



**FRESENIUS
MEDICAL CARE**

RENAL PRODUCTS CATALOG

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Contact Us

Customer Service/Order Entry: Disposables, Parts, and PD Equipment & Solutions

Address:

101 Waukegan Road, Suite 100
Lake Bluff, IL 60044

Telephone: 1-800-323-5188

Disposables Fax: 1-781-372-9559

Spare Parts Fax: 1-781-419-8951

**When ordering, please include
the following information:**

- Account Number
- Hospital or Center Name
- Complete Delivery Address
- Requested Delivery Date
- Purchase Order Number
- Contact Name
- Contact Telephone Number

Accounts Receivable Inquiries:

Fax: 1-781-699-9065

(Includes invoice and statement inquiries)

Customer Service/Order Entry: Hemodialysis Equipment

Address:

920 Winter Street
Waltham, MA 02451

Fax: 1-781-699-9735

Email Address: MachineFaxOrders@fmc-na.com

**When ordering, please include
the following information:**

- Account Number
- Hospital or Center Name
- Complete Delivery Address
- Requested Delivery Date
- Purchase Order Number
- Purchase, Lease, or Rental
- New or Refurbished
- Contact Name and Contact Telephone Number

Credit Inquiries:

Fax: 1-781-699-9087

Customer Service Repairs, Technical Support and Training Inquiries:

Address:

4040 Nelson Avenue
Concord, CA 94520

Telephone: 1-800-227-2572

success@home™ Clinical Resource Line:
1-877-954-3340

**When ordering, please include
the following information:**

- Account Number
- Hospital or Center Name
- Complete Delivery Address
- Requested Delivery Date
- Purchase Order Number
- Contact Name and Contact Telephone Number

Emergency Customer Service: Disposable Parts

Telephone: 1-800-323-5188

Note: For a complete description of billing, ordering, delivery, and returned goods, policies, and warranties, see full Directory of Services information at www.fmcna.com.

Hemodialysis (HD) Equipment

Fresenius Medical Care is the leading provider of hemodialysis equipment with an installed base of over 120,000 machines in the U.S., more than all other dialysis brands combined. Physicians, clinicians, and administrators have made Fresenius Medical Care the leading hemodialysis equipment provider in the U.S.– and the 2008® series machine is their preferred choice. The 2008T BlueStar machine is indicated for acute and chronic hemodialysis therapy. It is our latest generation HD machine in a decades-long commitment to the treatment of end stage kidney disease – providing advanced technology on a proven platform.

- ▶ 2008T™ BlueStar Hemodialysis Machine
- ▶ 2008T BlueStar Hemodialysis Machine Accessories/Options



Hemodialysis Equipment

2008T BlueStar Hemodialysis Machine

Part Number	New Machine Part Description
191124	2008T BlueStar with CDX™
191126	2008T BlueStar with CDX and bibag
191128	2008T BlueStar without CDX
191130	2008T BlueStar without CDX, with bibag

2008T BlueStar Hemodialysis Machine Accessories/Options

Part Number	Description	Order Required
191356	2008T BlueStar Standard Kit	One per clinic
191138	2008T BlueStar Premium Kit	One per machine
191076	Sustained Low-Efficiency Dialysis (SLED) Kit	One per machine



Fluid Management

Accurate, real-time data from Crit-Line technology allows the clinician insight as to how a patient is tolerating dialysis throughout a treatment. Appropriate adjustment of ultrafiltration rates and maximizing the amount of fluid removal, while minimizing the potential for hypovolemic and intradialytic symptoms, is critical to a more effective dialysis treatment.

- ▶ CLiC™ & Crit-Line® IV Accessories
- ▶ CLiC Blood Chamber
- ▶ CombiSet SMARTECH®



Fluid Management

CLiC & Crit-Line IV Accessories

Part Number	Description	Quantity	For Use with
CL10041001	Crit-Line Clip (CLiC) - USB	each	Crit-Line IV & CLiC
CL10051001	Crit-Line IV Monitor	each	Crit-Line IV
CL10054004	Crit-Line IV Pole Mount	each	Crit-Line IV
CL80050002	Crit-Line IV User Guide	each	Crit-Line IV
CL10029504	CLM Printer Software	each	Crit-Line IV
CL44300012	Power Supply	each	Crit-Line IV
CL90000035	Crit-Line US AC Adapter Cord	each	Crit-Line IV

CLiC Blood Chamber

Part Number	Description	Quantity	For Use with
CL10041021	CLiC Blood Chamber	36 each / box	Crit-Line IV & CLiC

CombiSet SMARTECH

Available with and without a heparin line.

Part Number	Description	Quantity	For Use with
03-2722-9C	CombiSet SMARTECH with heparin line	24 sets/case	CLiC & Crit-Line IV
03-2742-9C	CombiSet SMARTECH without heparin line	24 sets/case	CLiC & Crit-Line IV



Dialyzers

Fresenius Medical Care has been a leading manufacturer of dialyzers for over 20 years by offering a wide-ranging dialyzer portfolio, including the most prescribed dialyzer brand, Optiflux. Our variety of available dialyzers provides the clinician with options to individualize patient care.

Whether you require high flux for removal of small and middle molecule solutes; low flux for diffusive small molecule removal; or low volume to minimize extracorporeal circuit volume, we offer single-use dialyzers to meet the clinical needs of a wide range of patient types.

- ▶ High Flux
- ▶ Low Flux
- ▶ Low Volume
- ▶ Sterilization Options



Dialyzers

High Flux

The proven technology of Advanced Fresenius Polysulfone® quality, biocompatibility, and performance provide the foundation upon which Optiflux® dialyzer technology is built. Our asymmetric membrane structure provides a unique barrier that adsorbs endotoxins. Other advances in fiber and dialyzer technology enable increased dialysate turbulence to improve small solute removal and steeper sieving curves to enhance small and middle molecule clearance without increasing albumin loss compared to low-flux dialyzers.



Part Number	Dialyzer	Unit	Qty/Case	Surface Area (m ²)	Prime Volume (mL)	Kuf (in vitro bovine 32%)	Sterilant	KoA Urea (at QB300/QD500 mL/min)	Clearance QB 300, QD 500 mL/min			
									Urea	Creatinine	Phosphate	Vitamin B ₁₂
0500316E	Optiflux F160NRe	Case	12	1.5	87	61	E beam	1167	271	242	241	153
0500318E	Optiflux F180NRe	Case	12	1.7	102	76	E beam	1321	277	253	253	169
0500318N	Optiflux F180NR	Case	12	1.7	97	72	EtO	1336	276	247	245	162
0500320E	Optiflux F200NRe	Case	12	1.9	113	74	E beam	1336	276	259	254	177
0500325E	Optiflux F250NRe	Case	12	2.5	142	111	E beam	1714	287	273	274	205

Low Flux

Low flux dialyzers allow patients with a smaller surface area to achieve desired Kt/V adequacy goals with the same reliability in performance and biocompatibility as our high flux dialyzers. Additionally, our variety of low flux dialyzers provides the clinician with options to individualize patient care.



Part Number	Dialyzer	Unit	Qty/Case	Surface Area (m ²)	Prime Volume (mL)	Kuf (in vitro bovine 32%)	Sterilant	KoA Urea (at QB300/QD500 mL/min)	Clearance QB 200, QD 500 mL/min			
									Urea	Creatinine	Phosphate	Vitamin B ₁₂
0520165A	Hemoflow™ F3	Case	15	0.3	26	1.6	EtO	203	117	87	40	20
0520161A	Hemoflow F4	Case	15	0.7	45	2.8	EtO	373	155	128	52	26

Data available upon request

For more information, including Indications, Safety, and Warnings, visit www.fmcna.com/products/indications--safety-and-warnings/

To place an order, call 1-800-323-5188

Dialyzers



Low Volume

Fresenius Medical Care's low volume dialyzers are viable options for smaller patients and those with a low blood volume. Using a low volume dialyzer in conjunction with a low volume bloodline may help to minimize the amount of blood outside the patient's body during therapy.

Part Number	Dialyzer	Unit	Qty/ Case	Surface Area (m ²)	Prime Volume (mL)	Kuf (in vitro bovine 32%)	Sterilant	KoA Urea (at QB200/QD500 mL/min)	Clearance QB 200, QD 500 mL/min			
									Urea	Creatinine	Phosphate	Vitamin B ₁₂
0520165A	Hemoflow F3	Case	15	0.3	26	1.6	EtO	203	117	87	40	20
0520161A	Hemoflow F4	Case	15	0.7	45	2.8	EtO	373	155	128	52	26



Sterilization Options

Fresenius Medical Care also offers dialyzer options with ethylene oxide (EtO) sterilization.

Part Number	Dialyzer	Unit	Qty/ Case	Surface Area (m ²)	Prime Volume (mL)	Kuf (in vitro bovine 32%)	Sterilant	KoA Urea (at QB200/QD500 mL/min)	Clearance QB 200, QD 500 mL/min			
									Urea	Creatinine	Phosphate	Vitamin B ₁₂
0520165A	Hemoflow F3	Case	15	0.3	26	1.6	EtO	203	117	87	40	20
0520161A	Hemoflow F4	Case	15	0.7	45	2.8	EtO	373	155	128	52	26
									Clearance QB 300, QD 500 mL/min			
								KoA Urea (at QB300/QD500 mL/min)	Urea	Creatinine	Phosphate	Vitamin B ₁₂
0500318N	Optiflux F180NR	Case	12	1.7	97	72	EtO	1336	278	247	245	162

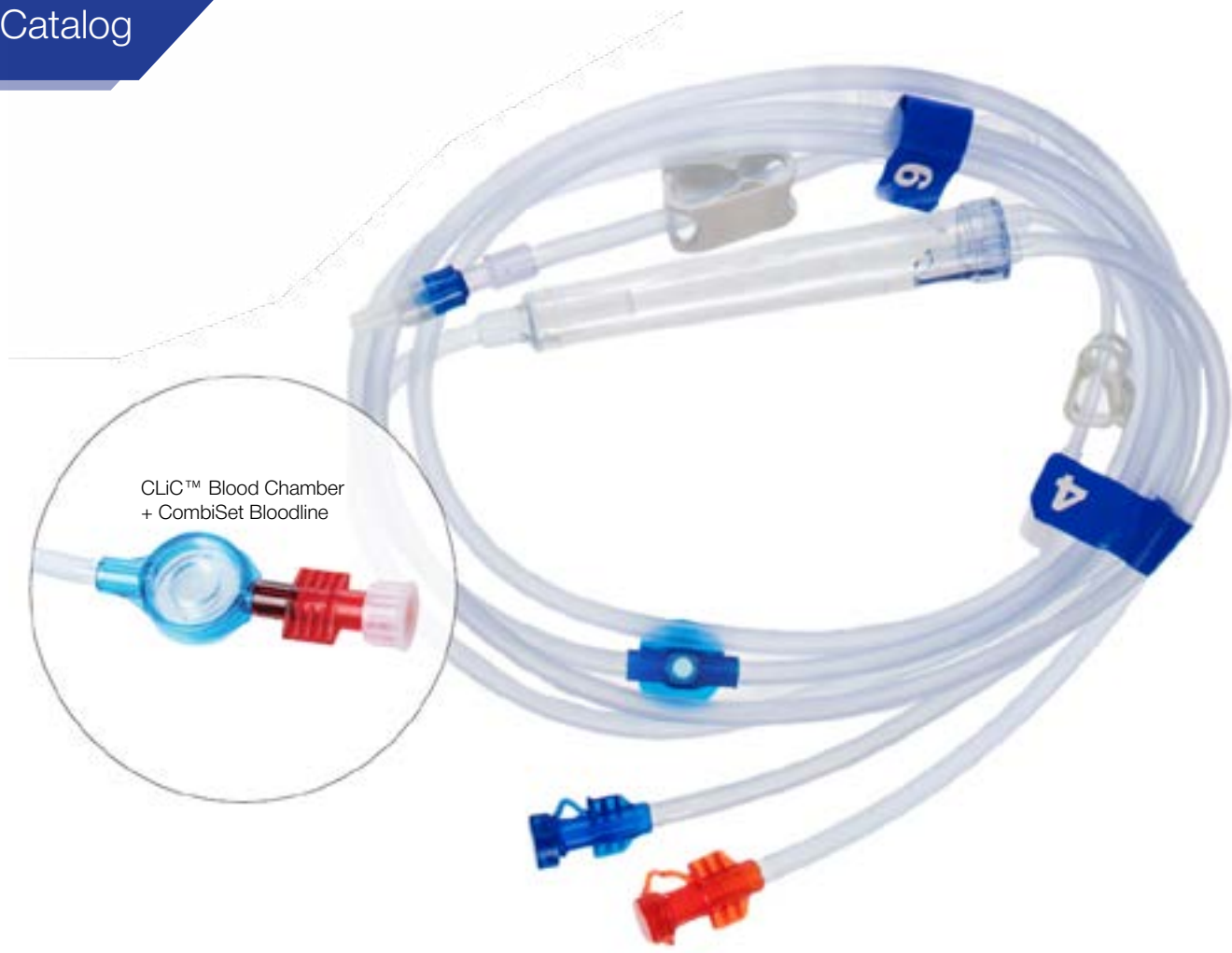
Bloodlines

True to its name, our CombiSet True Flow Series hemodialysis bloodlines are designed to deliver accurate blood flow from the beginning to the end of the hemodialysis treatment. CombiSet True Flow bloodlines are made with specially blended polymers and advanced extrusion technology to withstand the stresses of hemodialysis treatment, while delivering blood to the dialyzer at an accurate and consistent rate. Designed to perform optimally with our 2008 series machines, our bloodlines are used during treatments for a wide range of patient and clinical needs.



- ▶ Specialty CombiSet—
CombiSet SMARTECH®
Integrated Bloodline
- ▶ 2600 Series CombiSet®
- ▶ 2700 Series CombiSet®
- ▶ Specialty CombiSet
Blood Volume Monitoring
- ▶ Specialty CombiSet
Home Hemodialysis
- ▶ Specialty CombiSet
Single Needle
- ▶ Specialty CombiSet®
Low Volume
- ▶ Specialty CombiSet Additional
Venous Injection Site
- ▶ Bloodline Ancillaries

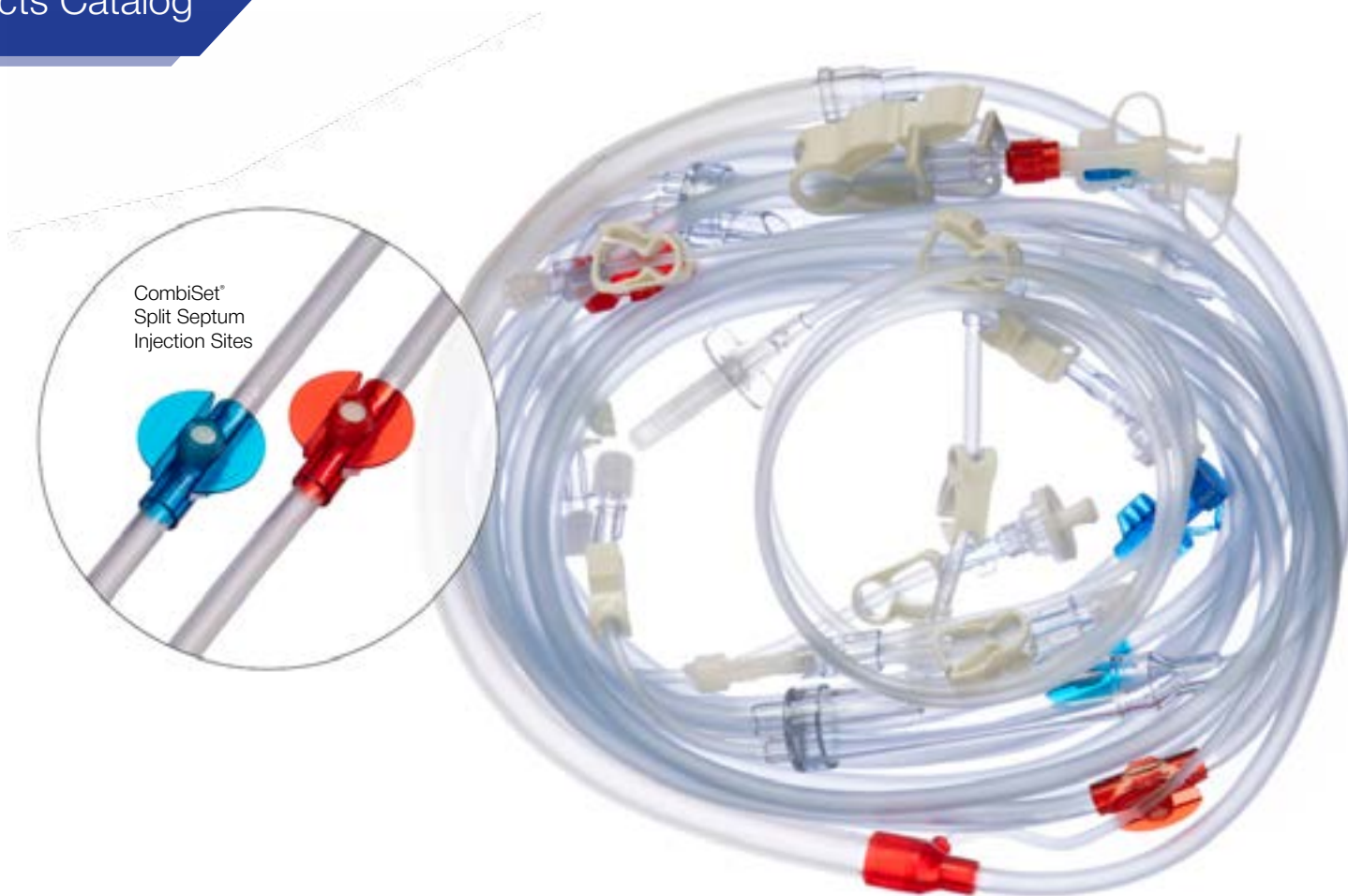
Bloodlines



Specialty CombiSet—CombiSet SMARTeCH Integrated Bloodline

Part Number	Description	Unit	Sets Per Case	Pump Segment		Priming Volume	
				Width (mm)	Length (in)	Arterial (cc)	Venous (cc)
03-2722-9C	CombiSet SMARTeCH with heparin line	Case	24	8	13.5	94	62
03-2742-9C	CombiSet SMARTeCH without heparin line	Case	24	8	13.5	94	62

Bloodlines

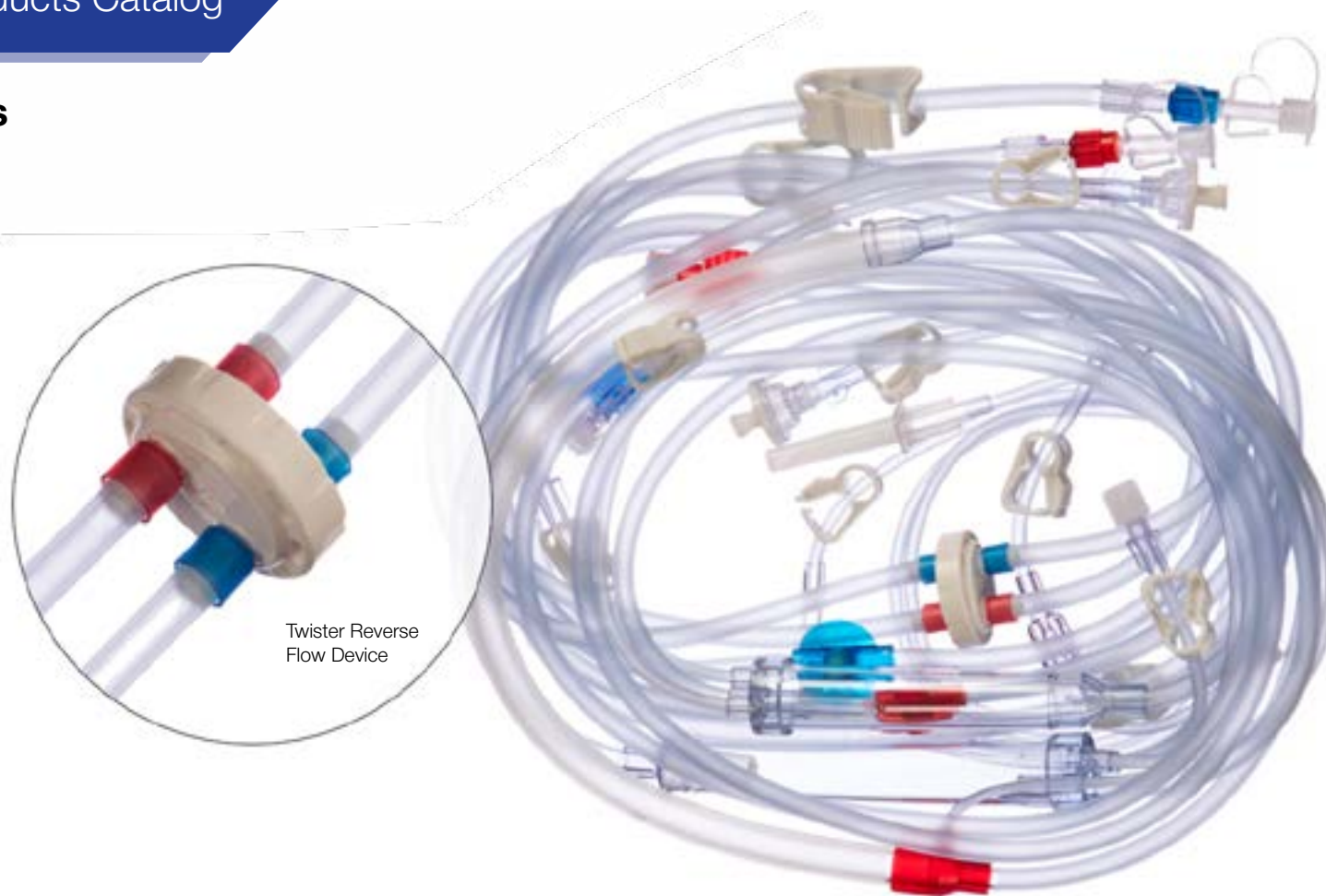


2600 Series CombiSet

Includes split-septum injection site, viral-retentive transducer protectors, and stand-alone priming set with needleless access port.

Part Number	Description	Unit	Sets Per Case	Pump Segment	
				Width (mm)	Length (in)
03-2621-5	2008 Series 8 mm Post-pump Bloodline	Case	24	8	14
03-2622-3	2008 Series 8 mm Pre-pump Bloodline	Case	24	8	14
03-2630-6	2008 Series 6.35 mm Pre-pump Bloodline	Case	24	6.35	14
03-2631-4	2008 Series 6.35 mm Post-pump Bloodline	Case	24	6.35	14

Bloodlines



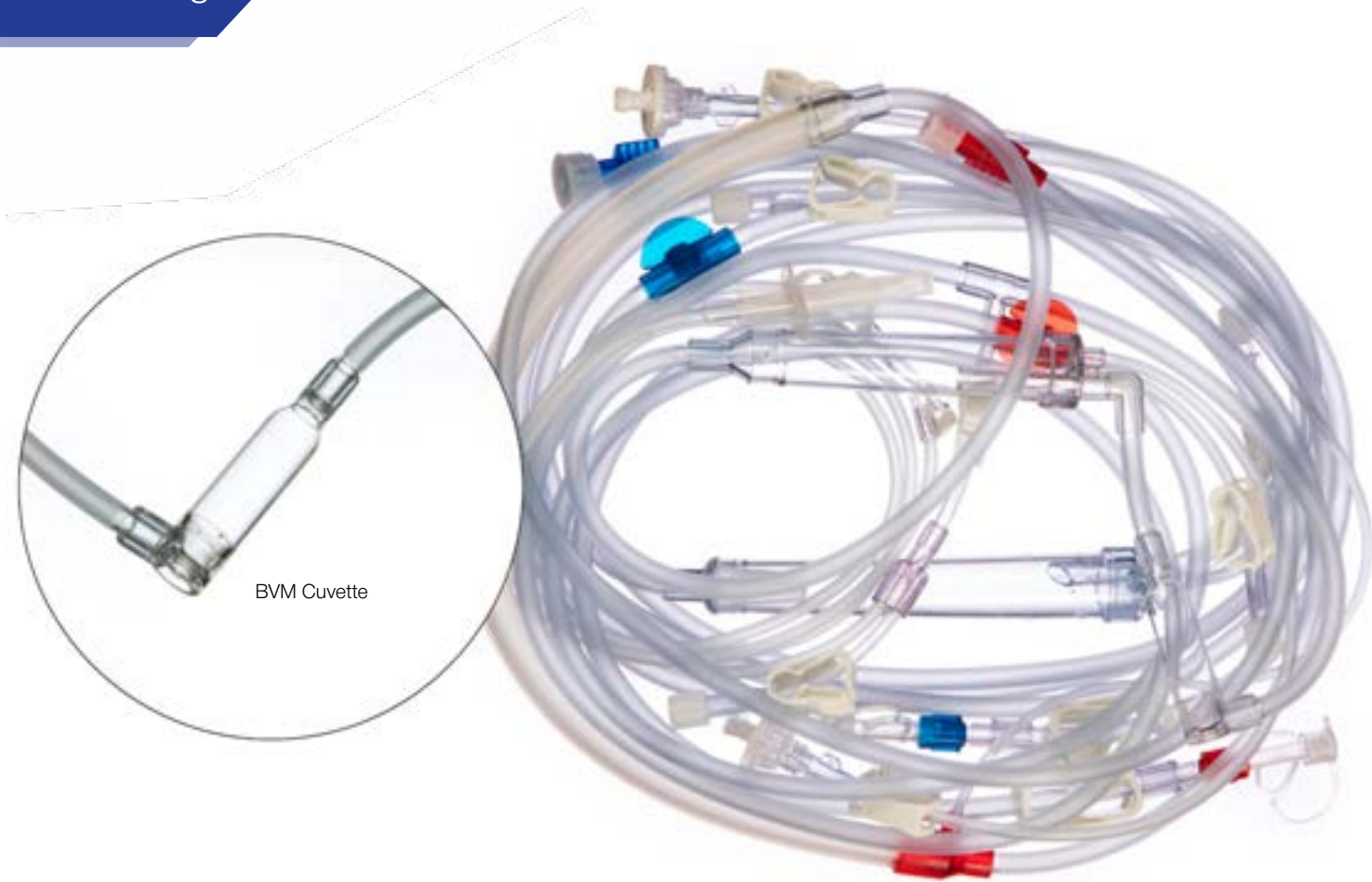
Twister Reverse Flow Device

2700 Series CombiSet

Includes split-septum injection site, viral-retentive transducer protectors and bonded priming set with needleless access port and Y-injection site bonded to arterial line.

Part Number	Description	Unit	Sets Per Case	Pump Segment	
				Width (mm)	Length (in)
03-2722-9	2008 Series 8 mm Pre-pump Bloodline	Case	24	8	14
03-2742-9	2008 Series 8 mm Pre-pump Bloodline, No Heparin Line	Case	24	8	14
03-2794-0	2008 Series 8 mm Pre-pump Bloodline with Twister® Reverse Flow Device	Case	24	8	14

Bloodlines



BVM Cuvette

Specialty CombiSet—Blood Volume Monitoring

Part Number	Description	Unit	Sets Per Case	Pump Segment	
				Width (mm)	Length (in)
03-2795-7	2008 Series 8 mm BVM Bloodline	Case	24	8	14

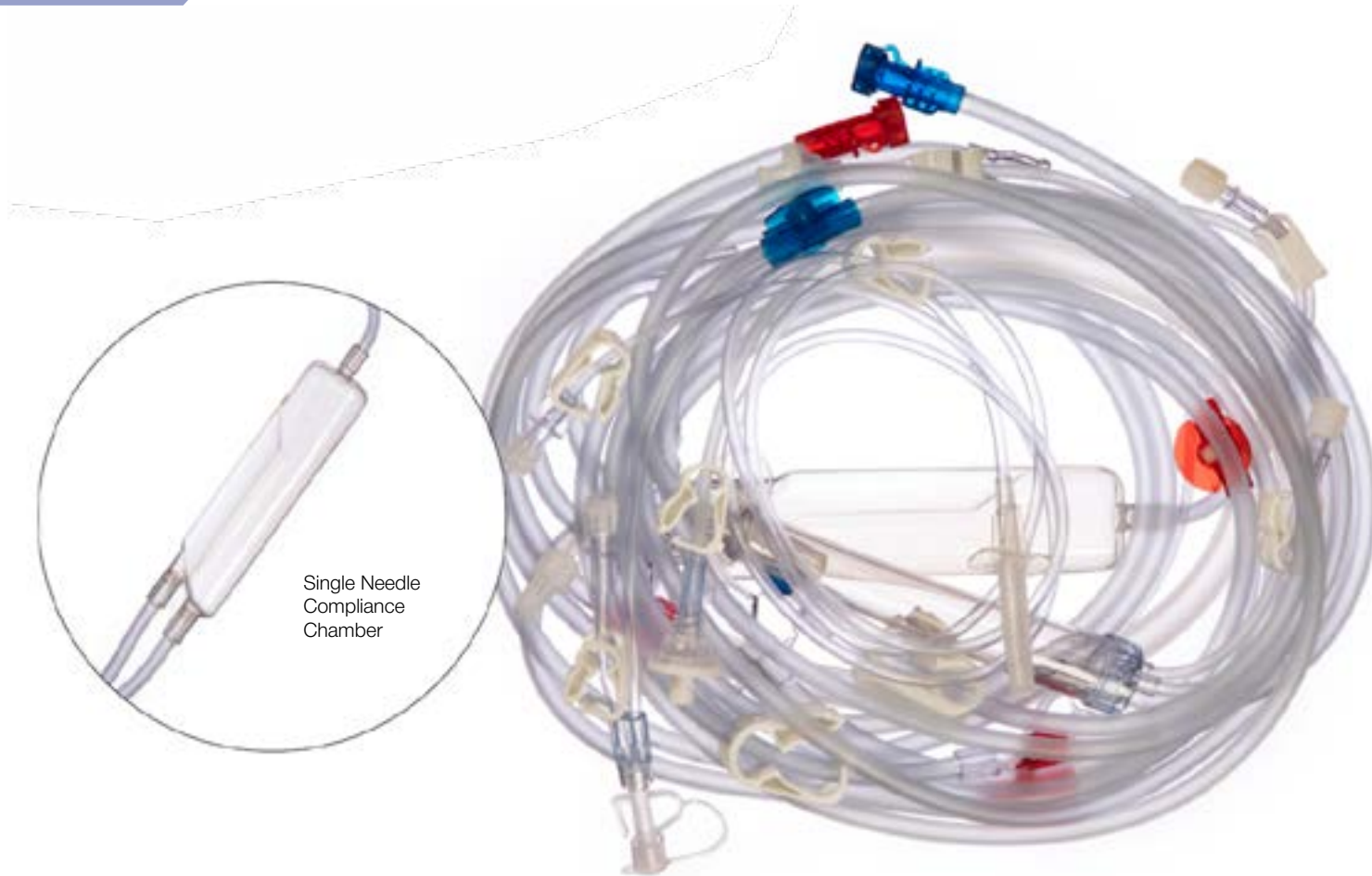
Bloodlines



Specialty CombiSet—Home Hemodialysis (with Prime Bag)

Part Number	Description	Unit	Sets Per Case	Pump Segment	
				Width (mm)	Length (in)
03-2932-6	2008 Series 8 mm Home Hemodialysis with Prime Bag	Case	24	8	14
03-2962-3	2008 Series 8 mm Home Hemodialysis with Prime Bag	Case	24	8	14

Bloodlines

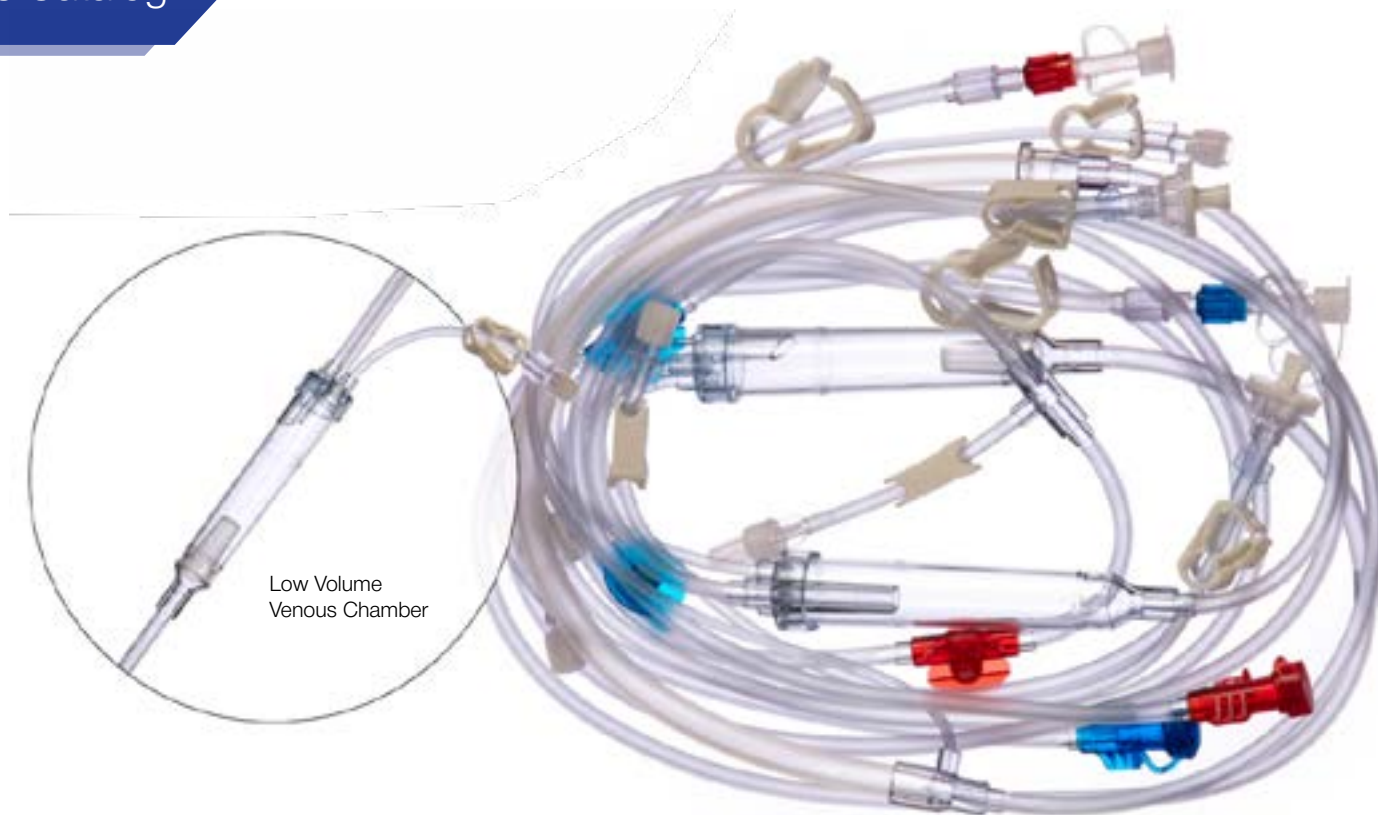


Single Needle Compliance Chamber

Specialty CombiSet—Single Needle

Part Number	Description	Unit	Sets Per Case	Pump Segment	
				Width (mm)	Length (in)
03-2696-7	2008 Series 8 mm Single Needle Bloodline	Case	20	8	14

Bloodlines



Specialty CombiSet—Low Volume

Part Number	Description	Unit	Sets Per Case	Pump Segment	
				Width (mm)	Length (in)
03-2692-6	2008 Series 6.35 mm Low Volume Pre-pump Bloodline	Case	12	6.35	14

Specialty CombiSet—Additional Venous Injection Site

Part Number	Description	Unit	Sets Per Case	Pump Segment	
				Width (mm)	Length (in)
03-2922-7	2008 Series 8 mm Pre-pump Bloodline with Second Venous Injection Site. Longer Tubing Length Between Drip Chamber and Pump Segment	Case	24	8	14

Bloodlines Ancillaries



Transducer Protectors



HemaClip™ Bloodline Connector

Bloodline Ancillaries

Part Number	Description
04-9006-5	Priming Set for Arterial Bloodlines, with Needleless Access Port. 100 Per Case, EtO Sterilized
04-9100-1	HemaClip Bloodline Connector, for Use Only with CombiSet® Bloodlines. 400 Per Case, Non-Sterile
04-9500-2	Transducer Protectors, Viral-retentive Membranes. Bulk Pack, 100 Per Bag, EtO Sterilized
04-9502-8	Recirculation Connector, Individually Wrapped. 200 Per Case, Sterile
35-8181-6	Recirculation Connector, Individually Wrapped. 100 Per Bag, Sterile
M8-5007	MEDIC Plastic Antistick Needle. 1000 Per Case, Sterile

Concentrates

Fresenius Medical Care has been a leading supplier of hemodialysis concentrates for over 20 years by offering a complete range of acid and bicarbonate concentrates to meet patients' needs. We continue to offer technological innovations to the market by providing products such as citric-based acid concentrate as well as traditional acetic-based acid concentrate. *bibag* on-line dry bicarbonate concentrate is an efficient way to deliver bicarbonate. However, we also provide single and multi-treatment bicarbonate powder as well as liquid sodium bicarbonate.



Liquid Acid Cases

- ▶ Naturalyte®
- ▶ Citrasate®

Liquid Acid Drums

- ▶ Naturalyte
- ▶ Citrasate

Dry Acid

- ▶ GranuFlo®
- ▶ Citrasate DRY
- ▶ Dissolution Units

Bicarbonate

- ▶ Naturalyte Dry Bicarbonate
- ▶ Liquid Sodium Bicarbonate
- ▶ *bibag*® On-line Dry Bicarbonate

Concentrates



NaturaLyte Liquid Acid Concentrate (Cases)

Acetic Acid Based - 45X Proportioning, 0.905 Gallons (3.43 Liters) Per Bottle

Part Number	Description	Unit	Bottles / Case	K (mEq/L)	Ca (mEq/L)	Mg (mEq/L)	Cl (mEq/L)	Dextrose (mg/dL)	Na (mEq/L)	Acetate (mEq/L)	Citrate (mEq/L)
08-0231-4	NaturaLyte Liquid Bottle 0K, 2.25Ca, 1Mg	Case	4	0	2.25	1.0	103.25	100	100	4.0	N/A
08-1001-0	NaturaLyte Liquid Bottle 1K, 0.0Ca, 1Mg	Case	4	1	0.00	1.0	102.00	100	100	4.0	N/A
08-1251-1	NaturaLyte Liquid Bottle 1K, 2.5Ca, 1Mg	Case	4	1	2.50	1.0	104.50	100	100	4.0	N/A
08-2201-5	NaturaLyte Liquid Bottle 2K, 2.0Ca, 1Mg	Case	4	2	2.00	1.0	105.00	100	100	4.0	N/A
08-2251-0	NaturaLyte Liquid Bottle 2K, 2.5Ca, 1Mg	Case	4	2	2.50	1.0	105.50	100	100	4.0	N/A
08-2301-3	NaturaLyte Liquid Bottle 2K, 3.0Ca, 1Mg	Case	4	2	3.00	1.0	106.00	100	100	4.0	N/A
08-3251-9	NaturaLyte Liquid Bottle 3K, 2.5Ca, 1Mg	Case	4	3	2.50	1.0	106.50	100	100	4.0	N/A
08-3301-2	NaturaLyte Liquid Bottle 3K, 3.0Ca, 1Mg	Case	4	3	3.00	1.0	107.00	100	100	4.0	N/A
08-4231-0	NaturaLyte Liquid Bottle 4K, 2.25Ca, 1Mg	Case	4	4	2.25	1.0	107.25	100	100	4.0	N/A

Concentrates



Citrasate Liquid Acid Concentrate (Cases)

Citric Acid Based - 45X Proportioning, 1 Gallon (3.78 Liters) Per Bottle

Part Number	Description	Unit	Bottles / Case	K (mEq/L)	Ca (mEq/L)	Mg (mEq/L)	Cl (mEq/L)	Dextrose (mg/dL)	Na (mEq/L)	Acetate (mEq/L)	Citrate (mEq/L)
08-1251-CA	Citrasate Liquid Bottle 1K, 2.5Ca, 1Mg	Case	4	1	2.50	1.0	104.50	100	100.3	0.3	2.4
08-2251-CA	Citrasate Liquid Bottle 2K, 2.5Ca, 1Mg	Case	4	2	2.50	1.0	105.50	100	100.3	0.3	2.4
08-3251-CA	Citrasate Liquid Bottle 3K, 2.5Ca, 1Mg	Case	4	3	2.50	1.0	106.50	100	100.3	0.3	2.4

Concentrates



NaturaLyte Liquid Acid Concentrate (Drums)

Acetic Acid Based - 45X Proportioning, 55 gallons (208.2 Liters) Per Drum

Part Number	Description	Unit	K (mEq/L)	Ca (mEq/L)	Mg (mEq/L)	Cl (mEq/L)	Dextrose (mg/dL)	Na (mEq/L)	Acetate (mEq/L)	Citrate (mEq/L)
13-2201-5	NaturaLyte Liquid Drum 2K, 2.0Ca, 1Mg	Drum	2	2.00	1.0	105.00	100	100	4.0	N/A
13-2251-0	NaturaLyte Liquid Drum 2K, 2.5Ca, 1Mg	Drum	2	2.50	1.0	105.50	100	100	4.0	N/A
13-3251-9	NaturaLyte Liquid Drum 3K, 2.5Ca, 1Mg	Drum	3	2.50	1.0	106.50	100	100	4.0	N/A

Citrasate Liquid Acid Concentrate (Drums)

Citric Acid Based - 45X Proportioning, 55 gallons (208.2 Liters) Per Drum

Part Number	Description	Unit	K (mEq/L)	Ca (mEq/L)	Mg (mEq/L)	Cl (mEq/L)	Dextrose (mg/dL)	Na (mEq/L)	Acetate (mEq/L)	Citrate (mEq/L)
13-2251-CA	Citrasate Liquid Drum 2K, 2.5Ca, 1Mg	Drum	2	2.50	1.0	105.50	100	100.3	0.3	2.4
13-3251-CA	Citrasate Liquid Drum 3K, 2.5Ca, 1Mg	Drum	3	2.50	1.0	106.50	100	100.3	0.3	2.4

Concentrates



GranuFlo Dry Acid Concentrate (Cases)

Acetic Acid Based (GranuFlo acetate is sodium acetate 4.0 mEq/L and acetic acid 4.0 mEq/L) - 45X Proportioning, 16.5 Gallons (62.46 Liters) Per Case

Part Number	Description	Unit	Bags / Case	K (mEq/L)	Ca (mEq/L)	Mg (mEq/L)	Cl (mEq/L)	Dextrose (mg/dL)	Na (mEq/L)	Acetate (mEq/L)	Citrate (mEq/L)
0FD2201-3B	GranuFlo Dry Acid Case 2K, 2.0Ca, 1Mg	Case	3	2	2.00	1.0	101.00	100	100	8.0	N/A
0FD2251-3B	GranuFlo Dry Acid Case 2K, 2.5Ca, 1Mg	Case	3	2	2.50	1.0	101.50	100	100	8.0	N/A
0FD3251-3B	GranuFlo Dry Acid Case 3K, 2.5Ca, 1Mg	Case	3	3	2.50	1.0	102.50	100	100	8.0	N/A

Concentrates



Citrasate DRY—Dry Acid Concentrate (Cases)

Citric Acid Based - 45X Proportioning, 16.5 Gallons (62.46 Liters) Per Case

Part Number	Description	Unit	Bags / Case	K (mEq/L)	Ca (mEq/L)	Mg (mEq/L)	Cl (mEq/L)	Dextrose (mg/dL)	Na (mEq/L)	Acetate (mEq/L)	Citrate (mEq/L)
0FD2251-DA	Citrasate Dry Acid Case 2K, 2.5Ca, 1Mg	Case	4	2	2.50	1.0	105.50	100	100.3	0.3	2.4
0FD3251-DA	Citrasate Dry Acid Case 3K, 2.5Ca, 1Mg	Case	4	3	2.50	1.0	106.50	100	100.3	0.3	2.4

Accumix Dry Acid Dissolution Systems

Part Number	Description	Depth	Width	Height	Weight (Empty)	Weight (Full)
36-7005-0	Accumix Dry Acid Dissolution System, Single Phase Pump 230VAC, 1, 60Hz 25A	41" with covers	81" with shelf out	74" with Vent Filter	566 lbs	1900 lbs
36-7005-0	Accumix Dry Acid Dissolution System, Three Phase Pump 208VAC, 3, 60Hz 15A	41" with covers	81" with shelf out	74" with Vent Filter	566 lbs	1900 lbs

Concentrates



NaturaLyte Bicarbonate Concentrate 45X Proportioning

Part Number	Description	Unit	Qty/Unit	Gallons/Unit	Packaging	Contents
08-4400-1	NaturaLyte Dry Bicarbonate Carton 2.1 Gallons	Case	12	25.2	1 Carton Yields 2.1 Gallons	650 gm Sodium Bicarbonate/Carton
08-4110-6	NaturaLyte Dry Bicarbonate Bag 15.85 Gallons	Bag	1	15.85	1 Bag Yields 15.85 Gallons	4,875 gm Sodium Bicarbonate/Bag
08-4112-2	NaturaLyte Dry Bicarbonate Bag 25.4 Gallons	Bag	1	25.4	1 Bag Yields 25.4 Gallons	7,807 gm Sodium Bicarbonate/Bag

Liquid Sodium Bicarbonate Concentrate 45X Proportioning

Part Number	Description	Unit	Qty/Unit	Gallons/Unit	Packaging	Contents
08-67753-0	Minntech Centrisol Liquid Bicarbonate Bottle	Case	4	4	1 Bottle Contains 1 Gallon (3.78 L)	81.25 gm/L Sodium Bicarbonate

bibag On-line Dry Bicarbonate Concentrate 45X Proportioning

Part Number	Description	Unit	Qty/Unit	Contents
08-4078-BB	bibag On-line Dry Bicarbonate 650 gram Bag	Case	16	650 gm Sodium Bicarbonate
08-4080-BB	bibag On-line Dry Bicarbonate 900 gram Bag	Case	12	900 gm Sodium Bicarbonate

Saline

Normal (0.9% NaCl) Saline plays an integral role in dialysis treatments and is normally used to maintain liquid volume in the blood. It also is used to wet the blood circuit during hemodialysis and, near the end of the treatment, it is used to push the blood back into the patient.



Saline

Saline

Part Number	Description	Unit	Bags/Case	NDC # (USA)	NDC # (Mexico)
060-10109	Saline, 0.9%, 1000 mL	Case	12	49230-300-10	46163-300-10



Reverse Osmosis Water Systems

The AquaA™, AquaBplus™ and AquaC UNO H™ use reverse osmosis to remove organic and inorganic substances and microbial contaminants from the water required for hemodialysis and other therapies. These feature-rich systems include remote monitoring capabilities and system safety self-test routines at every power-up to ensure that they promote hygienic conditions in the entire fluid path up to the dialysis machine input. These systems are backed by the support and educational resources physicians and clinicians need.



Reverse Osmosis Water Systems

Aqua RO Water Treatment Systems

Part Number	Description		
24-090A-1	AquaA 900	Single Stage RO Only	Equipment
24-180A-1	AquaA 1800	Single Stage RO Only	Equipment
24-270A-1	AquaA 2700	Single Stage RO Only	Equipment
24-360A-1	AquaA 3600	Single Stage RO Only	Equipment
24-090A-1	AquaA2 900	Double Stage RO Only	Equipment
24-180A-1	AquaA2 1800	Double Stage RO Only	Equipment
24-270A-1	AquaA2 2700	Double Stage RO Only	Equipment
24-360A-1	AquaA2 3600	Double Stage RO Only	Equipment
24-00HT-1	AquaHT	Heat Disinfection Unit Only	Ancillary Equipment
24-0501-1	AquaBplus 500	Single Stage RO Only	Equipment
24-1001-1	AquaBplus 1000	Single Stage RO Only	Equipment
24-1501-1	AquaBplus 1500	Single Stage RO Only	Equipment
24-2001-1	AquaBplus 2000	Single Stage RO Only	Equipment
24-2501-1	AquaBplus 2500	Single Stage RO Only	Equipment
24-3001-1	AquaBplus 3000	Single Stage RO Only	Equipment
24-0501-0	AquaBplus B2 500	Double Stage RO Only	Equipment
24-1001-0	AquaBplus B2 1000	Double Stage RO Only	Equipment
24-1501-0	AquaBplus B2 1500	Double Stage RO Only	Equipment
24-2001-0	AquaBplus B2 2000	Double Stage RO Only	Equipment
24-2501-0	AquaBplus B2 2500	Double Stage RO Only	Equipment



Reverse Osmosis Water Systems

Aqua RO Water Treatment Systems cont.

Part Number	Description		
24-00HF-0	HF	Heat Disinfection Unit Only	Ancillary Equipment
F00003313	Option Ringunit advanced 1 ring	RO Central	AquaBplus Ancillary
F00003314	AquaBplus Option "Ring Unit Advanced," 2 rings	RO Central	AquaBplus Ancillary
F00006167	The Hook - MSC	RO Central	AquaBplus Ancillary
F00006456	Fluid Fly Loop 2x2m Coup Probe	RO Central	AquaBplus Ancillary
F00006457	Fluid Fly Loop 2x2m Coupling	RO Central	AquaBplus Ancillary
F00010216	Closure nipple NW 6 - DN 6 - D=10	RO Central	AquaBplus Ancillary
6325111	VIV-ClipHalfPipe 3m InstallationMaterial	RO Central	AquaBplus Ancillary
24-05IN-0	Install Material 5 Station	Install & Loop Material Only	Ancillary Equipment
24-10IN-0	Install Material 10 Station	Install & Loop Material Only	Ancillary Equipment
24-20IN-0	Install Material 20 Station	Install & Loop Material Only	Ancillary Equipment
24-30IN-0	Install Material 30 Station	Install & Loop Material Only	Ancillary Equipment
24-40IN-0	Install Material 40 Station	Install & Loop Material Only	Ancillary Equipment
24-50IN-0	Install Material 50 Station	Install & Loop Material Only	Ancillary Equipment
24-0479-0	Softener Portable including Salt Tablet Kit	Portable Softener Only	Ancillary Equipment
24-GWIN-0	Gateway, without housing, without GSM Module	Gateway Only	Ancillary Equipment
24-10VA-1	Vivonic® Portable RO 1000VA	Aqua C UNO Only	Equipment
24-0970-1	Vivonic® Portable RO 1700VA	Aqua C UNO Only	Equipment

Fistula Needles

Fistula needles are the crucial link between the patient and the dialysis machine, requiring quality, safety, and comfort.



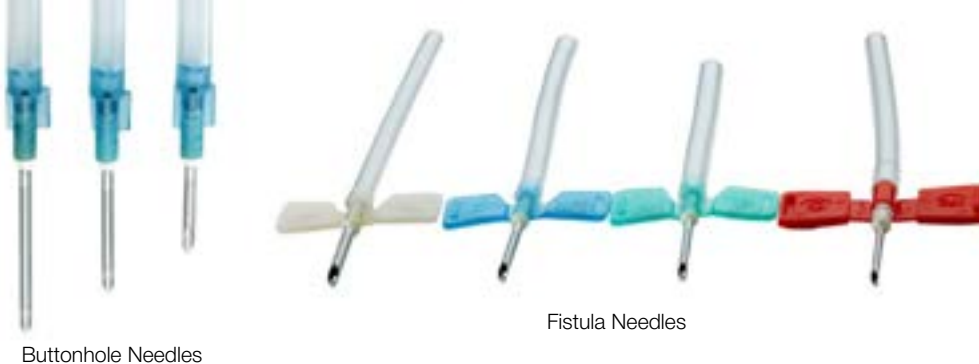
MasterGuard® Fistula Needles

- ▶ Buttonhole® Needles
- ▶ Sharp AV Fistula Needles Twin Pack
- ▶ Sharp AV Fistula Needles Single Pack
- ▶ Sharp AV Fistula Needles Rotatable Hub
- ▶ Ancillaries

Fistula Needles

- ▶ JMS WingEater
- ▶ JMS SysLoc
- ▶ JMS SysLoc MINI
- ▶ JMS Harmony (Blunt Needle)
- ▶ JMS Non-Safety
- ▶ Nipro Tulip
- ▶ Nipro SafeTouch II
- ▶ Nipro BioHole (Blunt Needle)

MasterGuard Fistula Needles



Buttonhole Needles

Product Code	Quantity Per Case	Description
BH-2004PE	250	Dull Needle 14G X 1" BE CL 12" tubing
BH-2005PE	250	Dull Needle 15G X 1" BE CL 12" tubing
BH-2006PE	250	Dull Needle 16G X 1" BE CL 12" tubing
BH-2007PE	250	Dull Needle 17G X 1" BE CL 12" tubing
BH-2035PE	250	Dull Needle 15G X 3/5" BE CL 12" tubing
BH-4005PE	250	Dull Needle 15G X 1" RH BE CL 12" tubing
BH-7004PE	250	Dull Needle 14G X 1" BE CL 12" tubing
BH-7005PE	250	Dull Needle 15G X 1" BE CL 12" tubing
BH-7006PE	250	Buttonhole Needle Set 16G X 1" W/ Steripick, BE, CL, 12" Tubing (Single pack)
BH-7014	250	Buttonhole Needle Set 14G X 1 1/4" BE, CL, 12" Tubing (Single pack)
BH-7015	250	Buttonhole Needle Set 15G X 1 1/4" BE, CL, 12" Tubing (Single pack)
BH-7605PE	200	Buttonhole Needle Set 15G X 1" W/ Steripick, BE, CL, 16" Tubing (Single pack)
BH-7606PE	200	Buttonhole Needle Set 16G X 1" W/ Steripick, BE, CL, 16" Tubing (Single pack)
BH-7615	250	Buttonhole Needle Set 15G X 1 1/4" BE, CL, 16" Tubing (Single pack)

Sharp AV Fistula Needles Twin Pack

Product Code	Quantity Per Case	Description
D9-2004MGP	250	AVF Needle 14G X 1" W/MGP, BE, CL, 12" Tubing
D9-2005MGP	250	AVF Needle 15G X 1" W/MGP, BE, CL, 12" Tubing
D9-2005MGPLB	250	AVF Needle 15G X 1" W/MGP, BE, CL, 12" Tubing, Long Bevel
D9-2006MGP	250	AVF Needle 16G X 1" W/MGP, BE, CL, 12" Tubing
D9-2006MGPLB	250	AVF Needle 16G X 1" W/MGP, BE, CL, 12" Tubing, Long Bevel
D9-2007MGP	250	AVF Needle 17G X 1" W/MGP, BE, CL, 12" Tubing
D9-2007MGPLB	250	AVF Needle 17G X 1" W/MGP, BE, CL, 12" Tubing, Long Bevel
D9-2015MGP	250	AVF Needle 15G X 1 1/4" W/MGP, BE, CL, 12" Tubing
D9-6005MGP	250	AVF Needle 15G X 1" W/MGP, BE, CL, RH, 12" Tubing

MasterGuard Fistula Needles

Sharp AV Fistula Needles Single Pack

Product Code	Quantity Per Case	Description
S9-7004MGP	250	AVF Needle 14G X 1" W/MGP, BE, CL, 12" Tubing
S9-7005MGP	250	AVF Needle 15G X 1" W/MGP, BE, CL, 12" Tubing
S9-7005MGPLB	250	AVF Needle 15G X 1" W/MGP, BE, CL, 12" Tubing, Long Bevel
S9-7006MGP	250	AVF Needle 16G X 1" W/MGP, BE, CL, 12" Tubing
S9-7006MGPLB	250	AVF Needle 16G X 1" W/MGP, BE, CL, 12" Tubing, Long Bevel
S9-7007MGP	250	AVF Needle 17G X 1" W/MGP, BE, CL, 12" Tubing
S9-7014MGP	250	AVF Needle 14G X 1 1/4" W/MGP, BE, CL, 12" Tubing
S9-7015MGP	250	AVF Needle 15G X 1 1/4" W/MGP, BE, CL, 12" Tubing
S9-7016MGP	250	AVF Needle 16G X 1 1/4" W/MGP, BE, CL, 12" Tubing
S9-7017MGP	250	AVF Needle 17G X 1 1/4" W/MGP, BE, CL, 12" Tubing
S9-7435MGP	250	AVF Needle 15G X 3/5" W/MGP, BE, CL, 8" Tubing
S9-7436MGP	250	AVF Needle 16G X 3/5" W/MGP, BE, CL, 8" Tubing
S9-7437MGP	250	AVF Needle 17G X 3/5" W/MGP, BE, CL, 8" Tubing
S9-7605MGP	200	AVF Needle 15G X 1 W/MGP, BE, CL, 16" Tubing

Sharp AV Fistula Needles Rotatable Hub

Product Code	Quantity Per Case	Description
S9-4005MGP	250	AVF Needle 15G X 1" W/MGP, BE, CL, RH, 12" Tubing
S9-4006MGP	250	AVF Needle 16G X 1" W/MGP, BE, CL, RH, 12" Tubing
S9-4007MGP	250	AVF Needle 17G X 1" W/MGP, BE, CL, RH, 12" Tubing
S9-4015MGP	250	AVF Needle 15G X 1 1/4" W/MGP, BE, CL, RH, 12" Tubing

Ancillaries

Product Code	Quantity Per Case	Description
M8-5007	1,000	Medic Anti-Stick Needle/Connector

Fistula Needles



JMS WingEater

JMS WingEater

Part Number	Manufacturer	Single or Twin	Gauge	Cannula Length (Inches)	Wing	Slit	Tube Length (Inches)	Clamp	Scab Removal	Stocked or Drop Ship	Base UOM	Eaches per Base UOM
820-1476-33	JMS	Single	14	1	Fixed	Backeye	12	Yes	N/A	Stocked	CS	250
820-1844-33	JMS	Single	18	1	Fixed	Backeye	12	Yes	N/A	Drop Ship	CS	250
820-5002-33	JMS	Single	15	1	Fixed	Backeye	12	Yes	N/A	Stocked	CS	250
820-5006-33	JMS	Single	15	1.25	Fixed	Backeye	12	Yes	N/A	Stocked	CS	250
820-6013-33	JMS	Single	16	1	Fixed	Backeye	12	Yes	N/A	Stocked	CS	250
820-6014-33	JMS	Single	16	1.25	Fixed	Backeye	12	Yes	N/A	Stocked	CS	250
820-7001-33	JMS	Single	17	1	Fixed	Backeye	12	Yes	N/A	Stocked	CS	250
820-7005-33	JMS	Single	17	1.25	Fixed	Backeye	12	Yes	N/A	Stocked	CS	250
820-2402-33	JMS	Twin	14	1	Fixed	Arterial - Backeye Venous - Regular	12	Arterial - Red Venous - Blue	N/A	Stocked	CS	400
820-2531-33	JMS	Twin	15	1	Fixed	Arterial - Backeye Venous - Regular	12	Arterial - Red Venous - Blue	N/A	Stocked	CS	400
820-2632-33	JMS	Twin	16	1	Fixed	Arterial - Backeye Venous - Regular	12	Arterial - Red Venous - Blue	N/A	Stocked	CS	400
820-2717-33	JMS	Twin	17	1	Fixed	Arterial - Backeye Venous - Regular	12	Arterial - Red Venous - Blue	N/A	Stocked	CS	400

Fistula Needles



JMS SysLoc



JMS SysLoc MINI

JMS SysLoc

Part Number	Manufacturer	Single or Twin	Gauge	Cannula Length (Inches)	Wing	Slit	Tube Length (Inches)	Clamp	Scab Removal	Stocked or Drop Ship	Base UOM	Eaches per Base UOM
824-1502-33	JMS	Single	15	1.25	Rotating Hub	Backeye	12	Yes	N/A	Stocked	CS	300
824-1602-33	JMS	Single	16	1.25	Rotating Hub	Backeye	12	Yes	N/A	Stocked	CS	300

JMS SysLoc MINI

Part Number	Manufacturer	Single or Twin	Gauge	Cannula Length (Inches)	Wing	Slit	Tube Length (Inches)	Clamp	Scab Removal	Stocked or Drop Ship	Base UOM	Eaches per Base UOM
864-1400-33	JMS	Single	14	1	Rotating Hub	Backeye	12	Yes	N/A	Stocked	CS	300
864-1500-33	JMS	Single	15	1	Rotating Hub	Backeye	12	Yes	N/A	Stocked	CS	300
864-1600-33	JMS	Single	16	1	Rotating Hub	Backeye	12	Yes	N/A	Stocked	CS	300
864-1700-33	JMS	Single	17	1	Rotating Hub	Backeye	12	Yes	N/A	Stocked	CS	300

Fistula Needles



JMS Harmony (Blunt Needle)

JMS Harmony (Blunt Needle)

Part Number	Manufacturer	Single or Twin	Gauge	Cannula Length (Inches)	Wing	Slit	Tube Length (Inches)	Clamp	Scab Removal	Stocked or Drop Ship	Base UOM	Eaches per Base UOM
827-1400-33	JMS	Single	14	1	Fixed	Backeye	12	Yes	Yes	Stocked	CS	300
827-1402-33	JMS	Single	14	1	Fixed	Backeye	16	Yes	Yes	Drop Ship	CS	200
827-1500-33	JMS	Single	15	1	Fixed	Backeye	12	Yes	Yes	Stocked	CS	300
827-1503-33	JMS	Single	15	1	Fixed	Backeye	16	Yes	Yes	Drop Ship	CS	200
827-1600-33	JMS	Single	16	1	Fixed	Backeye	12	Yes	Yes	Stocked	CS	300
827-1603-33	JMS	Single	16	1	Fixed	Backeye	16	Yes	Yes	Drop Ship	CS	200
827-1700-33	JMS	Single	17	1	Fixed	Backeye	12	Yes	Yes	Stocked	CS	300

Fistula Needles

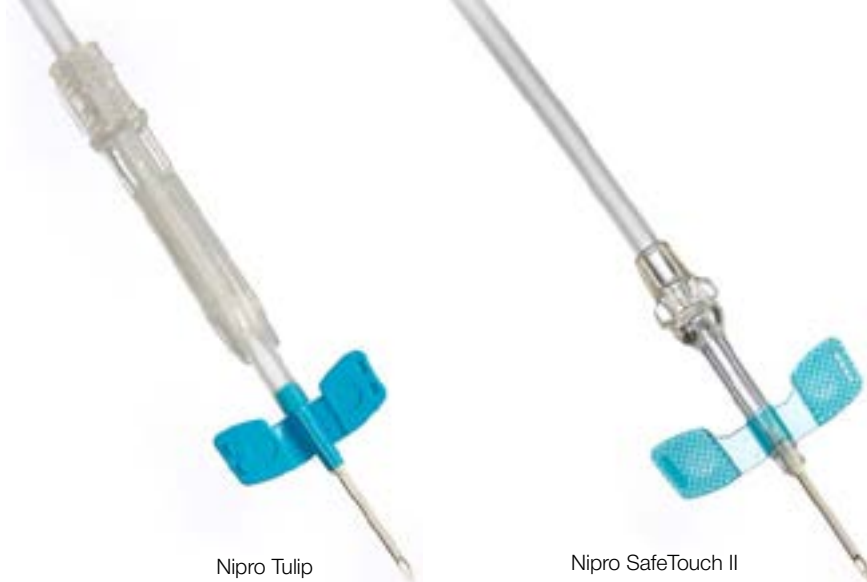


JMS Non-Safety

JMS Non-Safety

Part Number	Manufacturer	Single or Twin	Gauge	Cannula Length (Inches)	Wing	Slit	Tube Length (Inches)	Clamp	Scab Removal	Stocked or Drop Ship	Base UOM	Eaches per Base UOM
820-1590	JMS	Single	15	1.25	Fixed	Backeye	12	Yes	N/A	Stocked	BX	50
820-3500	JMS	Single	15	1	Fixed	Backeye	4	Yes	N/A	Stocked	BX	50
823-1701	JMS	Single	17	1	Rotating Hub	Backeye	12	Yes	N/A	Stocked	BX	50

Fistula Needles



Nipro Tulip

Nipro SafeTouch II

Nipro Tulip

Part Number	Manufacturer	Single or Twin	Gauge	Cannula Length (Inches)	Wing	Slit	Tube Length (Inches)	Clamp	Scab Removal	Stocked or Drop Ship	Base UOM	Eaches per Base UOM
15-FT14BC-0	NIPRO	Single	14	1	Fixed	Backeye	12	Yes	N/A	Stocked	BX	50
15-FT15BC-0	NIPRO	Single	15	1	Fixed	Backeye	12	Yes	N/A	Stocked	BX	50
15-FT16BC-0	NIPRO	Single	16	1	Fixed	Backeye	12	Yes	N/A	Stocked	BX	50
15-FT17BC-0	NIPRO	Single	17	1	Fixed	Backeye	12	Yes	N/A	Stocked	BX	50

Nipro SafeTouch II

Part Number	Manufacturer	Single or Twin	Gauge	Cannula Length (Inches)	Wing	Slit	Tube Length (Inches)	Clamp	Scab Removal	Stocked or Drop Ship	Base UOM	Eaches per Base UOM
FS-142530BC	NIPRO	Single	14	1	Fixed	Backeye	12	Yes	N/A	Stocked	BX	50
FS-152530BC	NIPRO	Single	15	1	Fixed	Backeye	12	Yes	N/A	Stocked	BX	50
FS-162530BC	NIPRO	Single	16	1	Fixed	Backeye	12	Yes	N/A	Stocked	BX	50
FS-172530BC	NIPRO	Single	17	1	Fixed	Backeye	12	Yes	N/A	Stocked	BX	50

Fistula Needles



Nipro BioHole (Blunt Needle)

Nipro BioHole (Blunt Needle)

Part Number	Manufacturer	Single or Twin	Gauge	Cannula Length (Inches)	Wing	Slit	Tube Length (Inches)	Clamp	Scab Removal	Stocked or Drop Ship	Base UOM	Eaches per Base UOM
15-FD14BC-0	NIPRO	Single	14	1	Fixed	Backeye	12	Yes	Yes	Stocked	BX	50
15-FD15BC-0	NIPRO	Single	15	1	Fixed	Backeye	12	Yes	Yes	Stocked	BX	50

Indications for Use

2008T BlueStar™ Hemodialysis Machine:

The 2008T BlueStar Hemodialysis Machine is indicated for acute and chronic dialysis therapy in a healthcare facility. Additional therapy options for patients receiving hemodialysis include: Isolated Ultrafiltration, Sustained Low Efficiency Dialysis (SLED), and low volume hemodialysis (patients weighing ≥ 20 kg and ≤ 40 kg). This machine accommodates the use of both low and high flux dialyzers. The SLED therapy option is not to be used for patients weighing ≤ 40 kg. The 2008T BlueStar Hemodialysis Machine is not to be used for plasma replacement therapies for patients weighing less than 20 kg, or for renal therapies using substitution fluid.

DIASAFE®plus:

The DIASAFE®plus is intended for the preparation of ultrapure fluid for use in dialysis. Attention must still be given to the chemical and microbiological quality of water and concentrates and the maintenance of supply systems (e.g., RO system, central delivery system).

bibag® System (Optional):

The bibag system is used with three stream proportioning hemodialysis systems equipped with the bibag module such as the 2008T BlueStar Hemodialysis Machine, and is intended for use in bicarbonate hemodialysis for acute and chronic renal failure. The bibag is intended for extracorporeal bicarbonate hemodialysis according to a physician's prescription.

Crit-Line® Clip Monitor (CLiC™) (Optional):

The Crit-Line Clip Monitor is used with the 2008T BlueStar Hemodialysis Machine to non-invasively measure hematocrit, oxygen saturation and percent change in blood volume. The CLiC device measures hematocrit, percent change in blood volume and oxygen saturation in real time for application in the treatment of dialysis patients with the intended purpose of providing a more effective treatment for both the dialysis patient and the clinician. Based on the data that the monitor provides, the clinician/nurse, under physician direction, intervenes (i.e., increases or decreases the rate at which fluid is removed from the blood) in order to remove the maximum amount of fluid from the dialysis patient without the patient experiencing the common complications of dialysis which include nausea, cramping and vomiting.

Accumix Dry Acid Dissolution System

The Isopure Dry Acid Dissolution System is designed to mix dry acid concentrates with purified water to produce an acid concentrate solution for hemodialysis for use in 3-Stream (acid concentrate, bicarbonate concentrate, and water) hemodialysis machines. The Fresenius Medical Care Dry Acid Dissolution Unit mixes Fresenius Medical Care distributed dry acid concentrate products with hemodialysis quality water. The resulting liquid acid concentrates are intended for use in three stream hemodialysis machines calibrated for acid and bicarbonate concentrates.

AquaA

The AquaA water purification system is a modular reverse osmosis unit intended for use with hemodialysis systems to remove organic and inorganic substances and microbial contaminants from the water used for treating hemodialysis patients or related therapies. This device is intended to be a component in a complete water purification system, and is not a complete water treatment system. The reverse osmosis unit must be preceded by pre-treatment devices, and may need to be followed by post-treatment devices as well, to meet current AAMI/ANSI/ISO and Federal (U.S.) standards.

Visual LED Indicator

The Visual LED Indicator is used to remotely monitor the operating status of a connected device (e.g., the reverse osmosis water treatment system).

AquaDETECTOR (Optional)

The AquaDETECTOR leakage monitoring system provides full leakage monitoring of a dialysis center, typically during non-treatment hours. The central control unit can be programmed to switch off dialysis water supply systems, dialysis concentrate preparation systems, dialysis concentrate supply systems, booster pump assemblies, and pre-filtration devices when a leak is detected.

AquaBplus

The AquaBplus is a modular reverse osmosis unit intended for use with hemodialysis systems to remove organic and inorganic substances and microbial contaminants from the water used for treating hemodialysis patients or other related therapies. This device is intended to be a component in a complete water purification system and is not a complete water treatment system. The reverse osmosis unit must be preceded by pre-treatment devices and may need to be followed by post-treatment devices as well, to meet current AAMI/ANSI/ISO and Federal (US) standards.

AquaC UNO H

The AquaC UNO H Portable Water Purification System is a reverse osmosis unit intended for use with hemodialysis systems to remove organic and inorganic substances and microbial contaminants from the water used for treating hemodialysis patients or related therapies. The AquaC UNO H can be connected to hemodialysis equipment used in hospitals, clinics, and in home environments. This device is intended to be a component in a complete water purification system, and is not a complete water treatment system. The reverse osmosis unit must be preceded by pre-treatment devices and may need to be followed by post-treatment devices as well, to meet current AAMI/ANSI and FDA-recognized U.S. standards.

Indications for Use (Cont.)

Buttonhole® with SteriPick®

The ButtonHole Needle is indicated for use as an access device for dialysis and pheresis procedures using a constant site or "buttonhole" method of needle insertion.

CombiSet Bloodlines

The Blood Tubing Set is a sterile, single use, disposable indicated for use with a prescribed hemodialyzer. For use with a compatible hemodialyzer, as per the labeling. The Blood Tubing Set is intended for acute and chronic hemodialysis therapy. The Blood Tubing Set is intended to be used with Fresenius Medical Care 2008 Series K, K2, and T Hemodialysis Machines.

Concentrates

Citrasate Dry Acid Concentrate is indicated for use in patients undergoing extracorporeal bicarbonate hemodialysis for acute and chronic renal failure. Citrasate Dry Acid Concentrate is intended to be used as one component in the preparation of dialysate in a three-stream proportioning hemodialysis machine according to a physician's prescription.

Citrasate Liquid Acid Concentrate is indicated for use in patients undergoing extracorporeal bicarbonate hemodialysis for acute and chronic renal failure. Citrasate Liquid Acid Concentrate is intended to be used as one component in the preparation of dialysate in a three-stream proportioning hemodialysis machine according to a physician's prescription.

GranuFlo® Dry Acid Concentrate is indicated for use in patients undergoing extracorporeal bicarbonate hemodialysis for acute and chronic renal failure. GranuFlo Dry Acid Concentrate is intended to be used as one component in the preparation of dialysate in a three-stream proportioning hemodialysis machine according to a physician's prescription.

NaturaLyte® Dry Bicarbonate Concentrate is indicated for use in patients undergoing extracorporeal bicarbonate hemodialysis for acute and chronic renal failure. NaturaLyte Dry Bicarbonate Concentrate is intended to be used as one component in the preparation of dialysate in a 3-stream proportioning hemodialysis machine according to a physician's prescription.

NaturaLyte Liquid Acid Concentrate is indicated for use in patients undergoing extracorporeal bicarbonate hemodialysis for acute and chronic renal failure. NaturaLyte Liquid Acid Concentrate is intended to be used as one component in the preparation of dialysate in a 3-stream proportioning hemodialysis machine according to a physician's prescription.

MasterGuard® Plus

The AV Fistula Needle with MasterGuard Plus anti-stick needle protector is indicated for use as a vascular access device for hemodialysis.

Medic

Medic is indicated for use with collection / administration devices equipped with male luer connectors (such as piston syringes) to access suitable drug vials, blood collection tubes, injection sites (including pre-slit septums), and connect to other medical devices equipped with female luer connectors.

Optiflux F160NRe, F180NRe, F200NRe and F250NRe

Optiflux dialyzers are intended for patients with acute or chronic renal failure when conservative therapy is judged to be inadequate.

Optiflux F180NR

Optiflux Dialyzers are intended for patients with acute kidney injury or chronic kidney disease when conservative therapy is judged to be inadequate.

Saline

Intravenous solutions containing sodium chloride are indicated for parenteral replenishment of fluid and sodium chloride as required by the clinical condition of the patient.

Caution: Federal (U.S.) law restricts these devices to sale only by or on the order of a physician. Frequency, duration, and parameters of treatment are to be determined by the prescribing physician.

Note: Read the Instructions for Use for safe and proper use of these devices. For a complete description of hazards, contraindications, side effects, and precautions, see full package labeling at fmcna.com.

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