

Devices



Filters



Kits



Fluids

Acute Blood Purification



Blood-gas exchanger



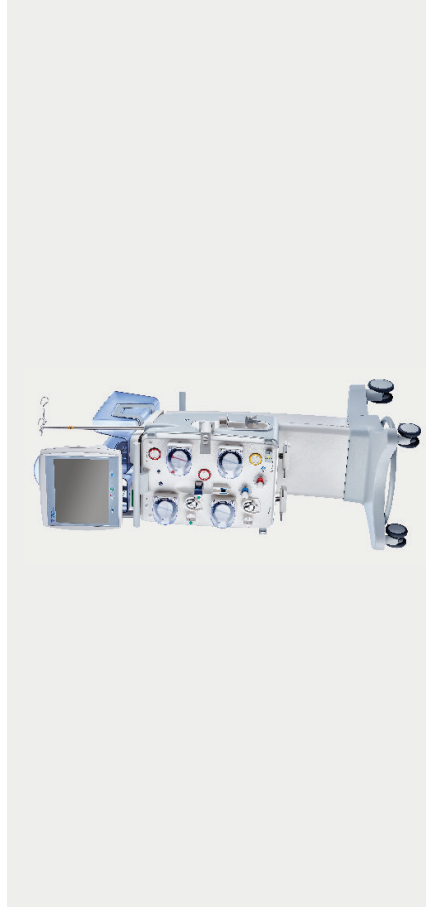
Adsorber



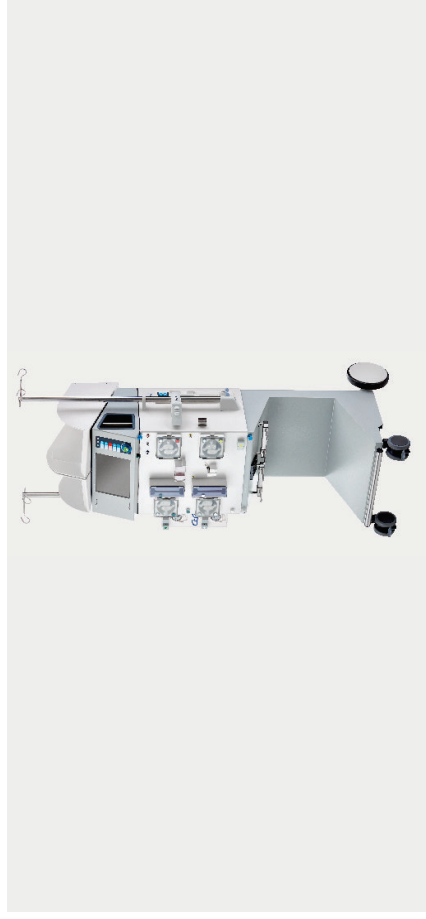
Accessories

Acute Blood Purification – Product Range (excl. pharmaceutical products)

Devices



multiFiltratePRO



multiFiltrate*

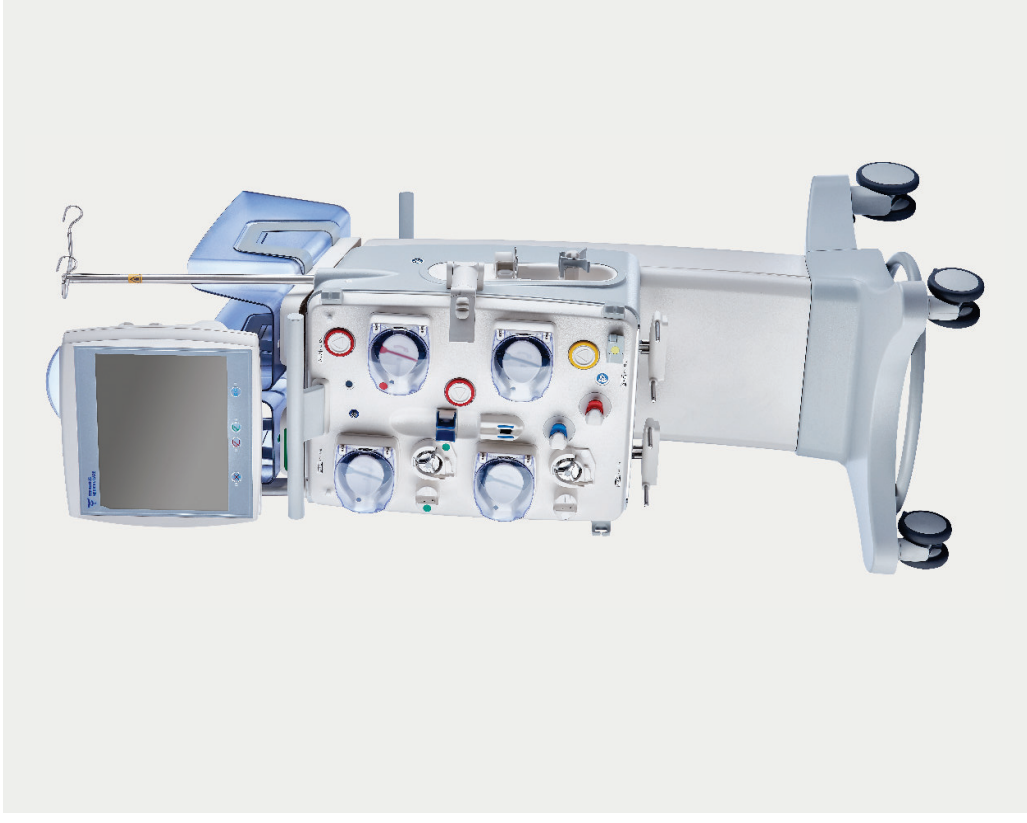
*multiFiltrate is in phase-out. Spare parts for the machine remain available in accordance with local service agreements

multiFiltratePRO Device

The multiFiltratePRO offers a wide range of therapeutic applications mostly in intensive care:

- Continuous Renal Replacement Therapy (CRRT) for patients with Acute Kidney Injury (AKI)
- Ci-Ca therapy option for Regional Citrate Anticoagulation (RCA)
- Therapeutic Plasma Exchange (TPE)
- Combination with adsorbers from other manufacturers to remove harmful substances from the blood
- Low-flow extracorporeal CO₂ removal with multiECCO2R in addition to CRRT

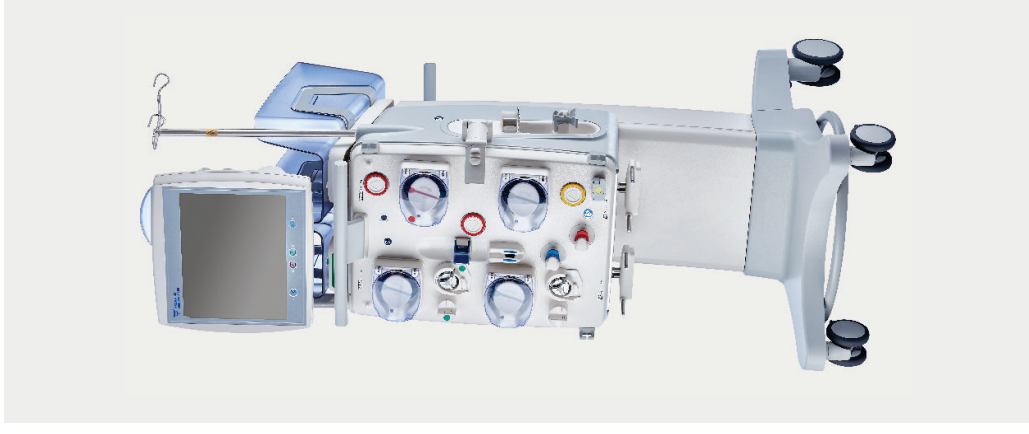
Name	Description	Article number
multiFiltratePRO	Standard version with heparin pump 30/50 ml, Ci-Ca module, two integrated fluid warmers, and PDMS connectivity functionality	M205001



multiFiltratePRO Additional equipment

Additional equipment includes machine accessories that have a specific purpose in connection with the multiFiltratePRO and enable functional or technical add-ons.

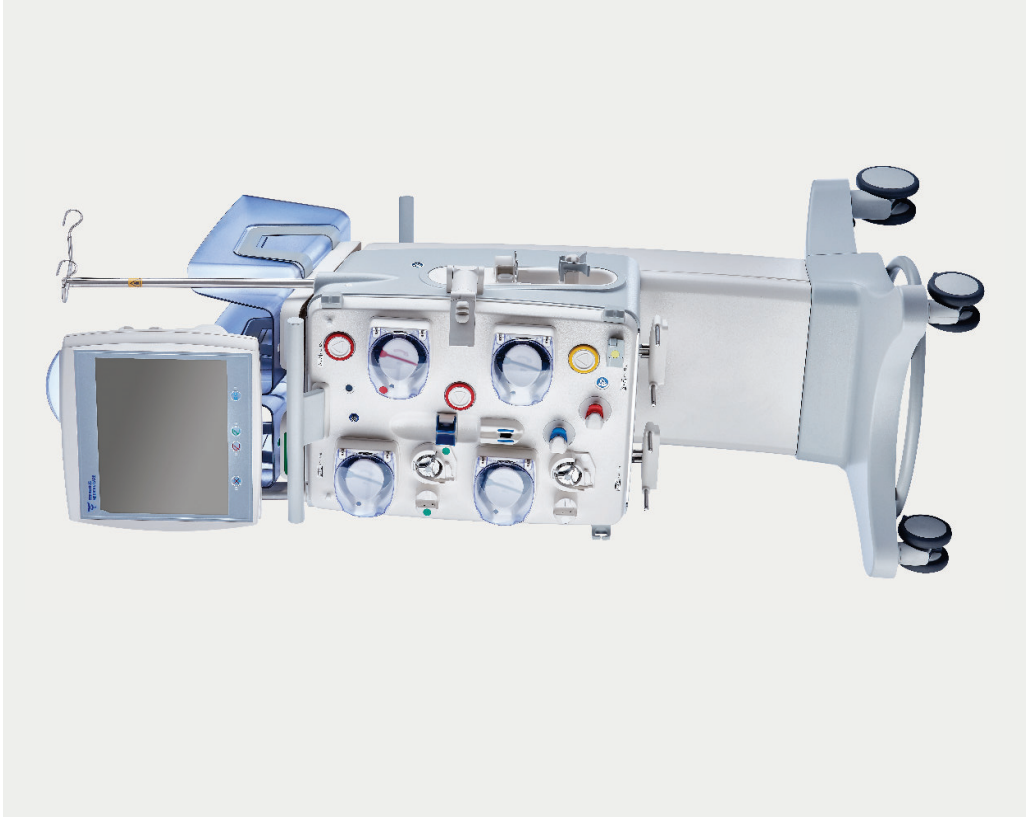
Name	Description	Article number
multiFiltratePRO adsorber holder	Mobile holder to add an adsorber	F00007585
multiECCO2R holder	Mobile holder to add the multiECCO2R gas exchanger	F00014754
Plasma bag holder multiFiltratePRO	Mobile holder to add plasma bags (FFP) or bottles	F40003201
Power cord with safety plug 7 m multiFiltratePRO	Power cord with safety plug CEE 7/7, Length: 7 meters	F40013913
Potential equalization cable 4 mm ² 7.5 m long multiFiltratePRO	Potential equalization cable 4 mm ² , Length: 7.5 meters	F40013914
LAN connection cable 3 m, CAT5	Ethernet cable with shielding CAT5 or better, Length: 3 meters	M280741
Nurse call cable with ferrite 3 m long multiFiltratePRO	Nurse call cable with ferrite, Length: 3 meters	M305101
multiFiltratePRO HL7-connector	Retrofit kit of a built-in gateway to support HL7 v2.6	On request



multiFiltratePRO Options

Specific options are available to enhance the application or technical functionality of multiFiltratePRO and to enable accounting for services.

Name	Description	Article number
multiFiltratePRO Network PEP	Option to activate network connectivity	F00007419
multiFiltratePRO Ci-Ca HD	Option to activate Ci-Ca CVVHD mode	F00007420
multiFiltratePRO Ci-Ca HDF	Option to activate Ci-Ca postCVVHDF mode	F00007421
multiFiltratePRO TPE	Option to activate TPE mode	F00008966



multiFiltrate Device

The multiFiltrate is designed to perform extracorporeal blood purification in the area of intensive care medicine. The fields of application include CRRT, MPS, HP, SCUF, ECCO₂R, and adsorber therapies.

multiFiltrate is in phase-out. Spare parts for the machine remain available in accordance with local service agreements.

Name	Description	Article number
multiFiltrate with integrated Ci-Ca module	Ci-Ca version with premounted Ci-Ca module for citrate anticoagulation, two IV poles, heparin pump, and two integrated fluid warmers	M201271
multiFiltrate	Basis version with heparin pump, IV pole and two integrated fluid warmers	M200701



multiFiltrate Additional equipment

Additional equipment includes machine accessories that have a specific purpose in connection with the multiFiltrate and enable functional or technical add-ons.

Name	Description	Article number
Dialyzer holder multiFiltrate	Mobile holder to add an adsorber or hemofilter	6777921
multiECCO2R holder	Mobile holder to add the multiECCO2R gas exchanger	F00007775
Plasma pole for SUB scales tray	Mobile holder to add plasma bags (FFP) or bottles	M280041
Power cord 5 m with safety plug multiFiltrate	Power cord with safety plug CEE 7/7, Length: 5 meters	F40014760
Potential equalization cable 4 mm ² 4 m long	Potential equalization cable 4 mm ² , Length: 4 meters	M383731
Nurse call cable 3 m long multiFiltrate	Nurse call cable with ferrite, Length: 3 meters	M017721
LAN connection cable 3 m, CAT5 multiFiltrate	Ethernet cable with shielding CAT5 or better, Length: 3 meters	M280741



multiFiltrate Options

Specific options are available to enhance the application or technical functionality of multiFiltrate and to enable accounting for services.

Name	Description	Article number
multiFiltrate Ci-Ca postCVVHDF	Option to activate Ci-Ca postCVVHDF mode	M283551



Filters



Ultraflux AV



Ultraflux EMiC 2



plasmaFlux

Ultraflux AV Filters

Ultraflux capillary hemofilter for CRRT

Ultraflux filters are designed for diffusive and convective removal of uremic toxins and for ultrafiltration in CRRT. Depending on the patient's condition, different surface areas are available, and several treatment modes can be applicable.

The filter can also be purchased in pre-packed kits combining products required for a single treatment.



Name	Surface area	Filling volume	Units per box	Article number
Ultraflux AV 1000 S	1.8 m ²	130 ml	12	5008981
Ultraflux AV 600 S	1.4 m ²	100 ml	12	5007361
Ultraflux AV 400 S	0.7 m ²	52 ml	12	5007341
Ultraflux AV paed	0.2 m ²	18 ml	20	5008231

Ultraflux EMiC 2 Filter

EMiC 2 hemofilter for middle molecule removal

EMiC 2 is a large-pore sized hemofilter used in CVVHD (continuous veno-venous hemodialysis) and SLEDD (sustained low-efficiency daily dialysis). The filter is available in pre-packed kits for CRRT. These kits are designed for the ICU environment, combining products required for a single treatment.



plasmaFlux Filters

plasmaFlux filter for Therapeutic Plasma Exchange

plasmaFlux is used for plasma filtration, i.e., separating plasma from whole blood.

Therapeutic Plasma Exchange can be applied to exchange plasma with the intention to remove harmful substances. Depending on the disease, this may be complemented by drug therapy.

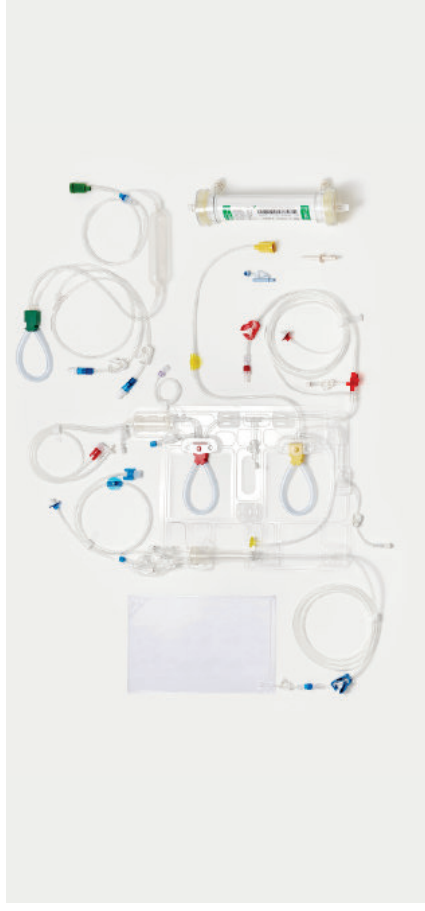


Name	Surface area	Filling volume	Units per box	Article number
plasmaFlux P2 dry	0.6 m ²	67 ml	10	5008031
plasmaFlux P1 dry	0.3 m ²	35 ml	10	5008021

Kits



multiFiltratePRO treatment kits



multiFiltrate treatment kits

multiFiltratePRO treatment kits Ci-Ca

These treatment kits contain tubing systems and filters for the respective treatment with regional citrate anticoagulation.



Name	Filter	Tubing system	Total blood filling volume	Article number
multiFiltratePRO-Kit Ci-Ca HD EMiC2	Ultraflux EMiC 2 (1.8 m ²)	multiFiltratePRO Ci-Ca HD	264 ml	F00000462
multiFiltratePRO-Kit Ci-Ca HD 1000	Ultraflux AV 1000 S (1.8 m ²)	multiFiltratePRO Ci-Ca HD	264 ml	F00000463
multiFiltratePRO-Kit Ci-Ca HD 1000	Ultraflux AV 1000 S (1.8 m ²)	multiFiltratePRO Ci-Ca HDF	264 ml	F00005329

Name	Description	Article number
Adapter Calcium SecuNect/LL	Adapter to connect a Calcium SecuNect 100 mmol/l solution bag to the relevant Luer lock connector for multiFiltratePRO treatment kits Ci-Ca	F00008114
Adapter Citrate SecuNect/HF	Adapter to connect a Citrate SecuNect 136 mmol/l solution bag to the SafeLock connector for multiFiltratePRO treatment kits Ci-Ca	F00008113

multiFiltratePRO treatment kits Ci-Ca with SecuNect

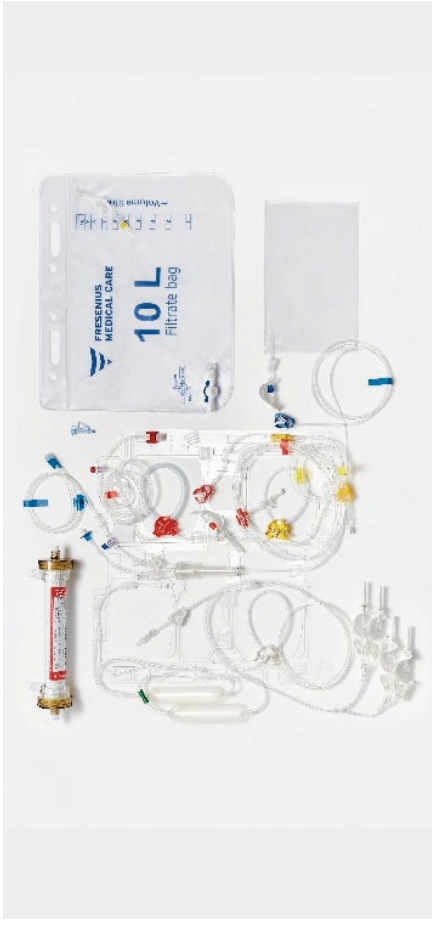
These treatment kits contain tubing systems with SecuNect connectors and filters for the respective treatment with regional citrate anticoagulation.



Name	Filter	Tubing system	Total blood filling volume	Article number
multiFiltratePRO SecuKit Ci-Ca HD EMiC2	Ultraflux EMiC 2 (1.8 m ²)	multiFiltratePRO SecuCas Ci-Ca HD	264 ml	F00008265
multiFiltratePRO SecuKit Ci-Ca HD 1000	Ultraflux AV 1000 S (1.8 m ²)	multiFiltratePRO SecuCas Ci-Ca HD	264 ml	F00008264
multiFiltratePRO SecuKit Ci-Ca HDF 1000	Ultraflux AV 1000 S (1.8 m ²)	multiFiltratePRO SecuCas Ci-Ca HDF	264 ml	F00008266

multiFiltratePRO treatment kits TPE

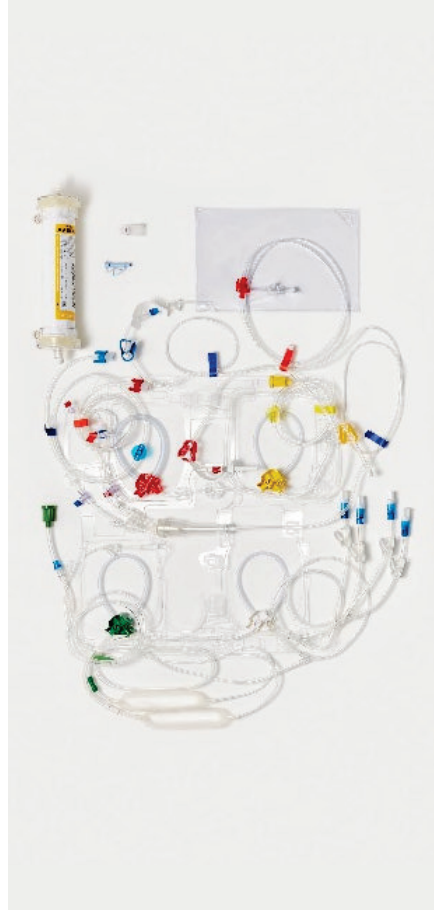
These treatment kits contain tubing systems and filters for Therapeutic Plasma Exchange (TPE).



Name	Filter	Tubing system	Total blood filling volume	Article number
multiFiltratePRO-Kit TPE P2dry	plasmaFlux P2 dry (0.6 m ²)	multiFiltratePRO TPE	183 ml	F00006443
multiFiltratePRO-Kit TPE P1dry	plasmaFlux P1 dry (0.3 m ²)	multiFiltratePRO TPE	151 ml	F00006441

multiFiltratePRO treatment kits Heparin

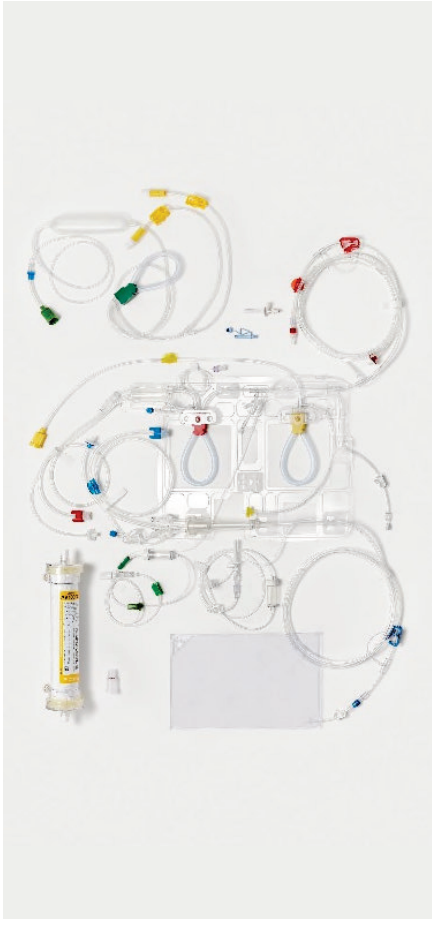
These treatment kits contain tubing systems and filters for the respective treatment with heparin anticoagulation.



Name	Filter	Tubing system	Total blood filling volume	Article number
multiFiltratePRO-Kit HDF 1000	Ultraflux AV 1000 S (1.8 m ²)	multiFiltratePRO HDF	246 ml	F00000461
multiFiltratePRO Kit Paed HD 400	Ultraflux AV 400 S (0.7 m ²)	multiFiltratePRO paed HD	116 ml	F00009082

multiFiltrate treatment kits Ci-Ca

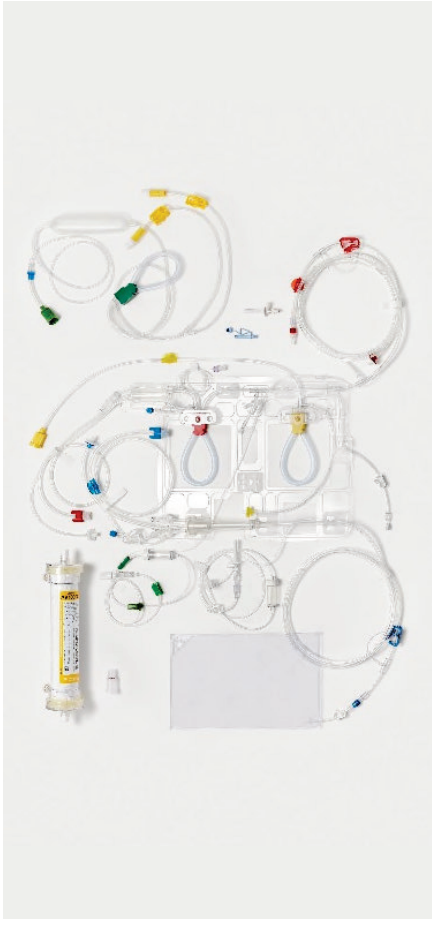
These treatment kits contain tubing systems and filters for the respective treatment with regional citrate anticoagulation.



Name	Filter	Tubing system	Total blood filling volume	Article number
multiFiltrate Kit Ci-Ca CVVHD EMiC 2	Ultraflux EMiC 2 (1.8 m ²)	multiFiltrate Ci-Ca Cassette, Ci-Ca Dialysate System multiFiltrate	276 ml	F00001172
multiFiltrate Kit Ci-Ca CVVHD 1000	Ultraflux AV 1000 S (1.8 m ²)	multiFiltrate Ci-Ca Cassette, Ci-Ca Dialysate System multiFiltrate	276 ml	5039011
multiFiltrate Kit Ci-Ca postCVVHDF 1000	Ultraflux AV 1000 S (1.8 m ²)	multiFiltrate Ci-Ca Cassette, Ci-Ca Dialysate System multiFiltrate, Substitute System multiFiltrate	276 ml	F00002290

multiFiltrate treatment kits Ci-Ca

These treatment kits contain tubing systems and filters for the respective treatment with regional citrate anticoagulation.

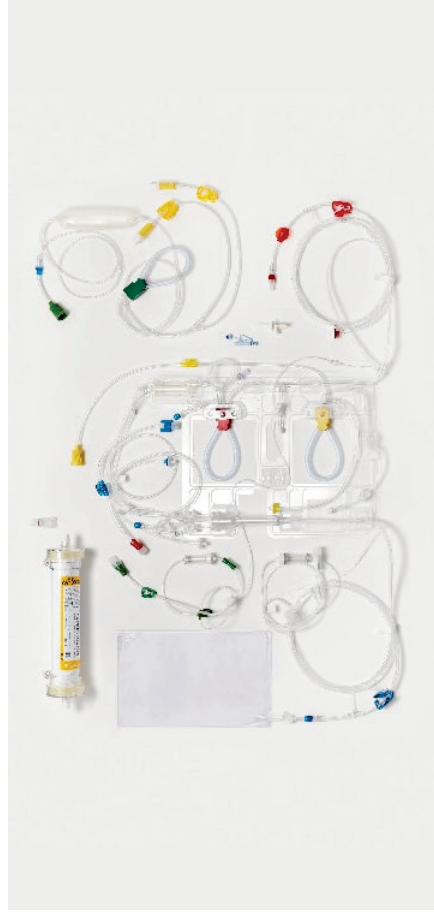


Accessories

Name	Description	Article number
Adapter Calcium SecuNect/LL	Adapter to connect a Calcium SecuNect 100 mmol/l solution bag to the relevant Luer lock connector on the calcium line for multiFiltrate and multiFiltratePRO	F00008114
Adapter Citrate SecuNect/HF	Adapter to connect a Citrate SecuNect 136 mmol/l solution bag to the HF connector on the citrate line for multiFiltrate and multiFiltratePRO	F00008113

multiFiltrate treatment kits Ci-Ca with SecuNect

These treatment kits contain tubing systems with SecuNect connectors and filters for the respective treatment with regional citrate anticoagulation.



Name	Filter	Tubing system	Total blood filling volume	Article number
multiFiltrate SecuKit Ci-Ca HD EMiC 2	Ultraflux EMiC 2 (1.8 m ²)	multiFiltrate SecuCas Ci-Ca, Ci-Ca Dialysate System multiFiltrate	276 ml	F00008261
multiFiltrate SecuKit Ci-Ca HD 1000	Ultraflux AV 1000 S (1.8 m ²)	multiFiltrate SecuCas Ci-Ca, Ci-Ca Dialysate System multiFiltrate	276 ml	F00008260
multiFiltrate SecuKit Ci-Ca HDF 1000	Ultraflux AV 1000 S (1.8 m ²)	multiFiltrate SecuCas Ci-Ca, Ci-Ca Dialysate System multiFiltrate, Substitute System multiFiltrate	276 ml	F00008262

multiFiltrate treatment kits Heparin

These treatment kits contain tubing systems and filters for the respective treatment with heparin anticoagulation.



Name	Filter	Surface area	Tubing system	Total blood filling volume	Article number
multiFiltrate Kit 9 CVVH 1000	Ultraflux AV 1000 S	1.8 m ²	multiFiltrate Cassette, Dialysate System multiFiltrate	277 ml	5038791
multiFiltrate Kit 7 HV-CVVH 1000	Ultraflux AV 1000 S	1.8 m ²	multiFiltrate Cassette, HV-CVVH Substitute System multiFiltrate	277 ml	5038181

multiFiltrate treatment kits Heparin

These treatment kits contain tubing systems and filters for the respective treatment with heparin anticoagulation.



Name	Filter	Surface area	Tubing system	Total blood filling volume	Article number
multiFiltrate Kit CVVHD EMiC 2	Ultraflux EMiC 2	1.8 m ²	multiFiltrate Cassette, Dialysate System multiFiltrate	277 ml	F00001173
multiFiltrate Kit 3 CVVHD 600	Ultraflux AV 600 S	1.4 m ²	multiFiltrate Cassette, Dialysate System multiFiltrate	247 ml	5038921
multiFiltrate Kit Paed CRRT / SCUF	Ultraflux AV paed	0.2 m ²	multiFiltrate paed CRRT/SCUF Set	72 ml	5039051

multiFiltrate treatment kits MPS

These treatment kits contain tubing systems and filters for Membrane Plasma Separation (MPS).



Name	Filter	Surface area	Tubing system	Further accessories	Total blood filling volume	Article number
multiFiltrate Kit 16 MPS P2dry	plasmaFlux P2 dry	0.6 m ²	multiFiltrate Cassette, MPS Substitute System multiFiltrate	multiEffluent Bag 10 l	214 ml	F00000215

Fluids



Ci-Ca Dialysate

Ci-Ca Dialysate K2 Solutions

Ci-Ca Dialysate K2

100% bicarbonate-buffered dialysis solution with 2 mmol/l potassium for citrate anticoagulation-based CRRT. PVC-, Latex- and DEHP-free. In-use stability 48 h. Yellow HF connector for color-coded guidance.

Shelf life: 24 months



Name	Na ⁺	K ⁺	Ca ²⁺	Mg ²⁺	Cl ⁻	HCO ³⁻	Glucose	Language	Packaging	Article number
Ci-Ca Dialysate K2 5000 ml	133 mmol/l	2 mmol/l	0 mmol/l	0.75 mmol/l	116.5 mmol/l	20 mmol/l	1 g/l	DE / NL / F / I / ES / PT / CS / HR	2 x 5 l bags/box, 104 bags/pallet	F00009639

Ci-Ca Dialysate K4 Solutions

Ci-Ca Dialysate K4

100% bicarbonate-buffered dialysis solution with 4 mmol/l potassium for citrate anticoagulation-based CRRT. PVC-, Latex- and DEHP-free. In-use stability 48 h. Yellow HF connector for color-coded guidance.

Shelf life: 24 months



Name	Na ⁺	K ⁺	Ca ²⁺	Mg ²⁺	Cl ⁻	HCO ³⁻	Glucose	Language	Packaging	Article number
Ci-Ca Dialysate K4 5000 ml	133 mmol/l	4 mmol/l	0 mmol/l	0.75 mmol/l	118.5 mmol/l	20 mmol/l	1 g/l	DE / NL / F / I / ES / PT / CS / HR	2 x 5 l bags/box, 104 bags/pallet	F00009640

Ci-Ca Dialysate K2 Plus Solutions

Ci-Ca Dialysate K2 Plus

Ci-Ca Dialysate Plus contains a phosphate concentration of 1.25 mmol/l.

Yellow HF connector for color-coded guidance.

100% bicarbonate-buffered dialysis solution with 2 mmol/l potassium for citrate anticoagulation-based CRRT. PVC-, Latex- and DEHP-free.

In-use stability 48 h.

Shelf life: 24 months



Name	Na ⁺	K ⁺	Ca ²⁺	Mg ²⁺	Cl ⁻	HCO ³⁻	H ₂ PO ₄ ⁻	Glucose	Language	Packaging	Art. no.
Ci-Ca Dialysate K2 Plus 5000 ml	133 mmol/l	2 mmol/l	0 mmol/l	1.00 mmol/l	115.75 mmol/l	20 mmol/l	1.25 mmol/l	1 g/l	DE / NL / F / I / ES / PT / CS / HR	2 x 5 l bags/box, 104 bags/pallet	F00009641

Ci-Ca Dialysate K4 Plus Solutions

Ci-Ca Dialysate K4 Plus

Ci-Ca Dialysate Plus contains a phosphate concentration of 1.25 mmol/l.

Yellow HF connector for color-coded guidance.

100% bicarbonate-buffered dialysis solution with 4 mmol/l potassium for citrate anticoagulation-based CRRT. PVC-, Latex- and DEHP-free.

In-use stability 48 h.

Shelf life: 24 months



Name	Na ⁺	K ⁺	Ca ²⁺	Mg ²⁺	Cl ⁻	HCO ³⁻	H ₂ PO ₄ ⁻	Glucose	Language	Packaging	Art. no.
Ci-Ca Dialysate K4 Plus 5000 ml	133 mmol/l	4 mmol/l	0 mmol/l	1.00 mmol/l	117.75 mmol/l	20 mmol/l	1.25 mmol/l	1 g/l	DE / NL / F / I / ES / PT / CS / HR	2 x 5 l bags/box, 104 bags/pallet	F00009642

Blood-gas exchanger



multiECCO2R

multiECCO2R Blood-gas exchanger and holder

multiECCO2R enables the delivery of low-flow ECCO₂R in combination with CRRT on a single therapy system using one vascular access.

EUROSETS S.r.l., Italy is the legal manufacturer of the multiECCO2R and Fresenius Medical Care Deutschland GmbH is a distributor in selected countries.



Name	Description	Article number
multiECCO2R	Blood-gas exchanger EU5060	F0008943
multiFiltratePRO multiECCO2R holder	Holder for multiFiltratePRO	F00014754
multiFiltrate multiECCO2R holder	Holder for multiFiltrate	F00007775

CytoSorb Adsorber and kit

Treatment kits for CytoSorb 300 mL

CytoSorb is an adsorber which can be used in hemoperfusion and CVVHD mode on multi**Filtrate** or CVVHD mode on multi**Filtrate**PRO.

CytoSorbents Corporation, USA is the legal manufacturer of CytoSorb and Fresenius Medical Care Deutschland GmbH is a distributor in selected countries.



Therapy system	Type/name	Adsorber	Tubing system	Further accessories	Added blood filling volume	Article number
multi Filtrate PRO, multi Filtrate	CytoSorb 300 ml Device	CytoSorb 300 mL	Not included	Not included	150 ml	TMD000171
multi Filtrate PRO, multi Filtrate	Adsorber Kit Cyto for CVVHD	CytoSorb 300 mL	Not included	Adsorber Rinsing System, Rinsing bag 10 l	150 ml	F00007129
multi Filtrate PRO, multi Filtrate	Adsorber Rinsing Kit Cyto	Not included	Not included	Adsorber Rinsing System, Rinsing bag 10 l	Not applicable	F00007336

Accessories



Accessories



Devices

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Blood-gas exchanger

Adsorber

Accessories

Accessories

Accessories for extracorporeal blood treatments



Name	Description	Minimal order quantity	Article number
multiEffluent Bag 10 L	Filtrate collection bag with male Luer lock and drain with stop cock	40	5029011
multiEffluent Bag 10 L single-use	Filtrate collection bag with male Luer lock	40	5029031
Drainage Bag 2lt	Sterile waste bag with female Luer lock	100	5015091
Rinsing bag 10 L	Sterile waste bag with female Luer lock and drain with stop cock	40	F00005474
Scissor clamp (5 pieces)	To clamp lines temporarily	1 (à 5)	2845241
Adapter Hansen male / Luer-Lock male	Pre-Post CVVH Adapter: To set-up pre-post CVVH with multiFiltratePRO	30	5016881

Accessories

Accessories for extracorporeal blood treatments



Name	Description	Minimal order quantity	Article number
Vented spike	Vented spike with female Luer lock	12	F00007583
Spike	Spike with female Luer lock	100	F00007582
Recirculation connector	To connect access and return lines for recirculation, with eyelet	100	F00007581
Transducer Protector	Additional filter for pressure monitor line	100	F00007580
Pressure line for MTS	Pressure monitor line with filter for replacement, length 30 cm, blue	100	5014631
Pressure measurement line 60 cm	Pressure monitor line with filter for replacement, length 60 cm, white	200	5019151

Accessories

Accessories for extracorporeal blood treatments



Name	Description	Minimal order quantity	Article number
HF Female – Luer-Lock-Male	Adapter to connect solution bags with Luer lock to dialysate/substitute tubing system	100	5016891
HF Female – Spike Adapter	To connect solution bags with septum to dialysate/substitute tubing system	100	5016351
Adapter HF-Male Luer-Lock-Male	To connect solution bags with HF female to tubing systems with Luer lock male	100	5015451



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