow Rate	1 – 8 L/min
Static Priming Volume	300 mL
Residual Priming Volume	195 mL
Gas Flow Rate	0.5 – 16 L/min
Gas Exchanger	
Material	Polymethylpentene
Type	Plasma-tight hollow fibres
Surface Area	2.47 m ²
Burst Pressure of Fibre	≥ 200 kPa
Heat Exchanger	
Material	Polyester
Type	Non-porous hollow fibres
Surface Area	0.38 m ²
Burst Pressure of Fibre	≥ 600 kPa
Port Configurations	
Blood Inlet / Outlet	Barbed 3/8"
Gas Inlet	Non-barbed 1/4"
Water Inlet / Outlet	3/8 Hansen Type Coupler – ISO 8637-1
Recirculation / Cardioplegia	DIN Luer Lock Female – ISO 80369-7
Blood Sample (Arterial)	Luer Lock Female – ISO 80369-7
Temperature (Arterial)	Glued
Post Gas Exchanger Vent Port	DIN Luer Lock Female – ISO 80369-7
Gas Vent / Outlet (diameter)	Non-Barbed Connection (16 mm inner, 18 mm outer)
Heat Exchanger Vent	Luer Lock Female BS EN ISO 80369-7
Pre Gas Exchanger Vent Port	Luer Lock Female BS EN ISO 80369-7

1.4. Indications

The Paragon **Maxi PMP** Oxygenator (Model: XCMOP405PMP) is a hollow fibre membrane oxygenator for application during cardiopulmonary bypass surgery where extracorporeal oxygenation and carbon dioxide elimination is required. The integrated heat exchanger makes it possible to regulate the blood temperature, so that the oxygenator can serve in both achieving hypothermia or maintaining normothermia.

1.5. Contra-indications

No contraindications have been raised to the present date with use as directed and by observing all indications and precautionary measures. Do not use protamine before or during ECLS support of patients undergoing heparin mediated anticoagulation.

1.6. Duration of Use

The Paragon **Maxi PMP** Oxygenator is intended for clinical use of up to 6 hours, provided the product is used in accordance with standard operational practices for these devices and especially with respect to maintaining adequate anticoagulation.

1.7. Clinical Benefit

The benefit of the Paragon Oxygenator is to oxygenate a patient's blood and remove carbon dioxide, thereby providing life support until the affected organ can recover, or so that cardiac surgery can be performed. The device also allows for heating, cooling, or maintenance of blood temperature through an incorporated heat exchanger.

1.8. Combination Products

Compatibility, performance, connection and requirements of devices to be used in combination with the Paragon Oxygenators is given below. All devices listed must be CE marked.

Device	Performance Requirements	Connection to the Oxygenator Requirements	Connection from the Oxygenator Requirements
Continuous Flow Blood Pumps. Centrifugal.	Blood flow range: Maxi 0 – 8 L/min Midi 0 – 7 L/min	Connection of tubing from the blood pump to the inlet of the Oxygenator must have tubing with an internal diameter of 3/8"	Connection of tubing from the outlet of the Oxygenator must have an internal diameter of 3/8"
Continuous Flow Blood Pumps. Roller.	Blood flow range: Maxi 0 – 8 L/min Midi 0 – 7 L/min	Connection of tubing from the blood pump to the inlet of the Oxygenator must have an internal diameter of 3/8" or 1/2"	Connection of tubing from the outlet of the Oxygenator must have an internal diameter of 3/8"
Air / Oxygen Blender	Gas flow range: Maxi 0 – 16 L/min Midi 0 – 14 L/min Oxygen 21% – 100% Air	Green gas tubing	N/A
Heater / Cooler	Water flow range: 1 – 15 L/min	3/8" Hansen Type Coupler	3/8" Hansen Type Coupler
PVC Tubing	Phthalate free	With internal diameter tubing of 3/8"	With internal diameter tubing of 3/8"
Silicone Tubing			
Venous & Cardiotomy Reservoir.	Blood flow range: Maxi 0 – 8 L/min Midi 0 – 7 L/min	Connection with tubing with internal diameter of 3/8"	Connection with tubing with internal diameter of 3/8"
Holder	Standalone Paragon Oxygenator compatible with CMEH047		
	Integrated Paragon Oxygenator compatible with CMEH012		

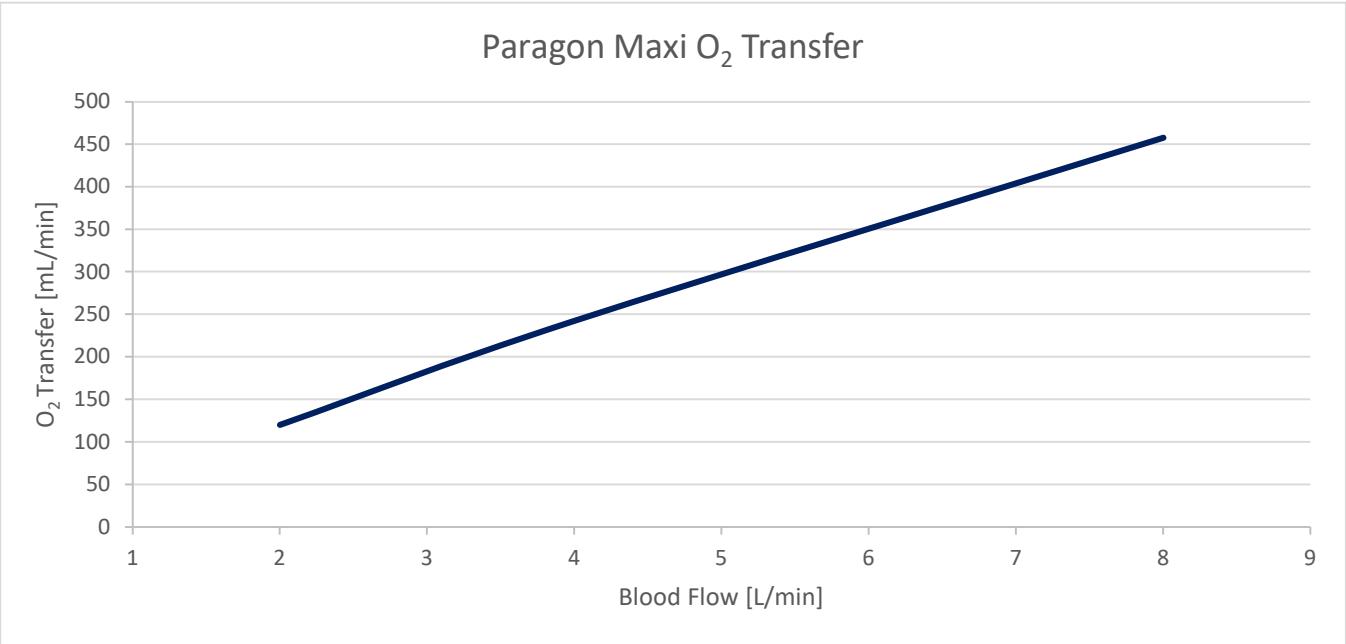
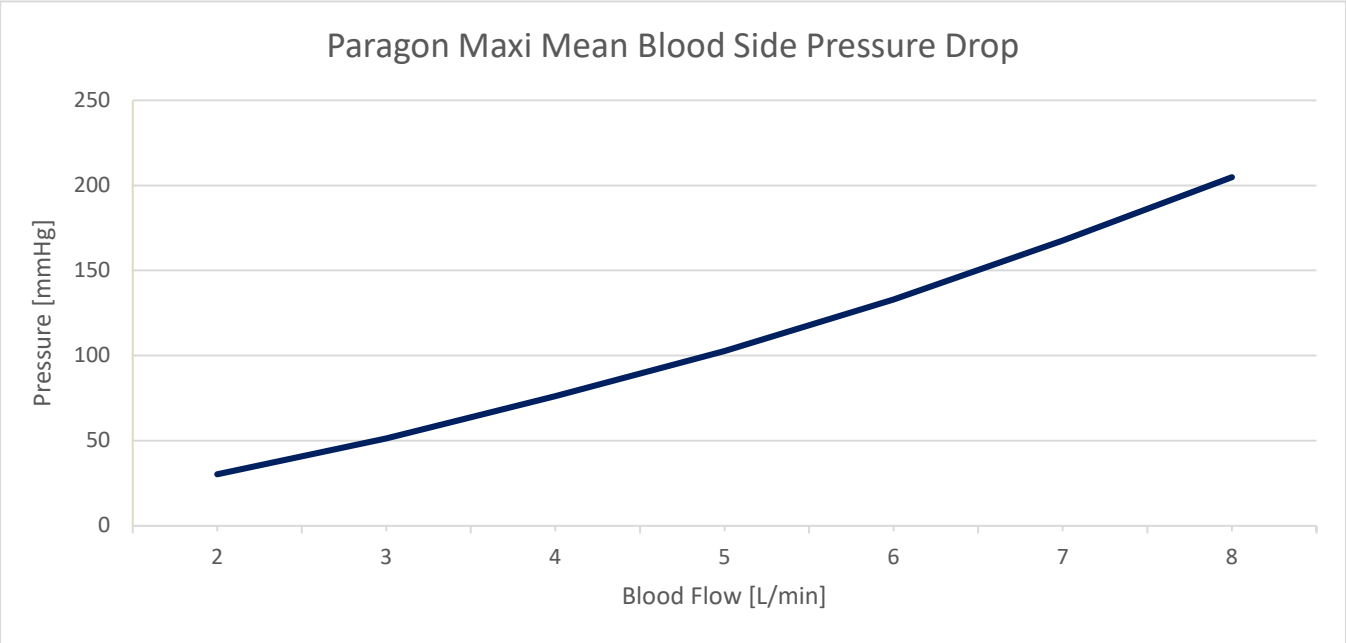
1.9. Storage

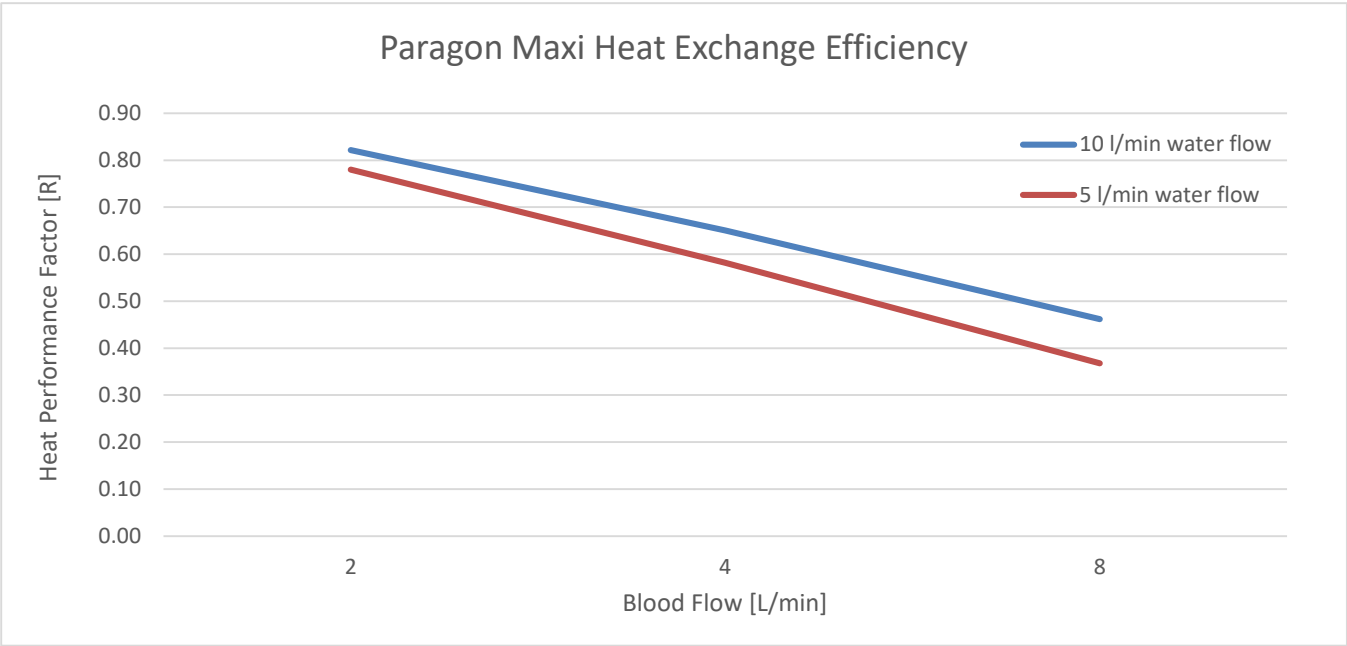
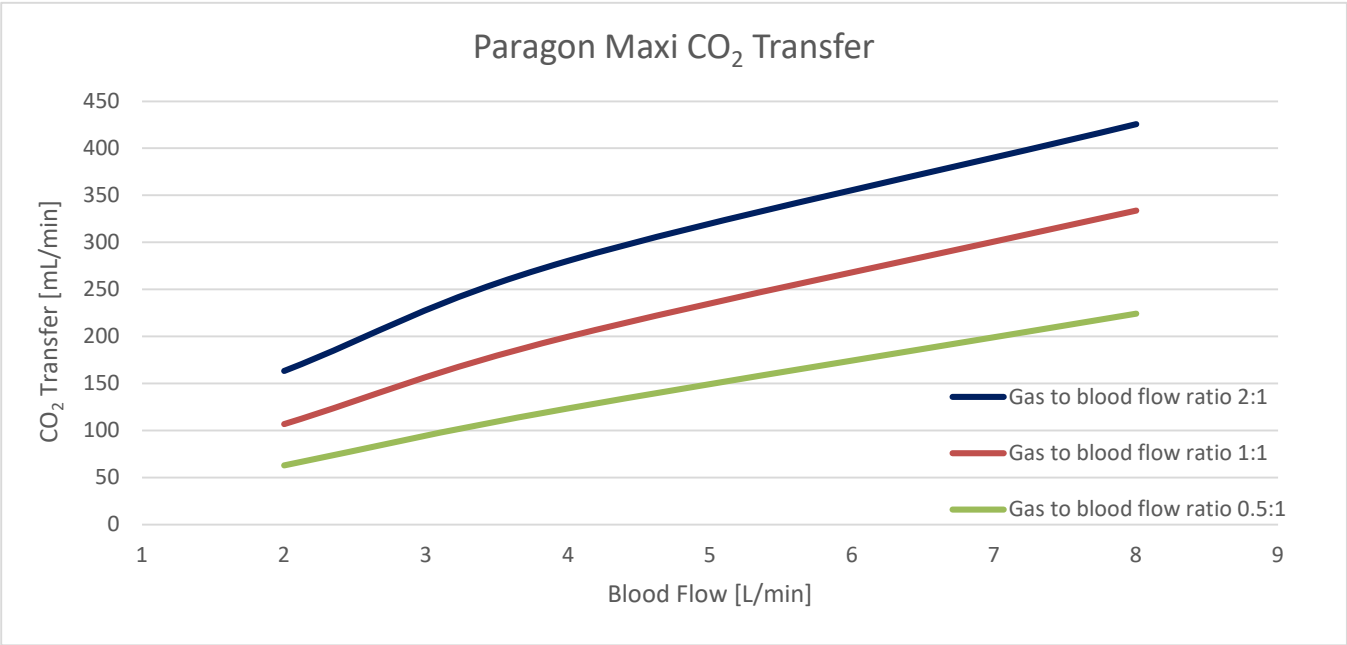
The products are single packed.

Even with correct storage the oxygenator has a limited shelf life. Please pay attention to the expiry date on the oxygenator packaging (YYYY-MM-DD). The device has to be stored in a dry, frost-free area and protected from direct solar or UV light. Storage temperatures are detailed on the product label.

1.10. Performance Data

All tests have been carried out according to the BS EN ISO 7199 standard.





2. Warnings

Read all warnings, precautions and instructions carefully prior to use.

- Protamine must not be used on patients before or during extracorporeal circulation. This also has to be observed when restarting the heart-lung machine.
- Correct heparinization and exact monitoring of the anticoagulation status before, during and after bypass has to be observed.
- Before and during extracorporeal circulation adequate anticoagulation must be maintained. The ACT (Activated Clotting Time) must be maintained above 480 seconds. The ACT must be adjusted based on factors such as circuit clotting, patient bleeding issues and other measurements of clotting such as Xa level and Thromboelastographs (TEG)¹ (References, Section 15).
- Sterility of sterile oxygenators is only guaranteed if the packaging is undamaged.
- Check the expiry date prior to use (do not use if date has expired). The data and the device unique serial number should be recorded on the perfusion pump chart.
- Products supplied sterile are sterilised with ethylene oxide.
- Do not re-sterilise the product.
- Sterile product must not be used for further production.
- Avoid any strong shocks whilst carrying or using.
- Products are for single use on one patient only (to avoid cross contamination).
- The product has to be considered a biological risk after use. Dispose of the product according to clinical and local regulations.
- It is recommended to carefully check the product before use. Function and packaging of the products could be affected during transportation. The full function of the product cannot be guaranteed when transport damage occurs. If the product has been dropped or crushed it must not be used and should be replaced with a new product.
- The product must be used directly after the protective caps have been removed.
- All products are to be used under aseptic conditions.
- It is recommended that the device is CO₂ flushed before priming on the blood side.
- Before priming the blood phase of the unit, leave the water to re-circulate inside the heat exchanger for a minimum of 5 minutes to check that the structure of the heat exchanger is leak free and that there are no leaks from the water area. This test is necessary although the oxygenator left the manufacturing facilities in a faultless state, because the manner with which the device will be handled after despatch, cannot be known. If any water leaks are noticed, the device must not be used clinically. The device must be replaced immediately. The manufacturer should be notified.
- Before clinical use, the device must be primed and de-aired in accordance with the departmental medical drug policy.
- Do not tap the oxygenator with tools during the priming procedure.
- The oxygenator and matching system have to be vented before starting extracorporeal circulation.
- This instructions for use explains how to check the parts of the oxygenator and how to use them.
- For reasons of patient safety this product has to be continuously monitored by qualified personnel during use.
- To avoid mix-ups, all connections have to be checked before using the device.
- The products must only be used by appropriately trained and qualified personnel during clinical use.
- The manufacturer holds no responsibility for damages due to lack of experience, improper use or neglect of instructions for use.
- To assure optimal function of the oxygenator, additional devices or connections are required. Carefully read the instructions for use before using the device, ensuring that all required fittings are at hand before application.
- Do not use solvents such as alcohol, ether, acetone, liquid inhalation anaesthesia (halothan, enfluran etc) as these can damage the products.
- If the narcotic gas administration of the blood is performed through the gas exchange membrane of the oxygenator, take account of all necessary safety instructions (e.g. pay careful attention to the dosage, inlet procedure only with a suitable vapour, aspirate narcotic gas at oxygenator outlet, no contact of liquid anaesthesia within the inner and outer structure of the oxygenator etc.).
- Inhalation anaesthesia permeability through the gas exchange membrane of the Paragon PMP oxygenator is strongly impeded when compared with oxygenators with microporous fibres (this indication has to be considered with narcotic procedures).
- Tubes and luer lock connections must only be fixed by hand to avoid damaging the connectors. The luer lock connectors will loosen during the sterilisation process and therefore must be tightened again by hand before application.
- To avoid product damage, do not use lubricants or disinfectants etc. for tube connection.
- Measure the pressure drop across the oxygenator during the clinical use of the oxygenator.
- **Pressure on the blood side must not be higher than 750 mmHg (10⁵ Pa).**
- **The water pressure at the inlet of the heat exchanger must not exceed 750 mmHg (10⁵ Pa).**
- **To avoid air embolism the pressure inside the blood chamber has to be kept higher than the pressure inside the gas chamber at all times.**

- The gas outlet of the oxygenator has to be fully passable, otherwise a dangerous positive pressure may be created in the gas chamber allowing air bubbles to pass from the gas phase to the blood phase.
- To assure a permanent positive pressure onto the membrane, the outlet of any reservoir used in connection with the oxygenator has to be placed higher than the oxygenator.
- The water temperature at the inlet of the heat exchanger must not exceed +42 °C.
- The maximum blood flow rate must not be exceeded.
- Once the product has been primed it should be used within hours to minimise the danger of microbiological contamination, precipitation of priming fluid etc.
- In order to avoid air bubbles entering into the blood chamber during the re-circulation process, the re-circulation line of the oxygenator must never be removed or exchanged.
- Spare products should be available at all times.
- Blood flow through the venous filter of a reservoir must not exceed the recommended product specifications. The blood flow through the cardiotomy filter of a reservoir must not exceed the recommended product specifications.
- Any reservoir filter element should be carefully monitored at high flow rates, as drug administration, high blood and air volume can lead to extensive foaming of the blood which may affect the performance of the reservoir filter.
- Initial priming of a reservoir should be performed via a filtered cardiotomy port in order to moisten the filter. The priming fluid should be re-circulated using an appropriate filter.
- The flow and defoaming of the reservoir should be observed and adjusted according to performance efficiency.
- The 1/4" vent port must not be covered with non-venting caps or tubing. An adequate connective negative pressure has to be controlled.
- When introducing additional blood products, ensure that a filtered luer port or a 1/4" or 3/8" vertical filtered port of the reservoir is used. Sufficient anticoagulation has to be assured.
- Medication should not be added through the cardiotomy part of the reservoir, these should be added to the venous section of the reservoir to ensure that they are mixed properly.
- To ensure an adequate response time in case of a venous flow obstruction, it is recommended that an adequate volume in addition to the recommended minimum level is maintained in the reservoir. The application of a level sensor is recommended.
- Sufficient venous drainage can only be achieved in an air free venous line. The user has to ensure that no air enters the venous line, otherwise the venous backflow will be stopped.
- To remove air the manifold should be purge and prefilled to avoid penetration of air.
- Negative pressure in the reservoir must not exceed -150 mmHg, this should be carefully controlled by the user.
- The reservoir must only be used with an appropriate holder.
- **The Paragon PMP Oxygenator must never be positioned higher than the patient.**

Note: Any serious incident that has occurred in relation to the device should be reported by the user to the manufacturer and the competent authority with jurisdiction in the locale in which the user is established.

3. Handling

1. Remove the products from the outer packaging and visually inspect the packaging (sterile barrier) for damage and check the expiry date. After opening, the sterility of the product is only ensured by the caps on the inlet and outlets. Carefully remove the product from the sterile packaging and check for any damages. If the packaging or product seems to be damaged, do not use. Sterile medical devices unintentionally opened before use or exposed to conditions outside of those specified should not be used.
2. Fasten the product to the appropriate holder, taking account of the following precaution:

Precaution: Only use the holders that are listed in Section 10, as the holders relate to an integral part of the system. Ensure that the device is securely fastened in the holder to assure a stable position during use. Check the holder for damages before each use.

3. Remove the caps from the water connections on the heat exchanger, and the cap of the gas inlet connector.
4. Connect the water lines with Hansen couplings to the quick locks on the oxygenator.
5. **The water must be left to re-circulate inside the heat exchanger for a minimum of 5 minutes to check that the structure of the heat exchanger is leak free and that there are no leaks from the water area. This test is necessary even though the oxygenator left the manufacturing facility in a faultless state, because the manner with which the device will be handled after despatch, cannot be known. Leaky oxygenators must not be used and should be replaced.**
6. After removing the caps, connect the venous line to the venous inlet of the venous reservoir or if using a closed system with the venous soft reservoir.
7. Connect the arterial line to the 3/8" arterial outlet of the oxygenator.
8. Connect the re-circulation port of the oxygenator with a free port on the cardiotomy reservoir (sucker port or re-circulation port).

9. Connect the cardiotomy outlet port with the inlet port of the venous soft reservoir and clamp the connection. Connect the cardiotomy suction lines to the suction ports of the reservoir.
10. Connect the tubing of the arterial pump between the outlet connector of the venous reservoir and the 3/8" inlet connector of the oxygenator.
11. Connect the gas supply line with the 1/4" gas inlet connector. Check, that the gas supply comes from a compatible air/oxygen mixer.

Warning: If zip ties are not secured correctly, a leak can occur. All zip ties must be secured tightly such that the connection does not move.

12. The gas outlet port ensures gas escape. The gas outlet port has a horizontal connector, which provides connection to a capnograph. The gas outlet must not be obstructed in any way.
13. Insert a suitable temperature probe into the temperature measuring point of the oxygenator and connect it to the monitoring system.
14. A suitable pressure monitoring system must be used during clinical use (for suitable connection points, see Section 1.2 Ports).

Warning: The use of a bubble trap or a filter as a bubble trap is recommended in the arterial line to avoid the risk of transmitting an air embolism to the patient.

4. Filling Procedure

1. The gas supply has to be switched off.
2. Clamp the re-circulation line.
3. Clamp the venous line with a throttle clamp.
4. Clamp the arterial line.
5. Clamp the outflow tubing just behind the outlet connector of the reservoir to minimise the development of air bubbles while filling with the priming solution.
6. Clamp the outlet of the venous soft reservoir.
7. **Check again the water tubing circulation and the heat exchanger for signs of any water leaks.**
8. Fill up the venous hardshell/cardiotomy reservoir with the priming solution through a filtered connection according to the individual hospital procedure. The filter material should then be moistened.

Indication: As soon as the priming procedure has been completed, the unfiltered luer lock for adding additional solutions can be used.

9. With a closed system remove the clamp from the outlet tube of the cardiotomy reservoir so that the fluid flows into the venous reservoir. Then vent the flexible venous reservoir by slowly opening the vent line.
10. Remove the pump segment from the arterial pump. Fill the pump segment by holding it at the same level as the venous reservoir and by slowly opening the clamp with which it is closed. The air inside the tube will be guided into the oxygenator by slowly bending the tube part downwards to be filled. The oxygenator will be filled by gravity.
11. Insert the pump element into the arterial pump. Remove the clamps from the arterial and venous lines, then start the arterial pump with a speed of approximately 400-800 mL/min – re-circulating via an AV loop (consisting of a pre-bypass filter or a connecting line).
12. Increase the pump flow to 4-5 L/min (please be aware of the Instructions for Use of the pre-bypass filter). Tap the complete AV system during this period to ease the removal of microbubbles. Remove air from the oxygenator by using the vent line. 3-5 minutes re-circulation at a high flow rate will remove the rest of the air.
13. Make sure the vent tubing from the Oxygenator to the reservoir is open, working and free from air.
14. Make sure the Oxygenator vent tubing is clamped off before stopping the pump.
15. Stop the arterial pump and close the venous as well as arterial line with clamps. Remove the pre-bypass filter (if used). Re-circulate the fluid through the oxygenator after filling at a flow rate of 200-500 mL/min. Once the product has been primed it should be used within hours to minimise the danger e.g. of microbiological contamination.

Warning: The machine should only be switched on/off when the pump speed is zero. For control of the pump activity, the servo speed or pressure control should be used.

5. Application of the Oxygenator System

Start of Bypass:

1. Ensure that the extracorporeal system is air-free.
2. Set FiO₂ ratio to 80-100%
3. Start bypass by removing the clamp on the arterial line and slowly open the clamp on the venous line. Set the gas-to-blood flow ratio of 1:1.
4. Open the Oxygenator Vent line to the reservoir. This should remain open during the bypass procedure in case

of air emboli into the Oxygenator.

- Carefully observe blood is returning to the venous reservoir and that the minimum operating level is maintained.

Warning: Always start the blood flow before the gas flow to the oxygenator. Never exceed a 2:1 gas flow rate: blood flow rate ratio.

Air may enter through the membrane into the blood chamber during abnormal conditions. This only happens when the gas pressure exceeds the blood pressure. The pressure on the blood side always has to be kept higher than on the gas side.

After a few minutes the blood gas control starts by online monitoring or by taking blood samples. Adjust the gas mixer on the basis of these values as follows:

- * High pO_2 —————> decrease FiO_2
- * Low pO_2 —————> increase FiO_2
- * High pCO_2 —————> increase gas flow rate
- * Low pCO_2 —————> decrease gas flow rate

During Bypass:

Should a higher venous backflow become necessary please observe the following instructions:

- Lower the level of the reservoir
- Open the throttle clamp further for venous backflow.
- Increase the backflow via an active venous drainage (AVD).

During a temporary pause in bypass, re-circulation at a minimum flow of 200 – 250 mL should take place.

With a closed system, the level in the cardiectomy reservoir must almost be the same as or higher than the venous bag level. With the open system the level in the venous reservoir has to be at least as high as in the oxygenator at all times.

Warning: If the pulsative flow is used, it is recommended to maintain a sufficient level inside the venous reservoir.

Warning: The ACT (Activated Clotting Time) has to be 480 seconds or more at all times in order to guarantee the systemic anticoagulation in the extracorporeal circuit.

Arterial Blood Probe:

The arterial blood sample is taken through the luer connection at the blood outlet port of the oxygenator.

Venous Blood Probe (Reservoir):

The venous blood sample is taken through the venous sample port or from the port on the venous line. The application of a level sensor is recommended.

6. Re-circulation at a low flow rate (hypothermia at circulatory arrest)

- Lower the gas flow rate down to an adequate level.
- Open the re-circulation line and clamp the venous line carefully.
- Decrease the arterial flow rate to an adequate level.
- Clamp the arterial line.
- During patient circulatory arrest, re-circulate at an adequate level.
- Open the arterial and venous line to re-start normal perfusion and slowly increase the blood flow.
- Close the re-circulation line.
- Re-adjust the gas flow rate.

7. Termination of Bypass

- Switch off the gas flow.
- Switch off the water circulation inside the heat exchanger.
- Slowly reduce the arterial pump flow and occlude the venous backflow.
- Clamp off the oxygenator vent line
- Clamp the arterial line.

Note: A minimum blood flow inside the oxygenator has to be maintained in order to re-start extracorporeal circulation (re: 9.6/9.7). No protamine must be administered.

- Open the re-circulation line.
- Increase the blood flow rate up to 400—800 mL/min.

Warning: During re-circulation the blood flow rate must never exceed 800 mL/min.

8. Air Removal from the Oxygenator

To remove air in the oxygenator, please perform the following:

1. Switch off the gas flow.
2. Switch off the arterial pump.
3. Clamp the arterial line.
4. Clamp the venous line.
5. Vent the oxygenator into a sufficiently filled reservoir via the re-circulation line for one minute at approximately 800 mL/min.
6. Remove air from the oxygenator by opening the vent port.
7. All air has to be removed through the vent line.
8. Remove the clamps at the arterial and venous line and re-start bypass, close the re-circulation and venous vent line of the oxygenator.

9. Replacement of an Oxygenator

Procedure:

1. Stop the water supply to the old oxygenator and remove the water lines.
2. Disconnect any connections to the old oxygenator that are no longer necessary.
3. Remove the old oxygenator from the holder and replace with a new oxygenator.
4. Stop the blood pump.
5. Clamp the venous line at the venous reservoir.
6. Clamp the venous and arterial lines at the oxygenator.
7. Fill up the cardiectomy reservoir with sufficient fluid to be able to fill the second oxygenator.
8. If using a soft reservoir, ventilate the same.
9. Disconnect the gas and monitoring lines.
10. Connect the water lines to the new oxygenator and open the water supply. Check the oxygenator for any leaks.
11. Aseptically disconnect the blood inlet, outlet and re-circulation lines on the old oxygenator.
12. Connect all lines on the new oxygenator aseptically ensuring it is free from bubbles, fix all the connections.
13. Open the re-circulation and venous oxygenator inlet line. The venous back flow and arterial line have to remain clamped.
14. Switch on the blood pump and slowly fill up the oxygenator.
15. Re-circulate the blood through the re-circulation line.
16. As soon as the complete system is air-free and no leaks have been highlighted, open the venous and arterial lines. Bypass can now be re-started.
17. Close the re-circulation line.

10. Fittings

These can be ordered from the manufacturer.

Product

Holder for Integrated Paragon Adult Oxy with 4000 mL Reservoir
Holder for Standalone Paragon Adult, Paediatric & Infant Oxy
Straight Hansen Connectors
90° Hansen Connectors

Order Code

CMEH012
CMEH047
U-CME90058
U-CME90059

11. Explanation of Symbols

Do Not Re-Use		Use By Date: YYYY-MM-DD	
Date of Manufacture		Fragile handle with care	
Manufacturer		Consult Instructions for Use	
Do Not Re-Sterilise		Addition of number to determine how many products are in the packaging.	
Do No Use if Packaging is Damaged		Keep away from sunlight	
Temperature limitation		Non-Pyrogenic: Indicates a medical device which is non-pyrogenic.	
Keep dry		EC Authorised Representative	EC REP
Sterilised Using Ethylene Oxide		CE Mark	CE
Language Symbol – assigned as required		Importer	
Single Sterile Barrier System with Protective Packaging Outside		Medical Device	MD
Single Sterile Barrier System		Catalogue Number	REF
Single sterile barrier system with protective packaging inside		Serial Number	SN
Lot Number/ Batch Code	LOT	Federal Law restricts this device to sale by or on the order of a licensed health care practitioner	Rx Only

12. Information available upon request

The following information can be supplied upon request:

- List of materials of the blood pathway.
- Data related to blood cell damage.
- Data on particle release from the oxygenator according to the manufacturer's quality control management system.
- Relevant tolerances for data presented.

13. Warranty and Liability Statement

The manufacturer guarantees that the products have been manufactured, sterilised, and packaged according to Article 21 of the Code of Federal Regulations.

The manufacturer's obligation is to replace any products, which it determines were defective at the time of shipment. Faulty products must be returned for investigation. Because of factors that are out of the manufacturers control i.e. shipping, storage and handling by the user, the manufacturer cannot guarantee that a product is without faults. The

manufacturer can therefore not be made liable for damages, resulting from use or misuse of the product other than as intended. The manufacturer is not liable for any damages caused by re-sterilisation or re-use of the product.

14. Further Information

All serious incidents relating to this product should be reported to Chalice Medical Ltd or Sales Representative and the Competent Authority of the Member State in which the User and/or patient is established. The report can be made by email to quality@chalicemedical.com.

A product associated with an incident must not be disposed immediately after use. If the product is to be returned for any reason, please seek prior approval from Chalice Medical Ltd. If the product is contaminated, it is the responsibility of the User to adequately prepare and label the product for return shipment. The shipping address for returns is the Manufacturer's address.

It is encouraged to electronically record the Unique Device Identifier (UDI) of products that are supplied.

The following information is available upon request: the sterilisation method, the list of the materials of the blood pathway, data on plasma leakage across any semi-permeable membrane, and gas pathway pressure drop at maximum blood and gas flow rates for intended use.

Along with a physical copy of the IFU a QR code is provided on the product packaging to allow users to obtain a PDF version of the IFU.

For further information or additional copies of the IFU, they can be obtained from enquiries@chalicemedical.com.

15. References

1. Extracorporeal Life Support: The ELSO Red Book. 5th Edition pub. 2017. Editors T.V. Brogan, L. Lequier, R. Lorusso, G. MacLaren, G. Peek.

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CD0060E USA – Adult Oxy
(Rev: 4 – 2025/05)