

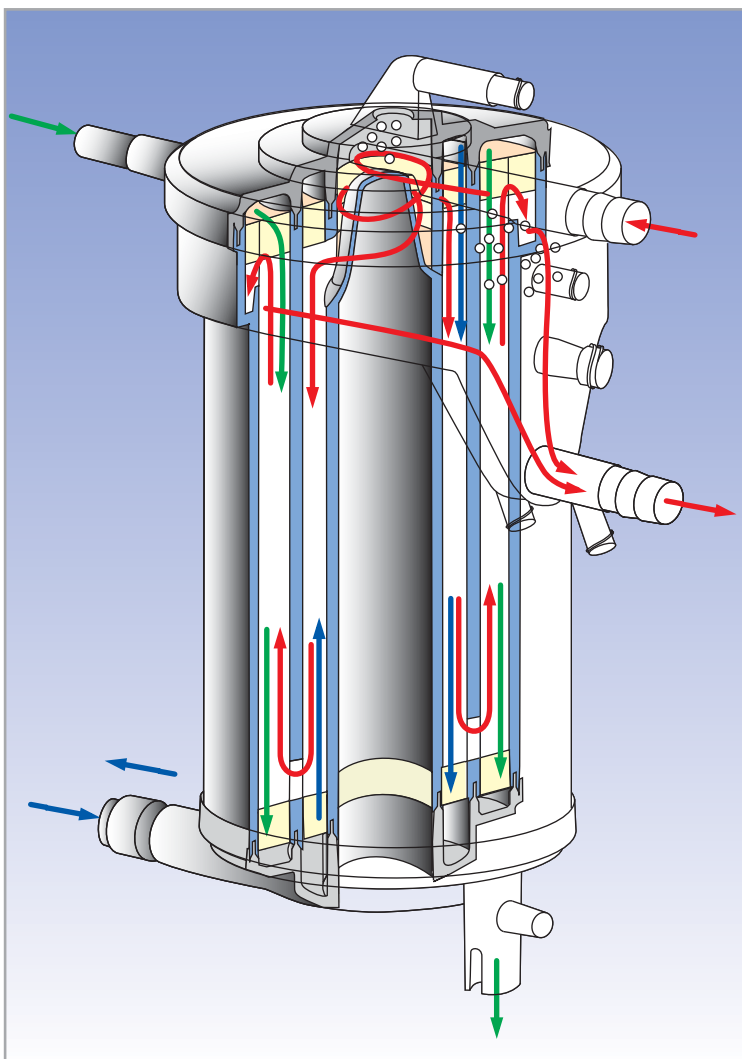
MEDOS HILITE®

*Oxygenation Systems
for Adults, Paediatrics and Infants*



MEDOS HILITE® 7000

Oxygenation Systems for Adults



■ Blood ■ Water ■ Gas

The HILITE® 7000 Hollow Fibre Oxygenator is a high performance device, designed for a safe and reliable gas transfer with high heat exchange performance for a flow range up to 7 l/min. High margin of transfer performance, consistent transfer rates as well as maximum safety were central to the design and production related development process.

The high functional safety of the HILITE® 7000 Hollow Fibre Oxygenator is achieved by the vertical blood, water and gas flow directions. Due to this configuration and the transparency of the housing, the observation of air and the deairing-procedure are extremely simple and safe.

Other properties of the HILITE® 7000 Hollow Fibre Oxygenator such as the type and arrangement of various ports, special features in flow dynamics and the low priming volume led to the development of this oxygenator with leading edge safety and performance features.



MEDOS HILITE® 7000

Venous Hardshell and Cardiotomy Reservoirs for Adults

SPECIFICATIONS

CLOSED SYSTEM



OPEN SYSTEM



MC 4040 Cardiotomy Reservoir for Adults

■ Operating volume	300 ml - 4000 ml
■ Blood flow rate	4 l/min
■ Cardiotomy filtration	40 µm screen filter, MC 4040
■ Port configurations	
Filtered and defoamed ports	
Sucker	6 x 1/4" - 3/8"
Quick prime	1 x 1/4", 1 x 3/8"
Luer lock	4 x female
Recirculation	1 x 1/4", 1 x DUNI
Non filtered and non defoamed ports	
Vent	1 x 1/4"
Luer lock	2 x female
Venous outlet	3/8"
■ Vacuum relief valve	-100 mmHg

MS Venous Softbag Reservoir for Adults

■ Maximum volume	800 ml
■ Recommended flow rate	1-7 l/min
■ Bubble trap	
Material	Polyester screen
Filtration	185 µm
■ Ports	depending on reservoir type

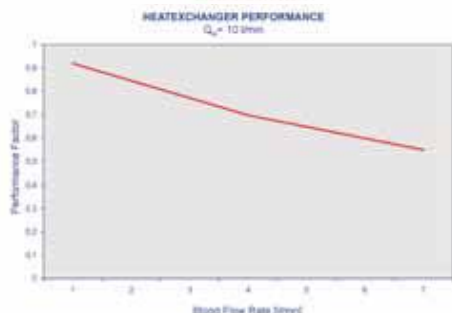
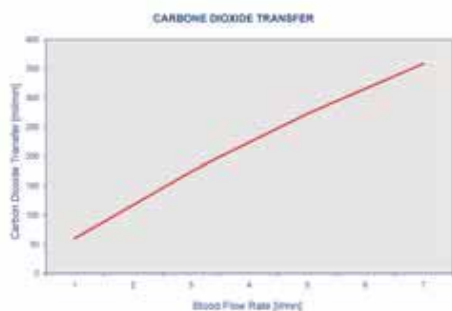
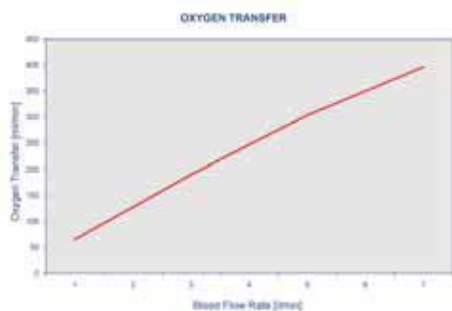
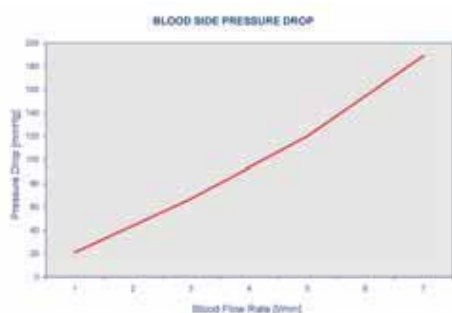
MVC 4030 Venous Hardshell Reservoir for Adults

■ Operating volume	300 ml - 4000 ml
■ Blood flow rate	
Venous section	up to 7 l/min
Cardiotomy section	up to 4 l/min
Maximum total flow	up to 7 l/min
■ Cardiotomy filtration	30 µm screen filter, MVC 4030
■ Port configurations	
Venous section defoamed ports	
Venous inlet	1/2", 360° rotatable
Luer lock	2 x female
Cardiotomy section, filtered and defoamed ports	
Sucker	6 x 1/4" - 3/8"
Quick primes	1 x 1/4", 1 x 3/8"
Luer lock	4 x female
Recirculation	1 x 1/4", 1 x DUNI
Non filtered and non defoamed ports	
Vent	1 x 1/4"
Luer lock	2 x female
Venous outlet	3/8"
■ Temperature port	at the venous inlet port
■ Vacuum relief valve	-100 mmHg

MEDOS HILITE® 7000

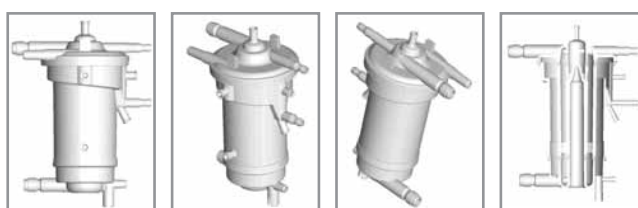
Performance Data HILITE® 7000 Hollow Fibre Oxygenator for Adults

PERFORMANCE DATA



Test conditions in accordance to the AAMI standard by usage of bovine blood

SPECIFICATIONS



Blood flow rate	1-7 l/min
Static priming volume	275 ml
Gas exchanger	
Material:	Polypropylene
Type:	Microporous hollow fibre
ID/CD:	280/380 μm
Surface:	1.9 m^2
Heat exchanger	
Material:	Polyester
Type:	Hollow fibre
Surface:	0.45 m^2
Port configurations	
Blood inlet/outlet:	3/8", 3/8"
Gas inlet/outlet:	1/4", 3/8"
Water inlet/outlet:	3/8" Hansen type coupling
Recirculation, arterial:	Quick connection DIN EN 1283 Luer lock female
Cardioplegia:	Quick connection DIN EN 1283
Blood sample, arterial:	Luer lock female
Temperature, arterial:	Luer lock female
Vent, venous:	Luer lock female



MEDOS HILITE® 2800 and 1000

Hollow Fibre Oxygenator for Paediatrics and Infants



Based on the established technology of the HILITE® 7000 Oxygenator, two smaller versions have been developed for the special requirements of Paediatrics and Infants. The outstanding technology ensures safe and reliable functionality and efficiency.

- Outstanding gas transfer
- Low priming volume
- Excellent blood and air handling
- Integrated heat exchanger

In addition to these features we have implemented innovative state of the art technologies.

The user can choose between a microporous and a closed fibre for the extended use.

Furthermore, an increased flow range offers a higher level of flexibility and safety for a wider range of applications.

Finally, all versions can be treated with RHEOPARIN®, the MEDOS Heparin Coating.



MEDOS HILITE® 2800 and 1000

Hollow Fibre Oxygenator for Paediatrics and Infants



1. Blood inlet
2. Recirculation
3. Blood outlet
4. Blood sample, arterial
5. Gas outlet
6. Water inlet
7. Water outlet
8. Gas inlet
9. Vent port, venous
10. Temperature, arterial
11. Port to remove remaining blood



MEDOS HILITE® 2800 and 1000

Venous Hardshell and Cardiotomy Reservoirs for Paediatrics and Infants

SPECIFICATIONS



Venous Hardshell Reservoir for Paediatrics and Infants

	Paediatric	Infant
■ Operating volume	50 ml - 1600 ml	50 ml - 700 ml
■ Blood flow rate		
Venous section	3 l/min	1.2 l/min
Cardiotomy section	2 l/min	0.9 l/min
■ Cardiotomy filtration	30 µm MVC 1630	30 µm MVC 0730
■ Port configurations		
Venous section, defoamed ports		
Venous inlet	3/8"	1/4"
Luer lock	2 x female	2 x female
Cardiotomy section, filtered and defoamed ports		
Sucker	4 x 3/16" - 1/4", 2 x 1/4"	4 x 3/16" - 1/4", 2 x 1/4"
Quick prime	1 x 1/4"	1 x 1/4"
Luer lock	4 x female	4 x female
Non filtered and non defoamed ports		
Vent	1 x 1/4"	1 x 1/4"
Luer lock	2 x female	2 x female
Venous outlet	1/4"	3/16" - 1/4"
■ Temperature port	at the venous inlet port	at the venous inlet port
■ Vacuum relief valve	-100 mmHg	-100 mmHg

Venous Softbag Reservoir for Paediatrics and Infants

■ Maximum volume	350 ml
■ Minimum volume	40 ml
■ Recommended flow rate	1-3 l/min
■ Bubble trap	
Material	Polyester screen
Filtration	185 µm
■ Ports	depending on reservoir type

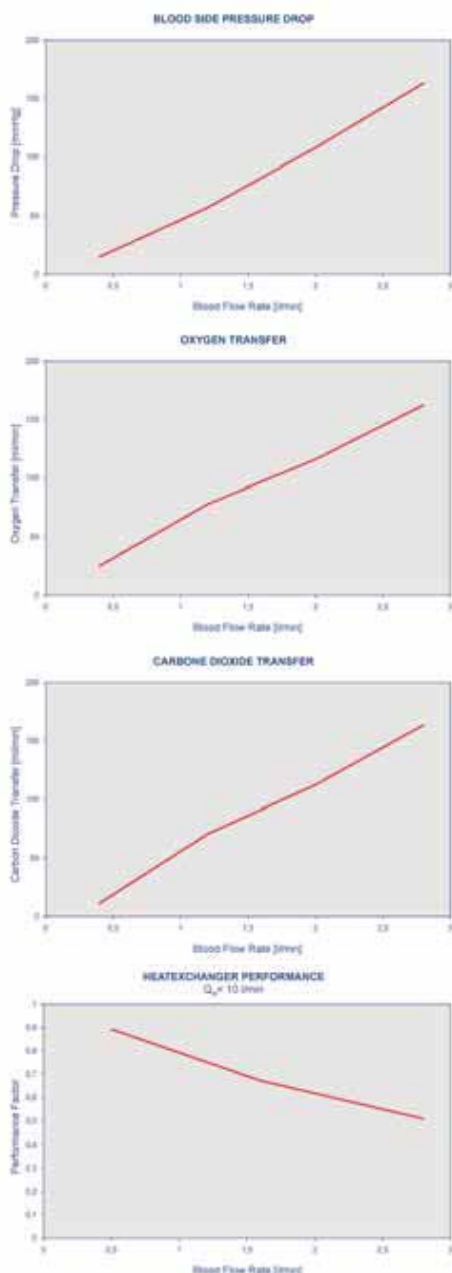
Cardiotomy Reservoir for Paediatrics and Infants

	Paediatric	Infant
■ Operating volume	50 ml - 1600 ml	50 ml - 700 ml
■ Blood flow rate	2 l/min	0.9 l/min
■ Cardiotomy filtration	40 µm MC 1640	40 µm MC 0740
■ Port configurations		
Filtered and defoamed ports		
Sucker	4 x 3/16" - 1/4", 2 x 1/4"	4 x 3/16" - 1/4", 2 x 1/4"
Quick prime	1 x 1/4"	1 x 1/4"
Luer lock	4 x female	4 x female
Non filtered and non defoamed ports		
Vent	1 x 1/4"	1 x 1/4"
Luer lock	2 x female	2 x female
Venous outlet	1/4"	3/16" - 1/4"
■ Vacuum relief valve	-100 mmHg	-100 mmHg

MEDOS HILITE® 2800

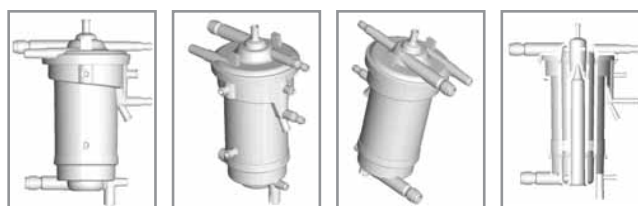
Performance Data HILITE® 2800 Hollow Fibre Oxygenator for Paediatrics

PERFORMANCE DATA



Test conditions in accordance to the AAMI standard by usage of bovine blood

SPECIFICATIONS



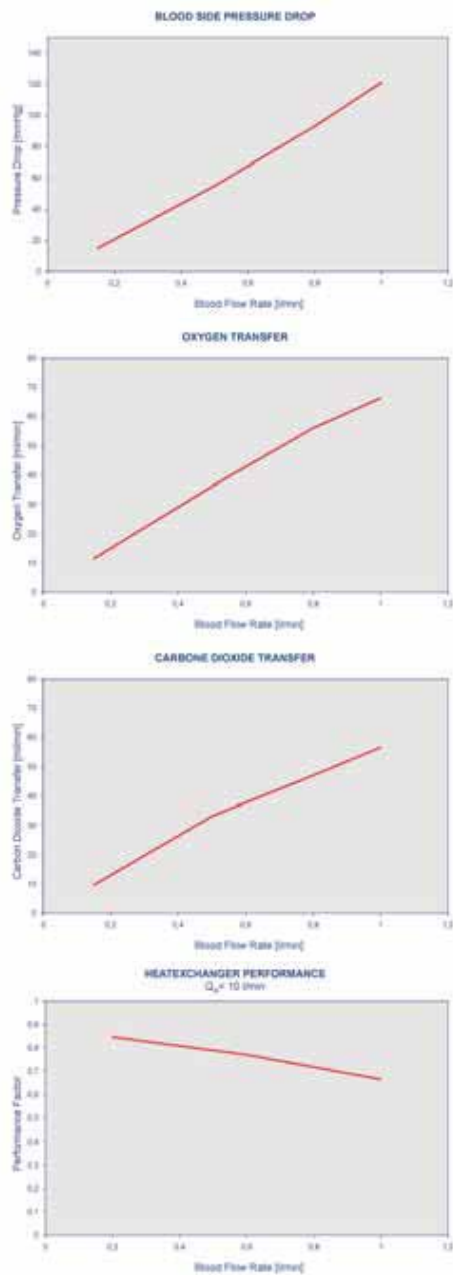
■ Blood flow rate	2.8 l/min
■ Static priming volume	98 ml
■ Gas exchanger	
Material:	Polypropylene
Type:	Microporous hollow fibre
ID/CD:	200/300 µm
Surface:	0.8 m²
■ Heat exchanger	
Material:	Polyester
Type:	Hollow fibre
Surface:	0.16 m²
Heat exchanger performance:	63%
■ Port configuration	
Blood inlet/outlet:	1/4", 1/4"
Gas inlet/outlet:	1/4", 3/8"
Water inlet/outlet:	1/4" Hansen type coupling
Recirculation, arterial:	Luer lock female
Blood sample, arterial:	Luer lock female
Temperature, arterial:	Luer lock female
Vent, venous:	Luer lock female
Port to remove remaining blood:	Luer lock female



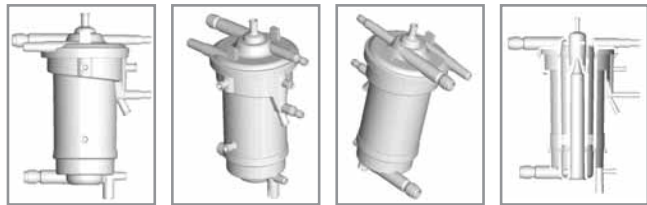
MEDOS HILITE® 1000

Performance Data HILITE® 1000 Hollow Fibre Oxygenator for Infants

PERFORMANCE DATA



SPECIFICATIONS



■ Blood flow rate	1.0 l/min
■ Static priming volume	57 ml
■ Gas exchanger	
Material:	Polypropylene
Type:	Microporous hollow fibre
ID/CD:	200/300 µm
Surface:	0.39 m ²
■ Heat exchanger	
Material:	Polyester
Type:	Hollow fibre
Surface:	0.074 m ²
Heat exchanger performance:	63%
■ Port configurations	
Blood inlet/outlet:	1/4" - 3/16", 1/4" - 3/16"
Gas inlet/outlet:	1/4", 1/4"
Water inlet/outlet:	1/4" Hansen type coupling
Recirculation, arterial:	Luer lock female
Blood sample, arterial:	Luer lock female
Temperature, arterial:	Luer lock female
Vent, venous:	Luer lock female
Port to remove remaining blood:	Luer lock female



MEDOS HILITE® 7000

Oxygenation Systems for Adults

ORDERING INFORMATION

PRODUCT

CODE

OXYGENATORS FOR ADULTS

HILITE® 7000 Hollow Fibre Oxygenator
blood inlet/outlet opposite

ME 6202 0001

HILITE® 7000 Hollow Fibre Oxygenator
blood inlet/outlet same side

ME 6202 0061

HILITE® 7000 System
including HILITE® 7000 Hollow Fibre Oxygenator ME 6202 0001
with adapted HILITE® MVC 4030 Venous Hardshell Reservoir

ME 6202 0002

HILITE® 7000 System
including HILITE® 7000 Hollow Fibre Oxygenator ME 6202 0061
with adapted HILITE® MVC 4030 Venous Hardshell Reservoir

ME 6202 0062

HOLDER

Holder for HILITE® 7000 Hollow Fibre Oxygenator

ME ZH 0000

Holder for HILITE® 7000 Hollow Fibre Oxygenator with
adapted HILITE® MVC 4030 Venous Hardshell Reservoir

ME ZH 0018

FITTINGS

Stop arm middle piece, h 30 mm for greater flexibility, length to 60 mm

ME ZHMT 0030

Stop arm middle piece, h 40 mm for greater flexibility, length to 150 mm

ME ZHMT 0040

Holder for stopcock manifold

ME ZHHB 0080

Water coupling for Hollow Fibre Oxygenator with tubing connector, straight

ME ZW02 0005

Water coupling for Hollow Fibre Oxygenator with tubing connector, 90° bend

ME ZW02 0006

Temperature Probe

ME 4700

CE
0481



MEDOS HILITE® 2800 and 1000

Hollow Fibre Oxygenator for Paediatrics and Infants

ORDERING INFORMATION

PRODUCT

CODE

OXYGENATORS FOR PAEDIATRICS AND INFANTS

**HILITE® 2800 Paediatric Hollow Fibre Oxygenator
with microporous fibre**

ME 6205 0001

**HILITE® 1000 Infant Hollow Fibre Oxygenator
with microporous fibre**

ME 6208 0001

**HILITE® 2800 System for Paediatrics
including HILITE® 2800 Hollow Fibre Oxygenator ME 6205 0001
with adapted HILITE® MVC 1630 Venous Hardshell Reservoir**

ME 6205 0002

**HILITE® 1000 System for Infants
including HILITE® 1000 Hollow Fibre Oxygenator ME 6208 0001
with adapted HILITE® MVC 0730 Venous Hardshell Reservoir**

ME 6208 0002

HOLDER

Holder for HILITE® Paediatric and Infant Oxygenators

ME ZH 0502

Holder for HILITE® Paediatric and Infant Oxygenation Systems

ME ZH0R 5002

FITTINGS

**Water coupling for HILITE® Paediatric and Infant Oxygenators,
tubing connector, straight**

ME ZW05 0005

**Water coupling for HILITE® Paediatric and Infant Oxygenators,
tubing connector, 90° bend**

ME ZW05 0006

**Water coupling for HILITE® Paediatric and Infant Oxygenators,
3/8" Hansen connector, straight**

ME ZW05 0007

**Water coupling for HILITE® Paediatric- and Infant Oxygenators,
3/8" Hansen-connector, 90° bend**

ME ZW05 0008

Temperature Probe

ME 4700

**All MEDOS Oxygenators of the HILITE® product family
can be processed with Heparin coating RHEOPARIN® CE0123**

CE
0481



MEDOS HILITE®

Oxygenation Systems for Adults, Paediatrics and Infants



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