
# Paragon® Oxygenator

chalice
operate your way

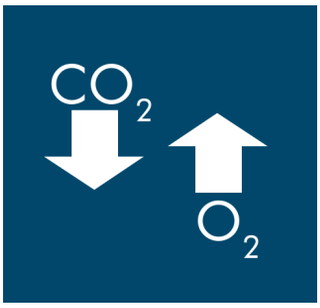

All Paragon Oxygenators must pass 25 separate checks in production before it is made available for clinical use.

The Paragon employs double safety seals of silicone O rings and UV adhesive to create a safe and secure closure.

A Batch Lot number and unique Serial number is given to each device to ensure complete traceability.

Heat exchanger bundle is made from robust Polyester fibres - highly resistant to Hydrogen Peroxide cleaning agent.

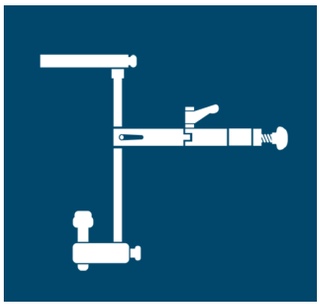
## Paragon® is the only Extracorporeal Membrane Oxygenator to be manufactured in the UK


Each unit offers an optimised balance of low priming volume, high $O_2$ transfer and $CO_2$ removal capabilities.

Paragon Oxygenators are available as separate units or in a fully Pre-connected tubing pack.

Increased Visibility during setup and use is achieved through separate heat exchanger and gas exchanger bundles.



Holders are available to securely hold each device during set up and throughout use.

## The Paragon® Oxygenators are available in three different models:

The **standard Paragon** oxygenator has a Polypropylene Micro Porous Fibre Gas Exchanger and is available either as a separate stand-alone product, or as an integrated unit when used in conjunction with the Paragon Venous & Cardiotomy reservoir - making a complete and dependable system.

The **Paragon MicroNet** is identical to the standard Paragon with the exception of a highly efficient filter membrane incorporated into the Polypropylene gas exchanger. The MicroNet filter has a composition allowing a 40% open area, helping to maintain low blood side pressures as it filters out micro aggregate down to 40$\mu$.
This popular model can contribute to reduced circuit priming volumes and costs as some end users choose to remove their traditional arterial filter and rely on the highly efficient internal filter of the oxygenator.

The **Paragon PMP** is a stand-alone unit that is specifically designed for long-term applications such as ECMO/ECLS. Possessing all the benefits and features as the standard Paragon, but with the exception of a Polymethlypentene Plasma Tight Fibre Gas Exchanger, an essential requirement to allow extended use.

### Coated as standard.

Every Unit is coated as standard with our proprietary surface coating

15 Day Approval
(PMP model)


## Paragon Adult Maxi

| | PMP | PP | MN |
|---|---|---|---|
| Intended use time (up to): | 15 Days | 6 Hours | 6 Hours |
| Blood Flow Rate: | 1 - 8 lpm | 1 - 8 lpm | 1 - 8 lpm |
| Static Priming Volume: | 300 ml | 300 ml | 300 ml |
| Heat Exchanger Surface Area: | 0.38 $m^2$ | 0.38 $m^2$ | 0.38 $m^2$ |
| Gas Exchanger Surface Area: | 2.47 $m^2$ | 2.07 $m^2$ | 2.07 $m^2$ |
| 40$\mu$ Integrated filter Surface Area: | N/A | N/A | 210 $cm^2$ |
| Blood Inlet/outlet: | 3/8" Barbed | | |
| Gas Inlet : | 1/4" | | |
| Water Inlet/Outlet: | 3/8" Hansen | | |

| Product Code: | Stand Alone | Integrated |
|---|---|---|
| | XCMOP305PMP | - |
| | XCMOP300MN | XCMOPI300MN |
| | XCMOP300PP | XCMOPI300PP |


## Paragon Adult Midi

| | PMP | PP | MN |
|---|---|---|---|
| Intended Use time (up to): | 24 hours | 6 hours | 6 hours |
| Blood Flow Range: | 1 - 7 lpm | 1 - 7 lpm | 1 - 7 lpm |
| Static Priming Volume: | 260 ml | 260 ml | 260 ml |
| Heat Exchanger Surface Area: | 0.38 $m^2$ | 0.38 $m^2$ | 0.38 $m^2$ |
| Gas Exchanger Surface Area: | 1.89 $m^2$ | 1.54 $m^2$ | 1.54 $m^2$ |
| 40$\mu$ Integrated filter Surface Area: | N/A | N/A | 210 $cm^2$ |
| Blood Inlet/outlet: | 3/8" Barbed | | |
| Gas Inlet : | 1/4" | | |
| Water Inlet/Outlet: | 3/8" Hansen | | |

| Product Code: | Stand Alone | Integrated |
|---|---|---|
| | XCMOP265PMP | - |
| | XCMOP260MN | XCMOPI260MN |
| | XCMOP260PP | XCMOPI260PP |


## Paragon Paediatric

| | PMP | PP | MN |
|---|---|---|---|
| Intended Use time (up to): | 24 hours | 6 hours | 6 hours |
| Blood Flow Range: | 0.5 - 4 lpm | 0.5 - 4 lpm | 0.5 - 4 lpm |
| Static Priming Volume: | 175 ml | 175 ml | 175 ml |
| Heat Exchanger Surface Area: | 0.22 $m^2$ | 0.22 $m^2$ | 0.22 $m^2$ |
| Gas Exchanger Surface Area: | 1.24 $m^2$ | 1.06 $m^2$ | 1.06 $m^2$ |
| 40$\mu$ Integrated filter Surface Area: | N/A | N/A | 190 $cm^2$ |
| Blood Inlet/outlet: | 3/8" Barbed | | |
| Gas Inlet : | 1/4" | | |
| Water Inlet/Outlet: | 3/8" Hansen | | |

| Product Code: | Stand Alone | Integrated |
|---|---|---|
| | XCMOP165PMP | - |
| | XCMOP160MN | XCMOPI160MN |
| | XCMOP160PP | XCMOPI160PP |


## Paragon Infant

| | PMP | PP | MN |
|---|---|---|---|
| Intended use time (up to) | 24 Hours | 6 Hours | 6 Hours |
| Blood Flow Rate: | 0.5 - 3 lpm | 0.5 - 3 lpm | 0.5 - 3 lpm |
| Static Priming Volume: | 150 ml | 150 ml | 150 ml |
| Heat Exchanger Surface Area: | 0.20 $m^2$ | 0.20 $m^2$ | 0.20 $m^2$ |
| Gas Exchanger Surface Area: | 0.86 $m^2$ | 0.66 $m^2$ | 0.66 $m^2$ |
| 40$\mu$ Integrated filter Surface Area: | N/A | N/A | 162 $cm^2$ |
| Blood Inlet/outlet: | 1/4" Barbed | | |
| Gas Inlet : | 1/4" | | |
| Water Inlet/Outlet: | 3/8" Hansen | | |

| Product Code: | Stand Alone | Integrated |
|---|---|---|
| | XCMOP145PMP | - |
| | XCMOP140MN | XCMOPI140MN |
| | XCMOP140PP | XCMOPI140PP |


## Paragon Neonatal

| | PMP |
|---|---|
| Intended use time (up to) | 24 Hours |
| Blood Flow Rate: | 0.1 - 1.4 lpm |
| Static Priming Volume: | 65 ml |
| Heat Exchanger Surface Area: | 0.13 $m^2$ |
| Gas Exchanger Surface Area: | 0.46 $m^2$ |
| Blood Inlet/outlet: | 3/16" Barbed |
| Gas Inlet : | 1/4" |
| Water Inlet/Outlet: | 3/8" Hansen |

| Product Code: | Stand Alone |
|---|---|
| | XCMOP43PMP |

## Holders

### Stand Alone

Holder shown in image is CMH047

**Product Code**

CMH047 - Adult Maxi - Infant

CMH049 - Neonatal

### Integrated

Holder shown in image is CMH012

**Product Code**

CMH012 - Maxi/Midi Integrated

CMH025 - Paediatric Intergrated

CMH042 - Infant Integrated

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## The Paragon Venous & Cardiotomy Reservoirs are a perfect partner to the standard and MircoNet Paragon Oxygenators.

**4000ML**

CMRVC4000

**2500ML**

CMRVC2500

**1800ML**

CMRVC1800

## Features and Benefits

- Organised and uncluttered port access
- 360° rotatable venous inlet
- +/- dual purpose pressure relief valve
- removable sample manifold
- highly visible and clear level indicators
- integrated defoamer and 38$\mu$ filter.

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NOTE: These products are not available in the USA

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