

CARDIOPULMONARY



THE SOLUTION FOR GREAT PERFUSIONS
IN ADULT PATIENTS



EUROSETS
EVERY LIFE MATTERS



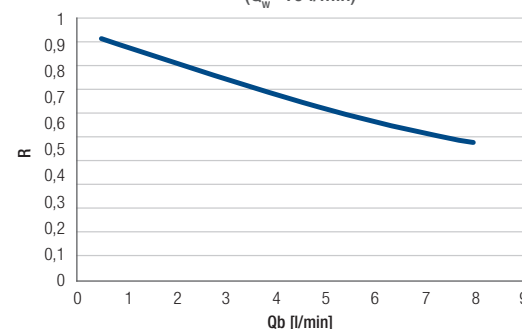
TECHNICAL FEATURES

- Blood flow rate: 0.5 - 8 l/min
- Priming volume: 268 ml
- Contact surface area: 1.98 m²
- Membrane type: Microporous polypropylene (PP)
- Heat exchanger surface area: 0.1 m²
- Heat exchanger material: Stainless steel
- Coating: Phosphorylcholine (PC)

PERFORMANCES

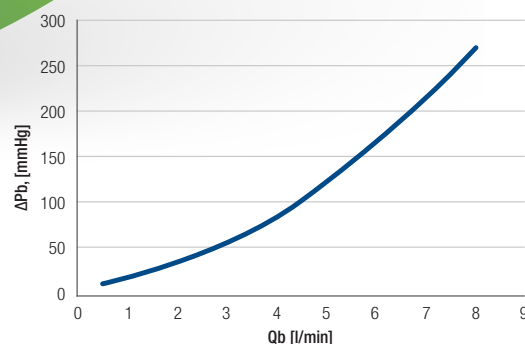
HEAT EXCHANGER PERFORMANCE FACTOR R*

Heat Exchanger Performance Factor R*
(Q_w=10 l/min)



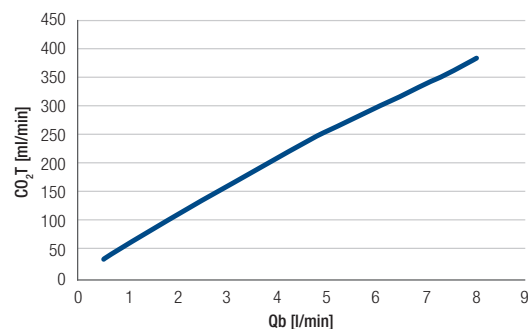
BLOOD SIDE PRESSURE DROP*

Blood side pressure drop



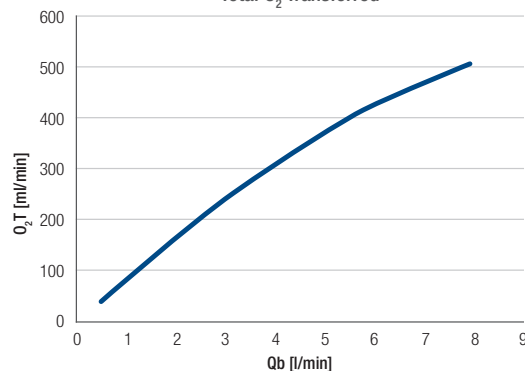
CARBON DIOXIDE TRANSFER RATE*

Total CO₂ Transferred



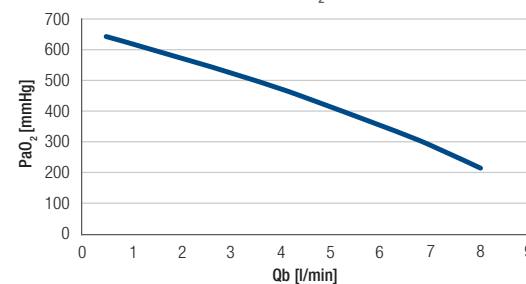
OXYGEN TRANSFER RATE*

Total O₂ Transferred



PARTIAL PRESSURE OF OXYGEN*

PaO₂



* ISO 7199 conditions

Bovine blood

Hb = 12 ± 1 g/dL

SV02 = 65 ± 5%

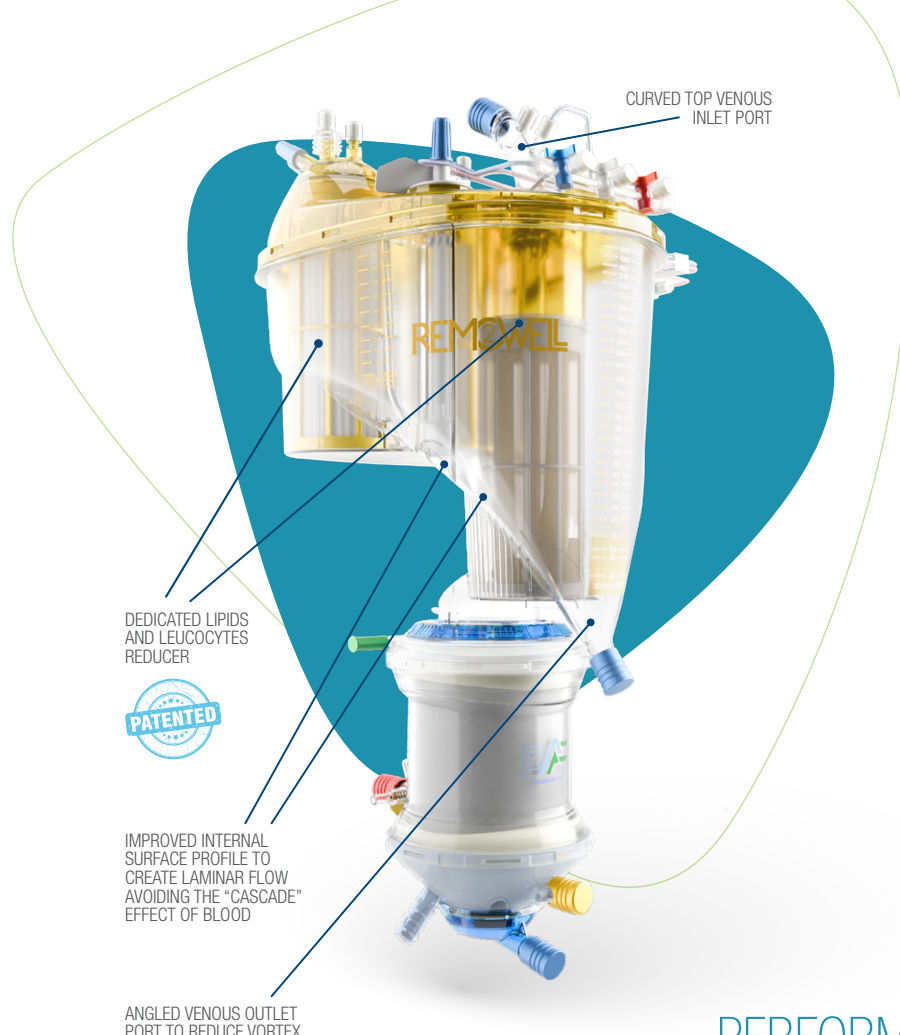
PVCO2 = 45 ± 5 mmHg

B.E. = 0 ± 5 mEq/L

Temp. = 37 ± 1°C

Q_b/Q_g = 1

FI02 = 100%



REMOWELL2 8AF

REDUCES INTENSITY AND DURATION OF POST-OPERATIVE SEVERE DELIRIUM

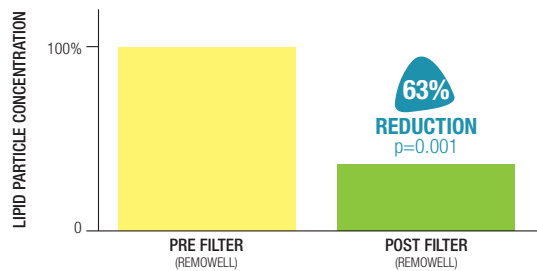
TECHNICAL FEATURES

- 4500 ml total reservoir capacity
- 800 ml cardiectomy capacity
- 3 different filtration systems:
 - Venous inlet (80µm)
 - Intracavitary inlet (40µm)
 - Extracavitary inlet
- Two step lipid-leukocyte depletion:
 - Multilayer cascade filtration (for lipids and leukocytes)
 - Supernatant separator (lipids only)
- Fully PC coated
- Suitable for VAVD

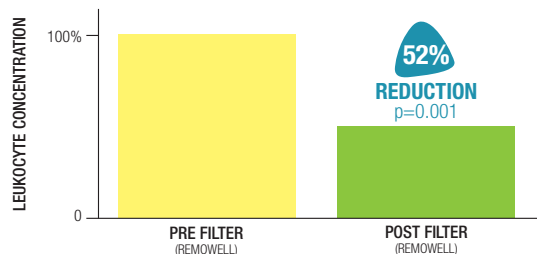
PERFORMANCES

DEVICE PERFORMANCE

Lipid Reduction¹

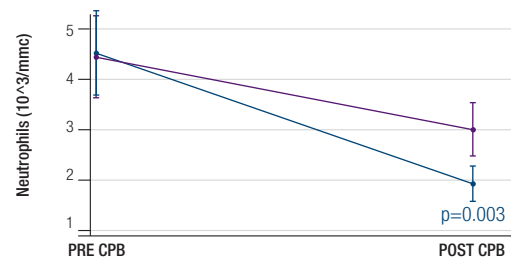


Leukocyte Reduction¹

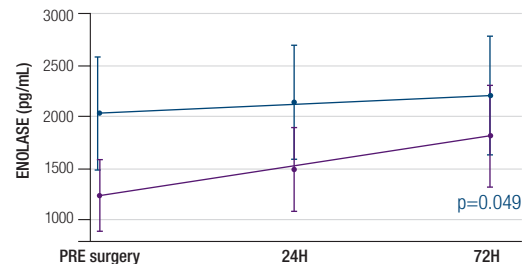


DEVICE CLINICAL PERFORMANCE

Levels of Blood Leukocytes in Patients²

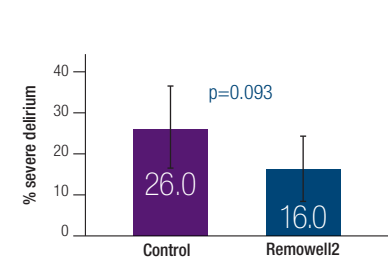


Levels of Enolase²



DEVICE CLINICAL BENEFIT²

Severe Delirium*



*Severe delirium:

- ≥ 4 positive CAM (> 24h)
- Delirium therapy in hospital
- Delirium therapy at discharge

● Control ● Remowell2

HORIZON 8AF

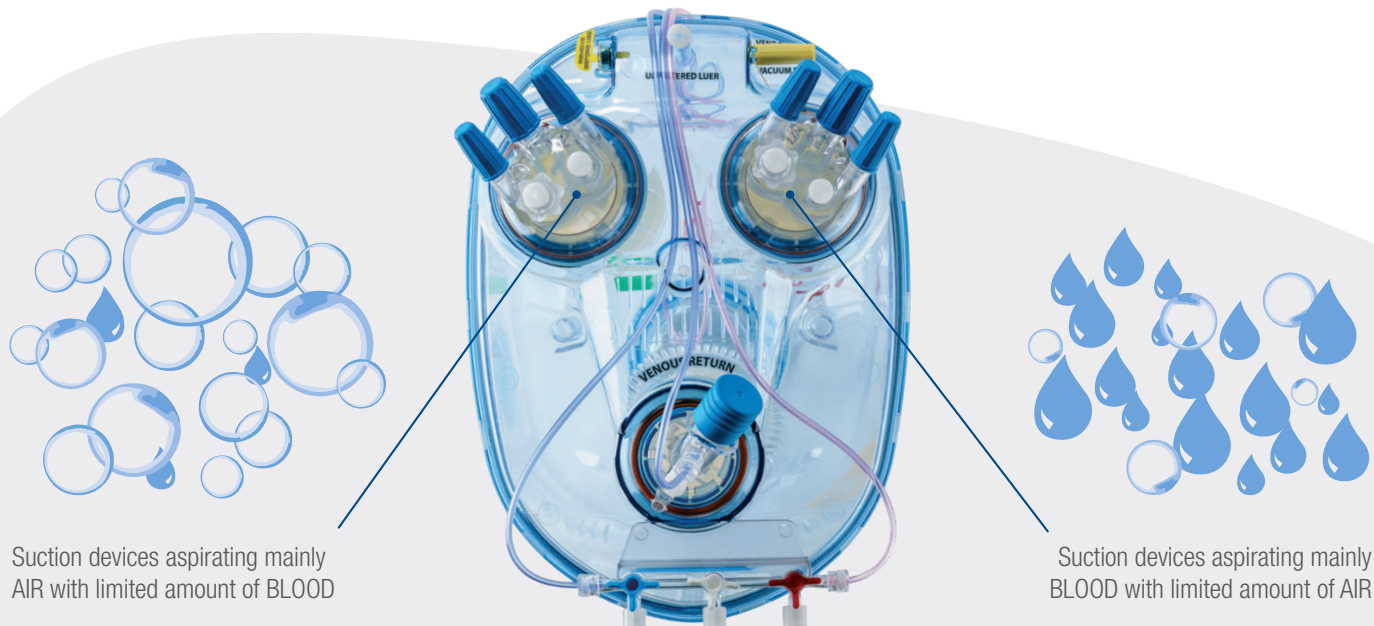
THE SOLUTION TO REDUCE GME
(GASEOUS MICROEMBOLI)

TECHNICAL FEATURES

- 4500 ml total reservoir capacity
- 3 different filtration systems:
 - Venous inlet (80µm)
 - BLOOD/air inlet (40µm)
 - AIR/blood inlet (40µm)
- Fully PC coated
- Suitable for VAVD



A UNIQUE FILTRATION TECHNOLOGY DESIGNED
TO SEPARATELY COLLECT BLOOD COMING FROM
INTRACAVITARY AND EXTRACAVITARY SUCTION DEVICES





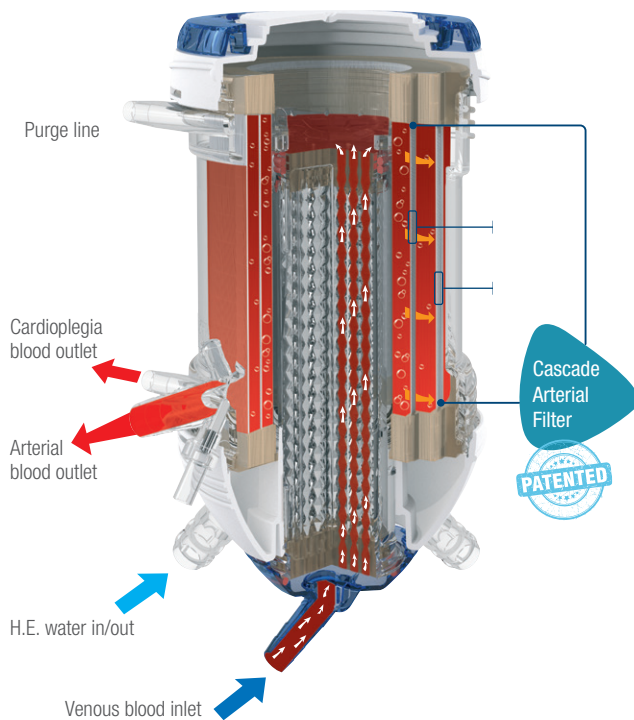
THE SOLUTION FOR GREAT PERFUSIONS IN ADULT PATIENTS

THE SOLUTION FOR CLINICIANS DESIGNED TO COVER ALL PATIENT PROFILES

Meeting the needs of adult patients and ensuring adequate performance, from 0.5 L/min to 8 L/min, thanks to the new 8AF oxygenator module with integrated arterial filter.

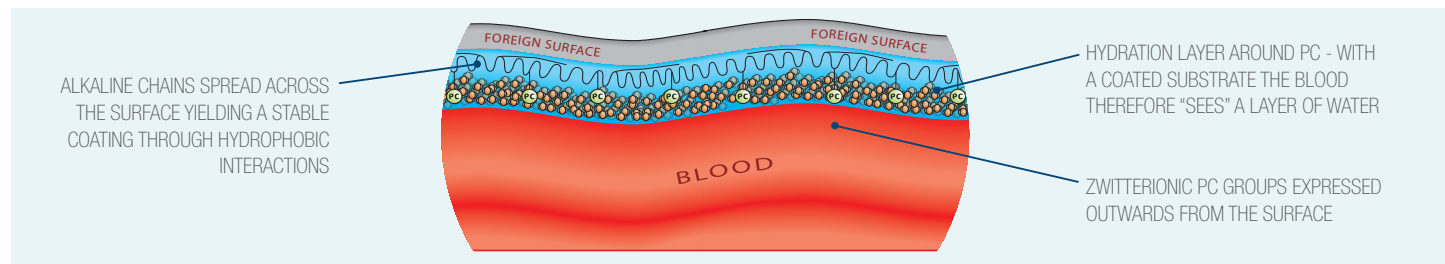
OXYGENATOR MODULE WITH PATENTED CASCADE ARTERIAL FILTER

The patented cascade arterial filter, composed of 2 filtering layers $80\mu\text{m} + 38\mu\text{m}$, is specifically designed to optimally combine gas transfer performance with a low priming volume and a low pressure drop.



PHOSPHORYLCHOLINE COATING

Phosphorylcholine or PC is the predominant lipid headgroup found within the outer layer of cell membranes. PC has a natural affinity for water and binds water tightly around itself. As a result, the outer layer of the cell membrane does not promote clot formation (thrombosis).



ORDERING GUIDE

	 CVR HORIZON ref. AG5073	 CVR REMOWELL2 ref. AG5074
8AF (1.98 m²) ref. AG5097	HORIZON 8AF (1.98 m²) ref. AG5305 en - INTEGRATED 8AF MODULE and HORIZON CVR	REMOWELL2 8AF (1.98 m²) ref. AG5306 en - INTEGRATED 8AF MODULE and REMOWELL2 CVR

CODE	DESCRIPTION	NO./PACK
EU2489	Holder for Oxygenator adult light	1
EU2490	Adjustable holder for adult Oxygenator	1
EU2147/P	HORIZON/REMOWELL2 CVR Holder	1
EU2498	Holder for 8AF Oxygenator	1

REFERENCES

1. A.dell'Amore et al. **Efficacy of a New Oxygenator-Integrated Fat and Leukocyte Removal Device.** Asian Cardiovasc Thorac Ann 2010;0:1–5
2. Mantovani et al. **Post-operative delirium and cognitive dysfunction in aged patients undergoing cardiac surgery: a randomized comparison between two blood oxygenators.** Bioengineering 2023,10,1429

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