



Hemoclean **bd**

We Are Specialized In The Fields Of Hemodialysis Products



4008S

The next generation

The next generation 4008S dialysis machine is designed for ease of use while providing the highest standards of patient safety and treatment hygiene.

Assured adequacy with the
OCM® On-Line (Kt/V)

Dialysate ultrafiltration with
DIASAFE®*plus*

Compatible with all types of
HD disposables

Blood Pressure Monitoring
using the BPM

Backed by Fresenius Medical
Care service excellence

- DIASAFE® *plus*- ensures ultrapure dialysate
- Proved reliability
- Volumetrically controlled ultrafiltration and closed-system hydraulics
- UF and sodium profiling
- Battery backup



Technical Data (4008S version Next Generation V10, Article number M204001)
General data

Dimensions	1370 x 480 x 480 mm (H x W x D) (depth of pedestal 630 mm) Weight approx. 86kg
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Water supply	
Water inlet pressure	1.5 - 6.0 bar
Water inlet temperature	5°C - 30°C
Max. drain height	1 m

Concentrate supply	
Supply pressure	1 m suction height

Electrical data	
Power supply	230 V $\pm$ 10%, 47 - 63 Hz
Current consumption	max. 9 A
Power supply	110 V $\pm$ 10%, 47 - 63 Hz
Current consumption	max. 15 A

External connections	"Alarm in": zero potential alarm inlet "Alarm out": zero potential alarm outlet
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Extracorporeal circuit

Arterial pressure monitoring	
Display range	-300 mmHg to + 280 mmHg
Accuracy	$\pm$ 10 mmHg
Resolution	20 mmHg

Venous pressure monitoring	
Display range	-60 mmHg to + 520 mmHg
Accuracy	$\pm$ 10 mmHg
Resolution	20 mmHg

Transmembrane pressure monitoring	
Display range	-60 mmHg to + 520 mmHg
Resolution	20 mmHg

Arterial blood pump	
Blood flow range	15 to 600 mL/min in 8 mm bloodline systems
Accuracy	$\pm$ 10%

Air bubble detector	by ultrasound transmission, additional optical monitoring in venous clamp
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Heparin pump	
Delivery range	0 to 10 mL/h
Bolus function	max. 5 mL per bolus
Syringe size	20 mL

Dialysis fluid circuit

Dialysis fluid flow range	
Selectable	0 - 300 - 500 - 800 mL/min

Dialysis fluid temperature	
Selectable	35°C to 39°C

Dialysis fluid conductivity	
Range	12.8 to 15.7 mS/cm (25°C)
Accuracy	$\pm$ 0.1 mS/cm

Acid concentration dialysis fluid	
Default mixing ratio	1 + 34 (others possible)
Range	125 to 150 mmol/L

Bicarbonate concentration dialysis fluid	
Default mixing ratio	1 + 27.6 (other possible)
Range	-8 to + 8 mmol/L bicarbonate

Bicarbonate dry concentrate	bibag® 5008
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Ultrafiltration	
UF rate	0 to 4.00 l / h
Accuracy	$\pm$ 1%
Allowed dialyser UF factor	unlimited
Parameters displayed	UF goal, UF time, UF rate, UF volume

Blood leak detector	
Sensitivity	$\leq$ 0.5 mL blood/min (Hct = 25%) at max. flow 800 mL/min

DISAFE®plus - Dialysis fluid filter system	
Balancing accuracy	$\pm$ 0.1% of dialysate flow

OCM® - Online Clearance Monitor

Accuracy Clearance K	$\pm$ 5%
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Disinfection and cleaning programmes*

Rinse	
Temperature/flow	37°C / 600 mL/min

Hot rinse (recirculation)	
Temperature/flow	84°C / 450 mL/min

Integrated hot rinse	
Temperature/flow	84°C / 450 mL/min

Cleaning Sporotal® (recirculation)	
Temperature/flow	37°C / 650 mL/min

Hot disinfection Diasteril® (recirculation)	
Temperature/flow	84°C / 450 mL/min

Disinfection Puristeril® 340 (recirculation)	
Temperature/flow	37°C / 650 mL/min

*Various programme combinations selectable.

Technical Data - Options

Single-Needle	With 2 blood pumps. Internal pressure/pressure control with variable stroke volume
Article no. M408641	

Blood Pressure Monitor (BPM) Article no. M409281	
Display range	Systole: 30 - 280 mmHg Diastole: 10 - 240 mmHg MAP: 20 - 255 mmHg Accuracy: 1 mmHg

Central Delivery System for acid conc. Article no. M417651	
Supply pressure	0 to 100 mbar; 1 m suction height with Central Delivery System: 0 - 500 mbar

Network	RJ45/Ethernet for data exchange with therapy Data Management System/Finesse®
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Introducing the new 4008A

Life changing safety and handling standards

The new 4008A at a glance

Suit your budget

Intuitive
touch screen



DIASAFE®plus



Battery
back up



Patient
monitoring



Cleaning
programs



Cost efficiency



Technical Data

Haemodialysis Machine 4008A



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General Data	
Dimensions 4008A	Height: approx. 134 cm (approx. 149 cm with infusion hook) Width: approx. 50cm (approx. 57cm with dialyser holder and approx. 63 cm with degreasing agent container) Depth: approx. 65 cm (approx. 71 cm with DIASAFE plus, approx. 80cm with disinfectant container)
Weight	Empty weight including all options: approx. 61kg Safe working load: approx. 39 kg Maximum total weight: approx. 100 kg
Water supply	
Water inlet pressure	1.5 to 6.0 bar
Water inlet temperature	5°C to 30°C
Max. drain height	1 m
Electrical data	
Power supply	110 to 240 V AC, 50 to 60 Hz, 10 to 15 A
Current consumption	The consumption and energy data are comprised of examples of average values during typical operation: Blood pump rate: 300ml/min Dialysate flow: 500ml/min Ultrafiltration: 0.5 l/h Dialysate temperature: 36.5°C Mixing ratio: 1+44 Ambient conditions: Water inlet temperature 15°C, ambient temperature 22°C. Mean energy consumption Dialysis: approx. 0.59 kWh per hour Rinsing: approx. 0.26 kWh (program length of 16 minutes) Heat disinfection: approx. 0.62 kWh (program length of 41 minutes) Degreasing: approx. 0.45 kWh (program length of 41 minutes)

Extracorporeal circuit

Arterial pressure monitoring	
Display range	-300 to +280 mmHg
Accuracy	±10 mmHg
Resolution	5 mmHg
Venous pressure monitoring	
Display range	-60 to +520 mmHg
Accuracy	±10 mmHg
Resolution	5 mmHg
Arterial blood pump	
Blood flow range	0,30 to 500 mL/min
Accuracy	±10%
Resolution	10 mL/min
Heparin pump	
Delivery range:	0.5 to 10 mL/h
Bolus function:	1.0 to 9.9 mL
Syringe size:	20 mL

Dialysis fluid circuit

Dialysis fluid flowrange	
Dialysate flow	300, 500 ml/min
Dialysis fluid temperature	
Selectable	35.0°C to 39.0°C (adjustable in increments of 0.5°C) target temperature 35.0°C to 39.0°C adjustable in increments of 0.5°C Measurement accuracy: ±0.5°C Alarm limits: 33.5°C and 40.0°C
Dialysis fluid conductivity	
Range	12.8 to 15.7 mS/cm
Accuracy	±0.1mS/cm
Resolution	0.1mS/cm
Dialysis fluid acid component	
Mixing ratio	Adjustable, e.g. 1+44, 1+34
Adjustment range	125 to 150 mmol/L
Dialysis fluid bicarbonate component	
Mixing ratio	1 + 27.6 (others possible)
Adjustment range	-8 to +8mmol/L
Endotoxin retention filter	
Dialysis fluid filter system	DIASAFE® plus
Balancing accuracy	
Pressure holding tests	±0.1% relative to the total dialysate volume Event controlled
Ultrafiltration	
UF rate	Selectable UF time: 0:01h to 9:59 h (in 1 min increments) Selectable UF goal: 10 ml to 9,990 ml (in 10 ml increments)
Pump volume accuracy	±1%
Parameters displayed	UF goal, UF time, UF rate
Blood leak detector	
Sensitivity	Response threshold less than or equal to 0.35 ml blood loss per minute into the dialysate for a haematocrit of 0.32

Disinfection and cleaning programmes

Rinse	
Temperature /flow	37°C/700 mL/min
Heat disinfection	
Temperature/flow	84°C/700 mL/min
Degreasing	
Temperature/flow	37°C/700 mL/min

Technical changes reserved.

Article Number: M202201

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5008S

The Practical Approach to ONLINE HDF

- Offering ONLINE HDF as Standard for All Patients (Including ICU) with SLED

Advanced features include:

- Dialysis fluid circuit (Selectable):
0- 1,000 mL/min (steps of 100 mL/min)

- Blood flow range (effective)
30 to 600mL/min

Advanced features include:

- Centralised operation and information via a large touch screen interface.
- Intuitive user guidance system.
- Ergonomic handling, e.g. one handed connection of bibag®.
- Seamless work-flow including multiple machine-assisted procedures.
- Easy, rapid and safe data management via PatientCard or network (Therapy Data Management System - TDMS).





Technical Data Haemodialysis Machine 5008 S

Technical Data 5008S

General data

Dimensions 5008S	1,680 x 350 x 780 mm (H x W x D) at bed/dialysis chair level (width at base: 520 mm, depth with canister holder: 900mm)
Weight	approx. 100 kg
Monitor/Screen	15" high-resolution TFTLCD with touch screen user interface. Monitor rotatable around the 3 axes
Card reader	Smart card (ICC) for Patient, User and ServiceCard
Water supply	
Water inlet pressure	1.5 - 6.0 bar
Water inlet temperature	5 - 30°C; for "integrated hot rinse" 85 - 95°C
Max. drain height	1 m
Flush	Rinse of water supply area (option)
Concentrate supply	
Supply pressure	0 to 100 mbar; 1 m suction height with Central Delivery System: 0.05 to 2.0 bar
Central supply	1 central acid concentrate (option)
Electrical data	
Power supply	100 to 240 V AC $\pm$ 10%, 47 - 63 Hz
Current consumption	Approx. 6 A (at 230 V) at a water inlet temperature of 17°C, Dialysate temperature 37°C Dialysate flow: 500 mL/min
External connections	Alarm output: potential free alarm outlet (alternating contact max. 24 V/24 W). LAN (RJ 45) port for data exchange with Therapy Data Management System/Finesse®

Extracorporeal circuit

Arterial pressure monitoring	
Display range	- 300 mmHg to + 300 mmHg
Accuracy	$\pm$ 7 mmHg
Resolution	5 mmHg
Venous pressure monitoring	
Display range	- 100 mmHg to + 500 mmHg
Accuracy	$\pm$ 7 mmHg
Resolution	5 mmHg
Transmembrane pressure monitoring	
Display range	- 100 mmHg to + 400 mmHg
Resolution	5 mmHg
Arterial blood pump	
Blood flow range (effective)	30 to 600 mL/min
Accuracy	+ 10%
Single-Needle system (Option)	2 blood pumps. Internal pressure/pressure control with variable stroke volume (max. 50 mL)
Air bubble detector	Ultrasound transmission measurement on blood line, additional capacitive level and optical monitoring
Heparin pump	Delivery range: 0.5 to 10 mL/h Bolus function: 1.0 up to 20.0 mL Syringe size: 30 mL

Dialysis fluid circuit

Dialysis fluid flow range	
Selectable	0 - 1,000 mL/min (steps of 100 mL/min)
AutoFlow (selectable)	Automatic adaptation of the dialysate flow to the effective blood flow (factors adjustable)

EcoFlow	Stand-by flow of 100/150 mL/min (HD/HDF) during preparation and reinfusion
Dialysis fluid temperature	34 - 39°C
Dialysis fluid conductivity	
Range	12.8 - 15.7 mS/cm
Accuracy	$\pm$ 0.1 mS/cm
Sodium concentration dialysis fluid	
Mixing ratio	Freely adjustable e.g. 1 + 44, 1 + 34
Adjustment range	125 to 151 mmol/L, depending on the concentrate used $\pm$ 10% of the base value
Bicarbonate concentration dialysis fluid	
Default mixing ratio	1 + 27.6 (others possible)
Adjustment range	24.0 - 40.0 mmol/L (steps of 0.5 mmol/L)
Bicarbonate dry concentrate	bibag®
Balancing accuracy	$\pm$ 0.1 % related to the total dialysate volume
Pressure holding test	Event controlled
Ultrafiltration	
UF rate	0 - 4,000 mL/h (in steps of 10 mL)
Pump volume accuracy	$\pm$ 1%
Parameters displayed	UF goal, UF time, UF rate, UF volume
Blood leak detector	
Sensitivity	$\leq$ 0.5 mL blood/min (Hct = 25%) flow rate 100 mL/min - 1,000 mL/min
Dialysis fluid filter system	DIASAFE®plus
ONLINEplus	ONLINE Haemo(dia)filtration
Substitution rate	25 - 600 mL/min
Accuracy	$\pm$ 10%
AutoSub	Substitution ideally matched to effective blood flow
OCM®	Online Clearance Monitoring
Accuracy Clearance K	$\pm$ 6%
BPM (Option)	
Display range	Systole: 30 mmHg - 280 mmHg Diastole: 10 mmHg - 240 mmHg MAP: 20 mmHg - 255 mmHg
Accuracy	$\pm$ 3 mmHg
BTM (Option)	
Temperature measurement	Accuracy + 0.2°C
Body temperature control	Allowed change rate $\pm$ 0.5°C/h
Recirculation measurement	Accuracy $\pm$ 2%
Disinfection and cleaning programmes*	
Rinse	
Temperature/flow	37 °C/600 - 800 mL/min (adjustable)
Hot rinse (recirculation)	
Temperature/flow	85 °C/600 - 800 mL/min (adjustable)
Cleaning Sporotal® 100 (recirculation)	
Temperature/flow	37 °C/600 - 800 mL/min (adjustable)
Heat disinfection Diasteril® Crtrosteril® (recirculation)	
Temperature/flow	85 °C/600 - 800 mL/min (adjustable)
Disinfection Puristeril® 340/plus (recirculation)	
Temperature/flow	37 °C/600 - 800 mL/min (adjustable)

*Various programme combinations selectable. Technical changes reserved.





multiFiltratePRO A Perfect Fit for Every Team

Setting the standard in CRRT

The multiFiltrate PRO is a new generation CRRT device building on the substantial experience with the multiFiltrate and the successfully integrated Ci-Ca® regional anticoagulation. Patients receiving CRRT with regional citrate anticoagulation benefit from less bleeding, long filter running times and lower blood product requirements^{1,2,3}.

The multiFiltrate PRO offers Ci-Ca® therapy modes as well as all common standard CRRT options:

- Ci-Ca® CWHDF AV1000S
- Ci-Ca® CWHDF EMiC®2
- Ci-Ca® postCWHDF
- CWHDF
- Post-CWHDF
- Pre-CWHDF
- Post-CWH
- Pre-CWH
- Pre-post CWH

References

- 1 KDIGO Clinical Practice Guideline for Acute Kidney Injury. Kidney Int Suppl 2012. 2:1-138
- 2 Kalb R et al., Regional citrate anticoagulation for high volume continuous venovenous hemodialysis in surgical patients with high bleeding risk. Ther Apher Dial 2013. 17:202-12
- 3 Morgera S et al., A safe citrate anticoagulation protocol with variable treatment efficacy and excellent control of the acid-base status. Crit Care Med 2009. 37:2018-24



Technical Data mlti**Filtare**PRO



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Dimensions and weight	
Height	167 cm
Width	65 cm
Depth	69 cm
Weight	approx. 95 kg
Electrical supply	
Voltage	100-240 V AC 50-60 Hz
Current consumption	max. 4.4 A (24.0 V AC) max. 12 A (100 V AC)
Lead acid battery	2 x 12 V/7.2 Ah, maintenance-free
Emergency operation duration (Only blood pump)	min. 15 min
Electrical supply	
Type of protection against electrical shock	Protection class I
Level of protection against electrical shock	Type CF (200-230 V, 50 Hz) (100-127 V, 50 Hz) (100-127 V, 60 Hz) Type bF (240 V, 50 Hz) (200-240 V, 60 Hz)
Flow rates (depending upon treatment procedures)	
Blood flow	10-500 mL/min, +10%
Substitute flow	10-80 mL/min
Dialysate flow	10-80 mL/min
Filtrate flow	0-180 mL/min
Net. ultrafiltration rate (net. weight loss)	0-990 mL/h Increments 10 mL/h
Citrate flow (Ci)	10-600 mL/h
Citrate dose (citrate/blood)	2.0-6.0 mmol/L blood Increments: 0.1 mmol/L
Calcium flow (Ca)	0; 1-100 mL/h
Calcium dose (calcium/filtrate)	0-3.0 mmol/L filtrate Increments: 0.1 mmol/L
Balance	
Number of scales	4
Measurement principle	gravimetric
Load capacity per scale	max. 12 kg
Resolution per scale	1 g
Linearity deviation	max. +1%
Maximum balancing deviation	< 100 mL/h
Total balance error	Adult: max. 500g

Heating	
Substitute temperature	Off/ 35 - 39 °C
Dialysate temperature	Off/ 35 - 39 °C
Equipment function	
Screen	15", TFT LCD
Event storage	stores up to 3.500 events
Service menu	Settings via the screen
Access pressure	
Display range	-300 to +300 mmHg
Accuracy	±10 mmHg
Trans membrane pressure	
Display range	-100 to +500 mmHg
Accuracy	±10 mmHg
Pre -filter pressure	
Measurement range	-50 to +750 mmHg
Accuracy	±10 mmHg
Air detector	
Measurement procedure	Ultrasound transmission
Sensitivity	Air bubbles, blood foam or microbubbles
Optical detector	
Measurement procedure	Infrared transmission
Function	Detection of blood - no blood
Blood leak detector	
Measurement procedure	optical
Sensitivity (blood with HCT 32 %)	≤ 0.5 mL/min blood loss
Syringe pump (antic oagulants)	
Continuous flow	0.5-25 mL/h
Resolution	0.1 mL/h
Accuracy for flow between 1 and 25 mL/h	± 5%
Bolus	0.1-5 mL/bolus
Bolus flow	30 mL/min
External connection	
LAN-connector: RJ 45	Interface for data exchange Electrically isolated by transformet
Alarm output	Potential-free alarm output



**FRESENIUS
MEDICAL CARE**
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F6HPS

F7HPS



F8HPS

Low-FluxDialyzers

Fresenius Polysulfone (HPS)

INLINE steam sterilisation

In vitro performance data/technical data

	F4HPS	F5HPS	F6HPS	F7HPS	F8HPS	F10HPS
Ultrafiltration coeff. (mL/h x mmHg)	8	10	13	16	18	21
Clearance $Q_B = 200$ mL/min						
Urea	170	179	186	188	190	– *
Creatinine	149	162	173	175	177	–
Phosphate	123	139	148	155	159	–
Vitamin B ₁₂	75	84	92	102	106	–
Clearance $Q_B = 300$ mL/min						
Urea	– *	227	243	247	252	259
Creatinine	–	196	215	220	224	230
Phosphate	–	162	175	186	193	208
Vitamin B ₁₂	–	91	100	113	118	131
In vitro performance: $Q_D = 500$ mL/min, $Q_F = 0$ mL/min, $T = 37^\circ\text{C}$ (EN 1283, ISO 8637). Ultrafiltration coefficients: human blood, hct 32%, protein content 6%. Use only on machines with controlled ultrafiltration!						
					* refer to recommended blood flow range	
Effective surface (m ²)	0.8	1.0	1.3	1.6	1.8	2.2
Blood flow range (mL/min)	50 - 200	100 - 300	150 - 400	200 - 500	250 - 600	300 - 600
Wall thickness / lumen (μm)	40/200	40/200	40/200	40/200	40/200	40/200
Priming volume (ML)	51	63	78	96	113	132
Membrane material	Fresenius Polysulfone					
Housing material	Polycarbonate					
Potting compound	Polyurethane					
Sterilisation method	INLINE Steam					
Form of treatment	HD					
Units per box	12	12	12	12	12	12
Art. -No.	500 704 1	500 705 1	500 706 1	500 707 1	500 708 1	500 720 1

- Higher clearances by a new design
- Excellent blood compatibility
- High endotoxin retention capacity





FX-class Low-Flux Dialysers

INLINE Steam sterilised

Suit your budget

Maximum endotoxin retention



FX 8



FX 10

helixone®

helixone®

In vitro performance data/technical data

	FX 5	FX 8	FX 10
Ultrafiltration coeff. (mL/h x mmHg)	8	12	14
Clearance $Q_B = 200$ mL/min			
Urea	189	191	193
Creatinine	165	178	181
Phosphate	141	160	170
Vitamin B ₁₂	88	107	121
Clearance $Q_B = 300$ mL/min			
Urea	228	254	261
Creatinine	200	225	231
Phosphate	164	194	210
Vitamin B ₁₂	94	120	138

In vitro performance: $Q_D = 500$ mL/min, $Q_F = 0$ mL/min, $T = 37^\circ\text{C}$. (EN 1283, ISO 8637).

Ultrafiltration coefficients: human blood, hct 32%, protein content 6%. Use only on machines with controlled ultrafiltration!

* refer to recommended blood flow range

Effective surface (m ²)	1.0	1.6	1.8
Blood flow range (mL/min)	100 - 300	150 - 400	200 - 500
Wall thickness / lumen (μm)	35/185	35/185	35/185
Priming volume (ML)	54	74	95
Membrane material		Helixone®	
Housing material		Polypropylene	
Potting compound		Polyurethane	
Sterilisation method		INLINE Steam	
Form of treatment		HD	
Units per box	20	20	20
Art. -No.	500 435 1	500 473 1	500 474 1



**FRESENIUS
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FX-class High-Flux Dialysers

INLINE Steam sterilised

- The Helixone membrane has a high endotoxin retention capacity, which minimizes the risk of inflammation.²
- Highest level of biocompatibility
- Maximum endotoxin retention
- High performance
- Cost saving potential



Performance data

FX classix High-Flux dialysers	Molecular weight (Dalton)	FX 50 _{classix}	FX 60 _{classix}	FX 80 _{classix}	FX 100 _{classix}
Clearance ($Q_b = 300\text{ mL/min}$)					
Cytochrome c	12,230	55	74	89	100
Inulin	5,200	72	95	113	122
Vitamin B ₁₂	1,355	137	162	185	201
Phosphate	132	204	225	244	253
Creatinine	113	224	243	259	264
Urea	60	253	266	279	280
Clearance ($Q_b = 400\text{ mL/min}$)					
Cytochrome c	12,230	-	76	92	105
Inulin	5,200	-	99	119	129
Vitamin B ₁₂	1,355	-	175	202	222
Phosphate	132	-	252	279	291
Creatinine	113	-	277	300	309
Urea	60	-	312	334	336
Ultrafiltration coeff. (mL/h x mmHg)					

Sieving coefficients		
Albumin	66,500	<0.001
Myoglobin	17,053	0.1
β_2 microglobulin	11,731	0.7
Inulin	5,200	1

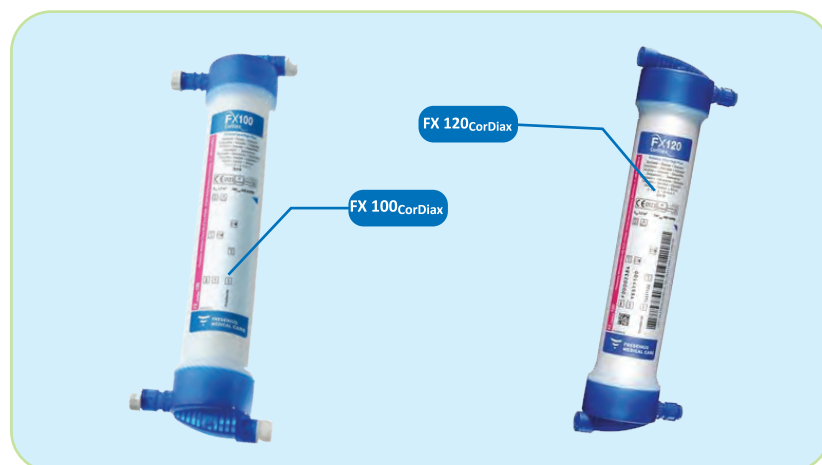
In vitro performance: $Q_b = 500\text{ mL/min}$, $Q_f = 0\text{ mL/min}$, $T = 37^\circ\text{C}$ (En 1283, ISO 8637). Ultrafiltration coefficients: human blood, Hct 32% protein Content 6%

Membrane material	Helixone®
Sterilisation method	INLINE steaam
Housing material	Polypropylene
Potting compound	Polyurethane
Units per box	24

Effective surface (m ²)	1.0	1.4	1.8	2.2
K _o A Urea	866	1,068	1,394	1,429
Priming volume (mL)	53	74	95	116
Article number	F00002385	F00002386	F00002387	F00002388

FX CorDiax Series High-Flux Dialysers

INLINE Steam sterilisation



- Superior Endotoxin Retention
- Enhanced Middle Molecule Removal

Performance Data

Sieving coefficients of FX CorDiax High-Flux Dialysers and Haemodia filters	Molecular weight (Dalton)			
Albumin	66,500			<0.001
Myoglobin	17,053			0.5
β_2 microglobulin	11,731			0.9
Inulin	5,200			1

Membrane material				Helixone plus		
Sterilisation method				INLINE steam		
Housing material				Polypropylene		
Potting compound				Polyurethane		
Units per box				24		

FX CorDiax High-Flux Dialysers		FXcorDiax40	FXcorDiax50	FXcorDiax60	FXcorDiax80	FXcorDiax100	FXcorDiax120
Clearance ($Q_d = 300$ mL/min)							
Cytochrome c	12,230	48 *	76	96	111	125	136
Inulin	5,200	56 *	88	116	127	144	149
Vitamin B ₁₂	1,355	96 *	144	175	190	207	213
Phosphate	132	142 *	215	237	248	258	262
Creatinine	113	155 *	229	252	261	272	274
Urea	60	175 *	255	271	280	283	284
Clearance ($Q_d = 400$ mL/min)							
Cytochrome c	12,230	–	–	100	117	133	145
Inulin	5,200	–	–	122	135	154	160
Vitamin B ₁₂	1,355	–	–	191	209	229	237
Phosphate	132	–	–	270	286	299	305
Creatinine	113	–	–	290	303	321	325
Urea	60	–	–	319	336	341	343

*Clearance ($Q_d = 400$ mL/min)

Ultrafiltration coeff. (mL/h x mmHg)		21	33	47	64	74	87
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In vitro performance: $Q_d = 500$ mL/min, $Q_f = 0$ mL/min, $T = 37^\circ\text{C}$ (EN 1283). Sieving coefficients: human plasma, Q_b max, $QF = 0.2 Q_b$ max (EN1283).

Ultrafiltration coefficients: human blood (Hct 32%, protein content 6%).

Effective surface (m ²)		0.6	1.0	1.4	1.8	2.2	2.5
K _o A Urea		547	886	1,164	1,429	1,445	1,584
Priming volume (mL)		32	53	74	95	116	132
Article number		F00001588	F00001589	F00001590	F00001591	F00001592	F00002384


**FRESENIUS
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DIASAFE[®] plus Filter

Fresenius Polysulfone[®] Dialysis Fluid Filter

Technical Data

Membrane material	Fresenius Poltsulfone [®]
Effective Surface (m ²)	2.2
Weight (g)	170
Housing material	Polypropylene
Potting material	Polyurethane
Sealings	Silicone
Connection to machine	DIAFIX [™] Lock System
Filtration rate	5 mL/min mm HG (3.75 L/min bar; max. 2bar)
Operating time	Standard HD: max. 12 weeks ONLINE HF/HDF, ONLINE priming / rinsing: max. 12 weeks or 100 treatments
Disinfection	Puristeril [®] 340 or Puristeril [®] plus (peracetic acid) Diasteril [®] (hydroxyacetic acid) or Citrosteril [®] (citric acid) Sporotal [®] 100 (sodium hypochlorite) max. 11 times
Article number	F00005662





Citrosteril Solution For Heat Disinfection of Haemodialysis Machines with Recirculation

- pH value 1.7 to 2.0
- dissolution of blood residues
- excellent removal of CaCO_3
- disinfection and decalcification in one process
- active ingredients composed of natural substances
- biodegradable
- odourless
- free from colouring additives

Citrosteril at 84°C has a broad spectrum of microbicidal activity and works bactericidal, virus inactivating (HBV, HCV, HIV) and fungicidal.

Specifications and order information:

100g Citrosteril contains:

21g citric acid 1-hydrate; lactic acid, malic acid

Unit	Language combination	Art. No.
1 x 5L	multilingual	508 533 1
6 x 2L	multilingual	508 536 1



Blood Tubing Set for Dialysis



Fresline BLOOD Tubing Systems

Article #	Configuration	Filling Volume	Pump Inner Diameter	Unite per box
BLU001E	Arterial Line, Venous Line, 2 TPs, 2 RCs	156 mls	8.0 mm	24
BLU003E	Arterial Line, Venous Line, no TPs, 2 RCs	154 mls	6.3 mm	24
BLU004E	Arterial Line, Venous Line, Infusion Line, 2 TPs, 2 RCs, Drainage bag	164 mls	8.0 mm	24
BLU005E	Arterial Line, Venous Line, 2 TPs, 2 RCs	156 mls	8.0 mm	24
BLU009E	Arterial Line, Venous Line, Infusion Line, 2 TPs, 2 RCs, Drainage bag	164 mls	8.0 mm	24
BLU012E	Arterial Line, Venous Line, Infusion Line, 1 TPs, 2 RCs, (shorter arterial line)	153 mls	6.3 mm	24
BLU012E	Arterial Line, Venous Line, 1 TPs, 2 RCs	197 mls	6.3 mm	





Flexible Design
Exceptional Performance

Water Treatment Plant for Dialysis Machine

Fresenius Medical Care, Germany

Model: AquaBplus 500-3000 L/H

Single Stage and Double Stage (Depend on Customers Choice)

Choose AquaBplus:

Streamlined installation.
Full service. Every setup of the way.



BCM-Body Composition Monitor

A building block of systematic Fluid Management



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Technical information

Overhydration (OH) (pre-/postdialytic)	[L]
Leantissue index (LTI)	[kg/m]
Fat Tissue Index (FTI)	[kg/m]
Total Body Water (TBW) (Urea distribution volume V)	[L]
Extracellular Water (ECW)	[L]
Intracellular Water (ICW)	[L]
ECW/ICW	-
Lean tis sue mass	[kg] and [%]
Fat mass	[kg] and [%]
Adipose tissue mass	[kg]
Body cell mass	[kg]

BCM-Body Composition Monitor device, 10 PatientCards, 40 disposable electrodes (10 x 4), patient cable, AC adapter, test box	H02 201 1
BCM-Body Composition Monitor electrodes	Art. No.
40 disposable electrodes (10x4)	M35 143 1
40 disposable electrodes for children (10x4)	M41 656 1
Fluid Management Tool	Art. No.
Single installation license	F40005478
Card Reader "UniCcard"	M20 198 1
PatientCards	Art. No.
10 pieces	M34 860 1
Accessories	Art. No.
BCM carrying case	M40 179 1
BCM porter	629 743 1

Technical changes reserved!

Measurement time (including patient preparation)	approx. 2 min.
Data output	LC-Display; integrated SmartCard writer
Measuring frequency range	50 discrete frequencies in the range from 5-1000 kHz
Battery	Lithium-Ion battery, five-hour capacity
AC adapter	100-240 V AC; 50-60 Hz
Operating conditions	0°C-35°C, 30- 70% humidity
DImensions	16.9 x 11.2 x 27.2 cm (W x Hx D), 2 kg (weight)
Medical device class (acc. to EU directive 93/42/EEC)	Ila



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