

QUICK REFERENCE GUIDE

AMG PMP Oxygenator



TECHNICAL SPECIFICATION	AMG PMP ADULT OXYGENATOR	AMG PMP PEDIATRIC OXYGENATOR	AMG PMP INFANT OXYGENATOR
Minimum Blood Flow Rate	1 L/min	0.5 L/min	0.2 L/min
Maximum Blood Flow Rate	7 L/min	4 L/min	1.5 L/min
Priming Volume	220 mL	190 mL	90 mL
Membrane Surface Area	1.81 m ²	1.35 m ²	0.69 m ²
Gas Flow to Blood Flow Ratio	Min 0.5:1, Max 2:1	Min 0.5:1, Max 2:1	Min 0.5:1, Max 2:1
Expected Pressure Drop	100 mmHg at 3.5 L/min	40 mmHg at 2 L/min	35 mmHg at 0.75 L/min
Venous Inlet and Arterial Outlet	3/8" barbed connectors	3/8" barbed connectors	1/4" barbed connectors
Membrane Material	PMP w/ PC Coating	PMP w/ PC Coating	PMP w/ PC Coating
Heat Exchanger Type	Stainless Steel	Stainless Steel	Stainless Steel
Maximum Blood Pressure	14.5 PSI (750 mmHg)	14.5 PSI (750 mmHg)	14.5 PSI (750 mmHg)
Water Inlet and Outlet	1/2" Hansen+ Quick Couplings	1/2" Hansen Quick Couplings	1/2" Hansen Quick Couplings

OXYGENATOR TROUBLESHOOTING

PROBLEM	CLINICAL MANIFESTATIONS	POSSIBLE CAUSES	ACTIONS TO BE TAKEN
Poor Gas Exchange	<ul style="list-style-type: none"> Increased PCO₂ on oxygenator post-membrane blood sample Decreased PO₂ on oxygenator post-membrane blood sample No color difference between drainage and return lines 	<ul style="list-style-type: none"> Oxygen source depleted, disconnected, or off Profound decreased VO₂ saturation Increased rate of blood flow through the oxygenator limiting dwell time Decreased gas exchange surface due to blood clotting in the oxygenator Patient metabolic issues 	<ul style="list-style-type: none"> Confirm oxygen source and line connections Consider increasing sweep gas and/or FIO₂ Assess flow setting and patient requirements Assess patient's VO₂ content and metabolic state Visually inspect the oxygenator for clot formation Consider oxygenator change out
High Delta P or Increasing Pressure Drop	<ul style="list-style-type: none"> Pre-membrane pressure > Post-membrane pressure (check expected values for AMG PMP Oxygenator in IFU) Progressively worsens Increasing pump speed (rpms) does not result in increased blood flow Clinical signs of hemolysis 	<ul style="list-style-type: none"> Oxygenator thrombus Kink in tubing 	<ul style="list-style-type: none"> Visually inspect oxygenator for clot formation Check anticoagulation is therapeutic – adjust as indicated Check labs for hemolysis Consider changing out the oxygenator Check tubing for kinks

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PROBLEM	CLINICAL MANIFESTATIONS	POSSIBLE CAUSES	ACTIONS TO BE TAKEN
Air bubbles in oxygenator	<ul style="list-style-type: none"> Air bubbles in oxygenator 	<ul style="list-style-type: none"> Patient central line luer port open Venous line air Excessive negative inlet pressure Cavitation of air out of solution 	<ul style="list-style-type: none"> Protect the patient from air embolization by stopping support Identify source of air and treat the cause



Scan here for more information on AMG PMP Oxygenators



Setting up the AMG PMP Oxygenator



Priming the AMG PMP Oxygenator

AMG PMP Adult, Pediatric, Infant Oxygenators and Oxygenator Holder are manufactured by Eurosets s.r.l. and distributed by Abbott.

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Rx Only

Brief Summary: Prior to using these devices, please review the Instructions for Use for a complete listing of indications, contraindications, warnings, precautions, potential adverse events and directions for use.

AMG PMP Adult Oxygenator Indications [510(k) Clearance; 6-hour use]: The AMG MODULE PMP NO T.P. STERILE is intended for use in adult surgical procedures requiring extracorporeal gas exchange support and blood temperature control for periods of up to 6 hours. The AMG MODULE PMP NO T.P. STERILE is intended to be used in an extracorporeal perfusion circuit to oxygenate and remove carbon dioxide from

the blood and to cool or warm the blood during routine cardiopulmonary bypass procedures up to 6 hours in duration. Contact with blood for a longer period of time is inadvisable. AMG MODULE PMP NO T.P. STERILE is an adult oxygenator. The AMG MODULE PMP NO T.P. STERILE should be used in combination with medical devices listed in section “Medical devices for use with the AMG MODULE PMP NO T.P. STERILE.”

AMG PMP Adult Oxygenator Contraindications

[510(k) Clearance; 6-hour use]: This device used for any other purposes than for the indicated intended use is the responsibility of the user. See Instructions for Use.

AMG PMP Pediatric Oxygenator Indications [510(k) Clearance; 6-hour use]:

The device is indicated for patients who undergo cardiopulmonary bypass surgery requiring extracorporeal circulation for 6 hours or less with a maximum blood flow rate of 4 liters/minute.

AMG PMP Pediatric Oxygenator Contraindications

[510(k) Clearance; 6-hour use]: No contraindications are known if the device is used for the purpose described and

in accordance with the stated operating conditions. Do not use the device for any purpose other than indicated.

AMG PMP Infant Oxygenator Indications [510(k) Clearance; 6-hour use]:

The device is indicated for patients who undergo cardiopulmonary bypass surgery requiring extracorporeal circulation for 6 hours or less with a maximum blood flow rate of 1.5 liters/minute.

AMG PMP Infant Oxygenator Contraindications

[510(k) Clearance; 6-hour use]: No contraindications are known if the device is used for the purpose described and in accordance with the stated operating conditions. Do not use the device for any purpose other than indicated.

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