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About us

Founded as a manufacturer of medical devices in 1991, SOHA1, now Helal Iran Medical Devices Co., launched the country's biggest, most advanced production line for single use medical syringes. Since then, the company has taken significant steps, owing to its dedication to continuous improvement, technological development and regulatory compliance. The following achievements are proof of our nonstop endeavor to establish ourselves as the leading manufacturer of the industry:

- Exemplary Unit by Standard & Industrial Research Institute in 2002, 2004, 2005, 2007, 2013 and 2014.
- Quality Superior Unit in Tehran Province by Standard & Industrial Research Institute in 2008 and 2009.
- Compliance with Compulsory Standards with all products, and persuasive standard with dialyzer
- Certified Green Industry by Environment Protection Organization in 2000

Diamond Trophy awarded in the 5th National Festival of Distribution in 2012

- Superior Unit in Medicine & Medical Devices Industries in the 7th National Production Festival in 2009
- Superior Manufacturer in the 8th National Production Festival National Honor in 2010
- Superior Manufacturer in the 9th National Production Festival National Honor in 2011
- Superior Manufacturer in the 10th National Production Festival National Honor in 2012
- Exemplary Industrial Unit by Tehran Province Industry & Mine House & Ministry of Industries and Mines in 2009







Fresenius Company assists all nephrologists throughout the world to decrease hospitalization and fatalities of dialysis patients resulting from cardiovascular diseases.

By keeping reliability and affordability, this machine provides hemodialysis treatment with the best quality besides technical development.

- Online Clearance Monitoring (OCM)
- Ulta-Pure Dialysis Fluid (Diasafe Plus)
- Dry concentrated bicarbonate (So-bag S, or Bibag)
- Automatic self-test of all parts of the machine prior to hemodialysis.
- Blood Pressure Monitoring (BPM)*
- Automatic adjusting of dialysis fluid flow with input blood flow of dialyzer for higher quality of dialysis (Adapted flow)
- Extremely precise control over patient's venous pressure (Asymmetric venous pressure)
- Detection of air in the blood circuit through ultra sound transmission, in addition to optical monitoring on the venous clamp
- Precise UF with adjustment capability from 1000 to 4000 ml/hour
- Rate of haparin pump flow from 0 to 10 ml/hour
- Rate of blood pump flow from 15 to 600 ml/min
- Single needle dialysis system with one pump (Single needle system with Click-Clack performance)

^{*} This capability could be changed if required by the customer



The machine offers ultra-high quality treatment of online hemodiafilteration. Thanks to the state of the art technology, the machine is able to generate unlimited quantity of the required high purity physiologic substitution fluid online using the conventional hemodialysis concentrates. As a fully integrated system to improve present and future dialysis, it relies upon three principles:

- 1. Best treatment method for patients
- 2. Best performance for all users
- 3. Improved use of resources

Features

- Effective removal of medium molecular weight toxins
- Determining and achieving the optimized dry weight
- Easy, quick and reliable information management
- Easy application due to automatic circulation
- Integrated and compact design
- Excellent user-and patient interface
- Online hemodiafiltration (online HDF)
- Optimized circulation
- Unique ease of repair and maintenance
- Blood Temperature Monitor (BTM)
- Blood Pressure Monitor (BPM)
- Online Clearance Monitor (OCM)
- Blood Volume Monitor (BVM)



Option merally available for 5008 series and to be used with 5008 patient card

Fresenius Ploysulfone High Flux Hemodialyzer

- Excellent hemocompatibility
- Optimal performance
- Wide product range (0.7 1.8 m²)
- Adapted treatment HD/HDF/HF
- Effective β₂-microglobulin removal
- High endotoxin retention capacity
- Compliance with ISO 8637-1 and INSO-ISO 8637
- F40 for pediatric use



In vitro pe	rformance data/technica	l data			
Items	F40	F60	F70	F80	
Ultrafiltration coeff. (ml/h x mmHg) ¹	20	40	50	55	
Clearance Q _B =200 ml/min					
Urea (ml /min)	165	185	190	192	
Creatinine (ml /min)	140	172	177	180	
Phosphate (ml /min)	138	170	174	177	
Vitamin Biz (ml /min)	80	118	127	135	
Inulio (ml /min)	54	88	98	110	
Clearance Qn=300 ml/min					
Urea (ml/min)	200	242	245	248	
Creatinine (ml/min)	165	215	220	225	
Phosphate (ml /min)	158	210	216	220	
Vitamin Bu (ml /min)	86	134	145	155	
Inulin (ml /min)	58	97	109	120	
KoA (ml /min)	441	736	767	801	
le utro performance: Q. = 500 milinia, Q. = 0 milinia, T. = 17 °C (50 8637). (1) Ultrafiltration coefficients human blood, Ret 37 %, protein consert 6 % t	ise only on machines with controlled ultrafiltration!				
Sieving coefficient for Birm		≥	0.65		
Effective surface (m ⁻)	0.7	1.3	1.6	1.8	
Blood flow range (mi /min)	50-200	150-400	200-500	200-600	
Wall thickness / lumen (µm)		40/2	200		
Priming volume (ml)	42	82	98	110	
Membrane material		Fresenius P	olysulfane		
Housing material		Polycarl	bonate		
Potting compound	Polyurethane				
Sterilisation method		ET	0		
Form of treatment	HD	HD/HDF	HD/HDF	HD/HDF/H	
Units per box	24	20	18	18	

Fresenius Polysulfone Low Flux Hemodialyzer



- Excellent hemocompatibility
- Wide product range (0.7- 1.8 m²)
- > High endotoxin retention capacity

Compliance with ISO 8637-1 and INSO-ISO 8637

> F4 for pediatric use





In vitro performan	ce data/technica	l data			
Items	F4	F6	F7	F8	
Ultrafiltration coeff. (ml/h x mmHg) ¹	2.8	5.5	6.4	7.5	
Clearance Q ₈ =200 ml/min					
Urea (ml/min)	155	180	184	186	
Creatinine (ml /min)	128	164	169	172	
Phosphate (ml /min)	78	123	132	138	
Vitamin B _{1,2} (ml /min)	32	60	68	76	
Clearance Q _B = 300 ml/min		- 111			
Urea (ml /min)	183	230	236	240	
Creatinine (ml /min)	145	194	210	216	
Phosphate (ml/min)	88	145	155	165	
Vitamin B ₁₂ (ml /min)	34	62	72	82	
KoA (ml /min)	364	630	680	720	
In vitre performance: Q ₅ = 500 mil/min, Q ₁ = 0 mil/min, T = 32 °C (ISO 8637). [1] Ultrafiltration coefficients: burnan blood, Rct 32 %, protein content 6 %.	-14				
Effective surface (m²)	0.7	1.3	1.6	1.8	
Blood flow range (ml/min)	50-200	150-400	200-500	250-600	
Wall thickness / lumen (µm)		40/2	00		
Priming volume (ml)	42	82	98	110	
Membrane material		Fresenius P	olysulfone		
Housing material	Polycarbonate				
Potting compound	Polyurethane				
Sterilisation method		ET			
Form of treatment		HI			
Units per box	24:	20	18	18	

Acid Fluid Concentrate

Coming in the form of acid concentrated fluid consisting of Sodium, Potassium, Magnesium, Calcium and Acetate ions, it is made by dissolution of the said ions in pure injectable water (WFI) and packing in 5-litre standard canisters. This acid concentrated fluid could be used together with bicarbonate concentrates, after being 35 times diluted in dialysis machines.



		Compositio	n		
Formula	Concentrated S	olution (g/l)	Diluted Solut	ion (35 times) (g/L)	Units per box
Sodium chloride	216.81	2	6.19	94	NAME OF THE PERSON
Potassium chloride	5.218		0.14	19	
Calcium chloride, 2H ₂ O	6.431		0.18	33	
Magnesium chloride, 6H2O	3.557	150 0000		0.101	
Acetic acid (glacial)	7.356			0.210	
Dextrose,H ₂ O		70.000		2.000	
Electrolytes	mmol/l	mEq/I	mmol/l	mEq/I	3
Na ⁺	3710	3710	106.00	106.00	
K+	70	70	2.00	2.00	
Ca++	43.75	87.50	1.25	2.50	
Mg++	17.50	35	0.50	1.00	
CH ₃ COO	122.50	122.50	3.50	3.50	
CI-	3902.50	3902.50	111,50	111.50	

Bicarbonate Powder Concentrate (So-bag)



Dialysis machine first mixes dry Sodium Bicarbonate in So-bag with RO pure water online, then mixes the solution with acid concentrate providing appropriate dialysis solution. Sodium bicarbonate concentrate, RO pure water and acid concentrate fluid ratio shall be in accordance with the instructions provided for Fresenius dialysis machines.



- - Compliance with ISO 23600-4,5
 - Hemodialysis grade sodium bicarbonate
 - Safe packing
 - Easy transportation
 - Reduced contamination during hemodialysis
 - Single use
 - Intended for 4 hours of hemodialysis
 - Input and output micro porous filters .111111

So-bag Technical Specification								
Color Code	Weight (g)	Material		Filter (µ)		Units per box		
Blue	650	Bag	Connector	80	200	16		
blue	.030	PA-PE	PE	00	200	10		

Bicarbonate powder concentrate	Hemodialysis Machine
So-bag S	Fresenius 5008 & 40085
So-bag 8	Fresenius 4008B



Dialysis machine first mixes dry Sodium Bicarbonate in So-cart with RO pure water online, then mixes the solution with acid concentrate providing appropriate dialysis solution. Sodium bicarbonate concentrate, RO pure water and acid concentrate fluid ratio shall be in accordance with the instructions provided for the respective dialysis machines.

- Compliance with ISO 23600-4,5
- Hemodialysis grade sodium bicarbonate
- Safe packing
- Easy transportation
- Reduced contamination during hemodialysis
- Single use
- Intended for 4 hours of hemodialysis
- Input and output micro porous filters



So-cart Technical Specification							
Color code	Weight (g)	Material	Filter (µ)	Units per box			
Blue	650	PP	80 200	12			

Bicarbonate powder concentrate	hemodialysis Machine			
So-cart	Nipro	B Braun	Gambro	Bellco

Extracorporeal Blood Circuit for Hemodialysis

(Hemodialysis set)

Including arterial and venous sets, these sets are connected to a proper fistula needle (venous set to venous fistula needle set and arterial set to arterial fistula needle set) and hemodialyzer during hemodialysis. The arterial set transfers the blood from patient's body to hemodialyzer and the venous set returns it from hemodialyzer back to the body.



Features:

- Complies with ISO 8637-2 and INSO-ISO 8638.
- Sterile, single use, apyrogenic and biocompatible
- Smooth inner walls decreasing the resistance against blood flow
- Injection site facilitating frequent injection with no additional injury to the patient
- Special connector for preparation of the set for hemodialysis
- Color coding (blue) for venous and (red) for arterial lines, facilitating easy and error-free installation. and preparation of the set
- Original model have connection with transducer protector for measuring line pressure

	B series & l	B origin	al Haer	nodialys	is Set Tech	nical Sp	ecifica	tion
	Blood	Pump tubing			Blood	Color	Units	Sterilization
Type	line volume(ml)	ID (mm)	OD (mm)	Length (mm)	chamber filter (µm)	coding	per box	method
Venous	54 59	*	3	16	230/270	Blue	1940	V1.545
Arterial	76	6.5 9.8	9.8	370	10	Red	20	ETO
70 00 100	82	6.3	9.5	370		neu		

S-classix, Hemodialysis Set Technical Specification								
	Blood Pump tubing Blood		Blood Pump			Color	Units	Sterilization
Type	line volume(ml)	(mm)	OD (mm)	Length (mm)	chamber filter (µm)	coding	per box	method
Venous	73	*	91	-	230/270	Blue	20	ETO
Arterial	90	8	12	340	-	Red	20	ETO

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AV Fistula Needle Set

AV fistula needle set is the interface between the patient's access and dialysis set facilitating extracorporeal circulation of blood intra dialysis.



- Soft textured wings providing a secure grip
- Dry siliconized stainless steel needle extremely sharp for smooth painless cannulation
- Back-eye arterial fistula needle to provide optimal blood flow and prevent suction of the needle to the inner vessel wall thereby reducing the need for rotating the needle, which adds trauma to the AVF
- Sterile, single use, apyrogenic and biocompatible

	AV Fistula Needle Set Technical Specification								
Gage			Tube Length Color OD			Connector	Sterilization method	Units per box	
	(mm)	Code	(mm)	Arterial	Venous	type	mediod	her nox	
17G		Orange	1.47				The state of the s		
16G	150/300	Green	1.65	Red	Blue	Luer Lock	ETO	40	
15G		Blue White	1.81						

Medical Devices Co.

Transfusion Set with

Leukocyte Reduction Filter



Contrary to positive patient outcomes of transfusion of blood components, side effects, mainly posed by the leukocytes are inevitable, particularly in such patients requiring frequent blood transfusion as those suffering from thalassemia. These side effects will be effectively eliminated if leukocytes are properly removed prior to introduction of the blood component to the patient's body with the aid of Transfusion Set with Leukocyte Reduction Filter.



Features

- Compliance with ISO 1135-4 and INSO 4638-4
- Sterile, single use, apyrogenic and biocompatible
- Filter fabric material: Hemocompatible Polybutylene Terephthalate (PBT)
- Decreasing allergic reactions
- Leukocyte removal of up to 99.9%
- Optimal RBC recovery
- Removal of micro aggregates
- Air filter preventing ingress of airborne pathogens

Leukocyte filters incorporated into the sets are availabe in two sizes:

So-fil 01: For one blood unit So-fil 02: For two blood units

TransInfusion Set with Leucocyte Filter Technical Specification									
Product	Capacity	Leucocyte Reduction (%)	Maximum Filtration Pressure (mmHg)	Sterilisation Method	Units per box				
SO - Fil 01	1 unit blood bag	99.9 % (3 log)	300	ETO	25				
SO - FII 02	2 unit blood bag	99.9 % (3 log)	300	210	20				

Burette Infusion Set

Microset

Microset is a measured volume intravascular administration set, a device used to administer fluids from a container to a patient's vascular system through a needle or catheter inserted into a vein. The device may include tubing, a flow regulator, a drip chamber, an infusion line filter, an I.V. set stopcock, fluid delivery tubing, a Y - type injection site, and a hollow spike to penetrate and connect the tubing to an I.V. bag or other infusion fluid containers.



- Compliance with ISO 8538-5 and INSO 8357-5
- Sterile, single use, apyrogenic and biocompatible
- Automatic shut-off swim valve to prevent air embolism
- > Transparent tubing to detect bubbles
- Piercing spike with bacteria-proof air vent
- > 15 micron fluid filter
- Stopcock (roller clamp) to adjust or disconnect the flow
- 6% tapered luer lock connector facilitating connection of the device to IV catheter or other medical devices
- Transparent and flexible drip chamber to observe the movement of the drops
- 60 drops equal to 1± 0.1 ml.
- One Y-type injection site plus an additional injection site on the burette
- 100 ml burette with fine graduation

Burette Infusion Set Technical Specification						
Burette Volume (ml) Sterilisation Method Units per bo						
100	ETO	100				

Infusion Set



Infusion set is an intravascular administration set, a device used to administer fluids from a container to a patient's vascular system through a needle or catheter inserted into a vein. The device may include the needle, tubing, a flow regulator, a drip chamber, an infusion line filter, an I.V. set stopcock, fluid delivery tubing, a flash type injection site, and a hollow spike to penetrate and connect the tubing to an I.V. bag or other infusion fluid containers.



- Compliance with ISO 8536-4 and INSO 8357-4
- Sterile, single use, apyrogenic, and biocompatible
- Transparent and flexible drip chamber to observe movement of the drops
- Firm spike with special design for easy penetration into I.V. bag or other infusion fluid container
- Air filter to prevent ingress of particles and airbome pathogens into the fluid path
- 15-micron filter to prevent the particles in IV fluid reaching the fluid path
- 20 drops equal 1± 0.1 ml
- > Flash-type injection site
- 6% tapered luer slip connector facilitating the connection of the set to IV catheter or other medical devices
- Stopcock (roller clamp) to adjust or disconnect the flow.

Infusion Set Technical Specification				
Length of the set (mm)	Sterilisation Method	Units per box		
1500-1700	ETO	400		

Tissue Stabilizer

SPAYA Heart Tissue Stabilizer

As a member of cardiac stabilization and positioning group of devices, SPAYA tissue stabilizer is intended to be used during performance of minimally invasive cardiovascular surgery for coronary artery bypass grafting through a sternotomy incision approach on the non-arrested heart. The device offers a stabilizing function to control the movement of the beating heart.

It is used in combination with sternum retractor blades and, if need be, heart positioner.

Features

- Optimal stabilization besides ease of use
- Compatibility of mount with most adult sternal spreaders
- Exceptional control and reach owing to 3D swivel
- Strong maneuverable arm
- Offering strength and stability with anastomotic site visibility and access



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IV Catheter



An intravascular catheter is a device that consists of a slender tube and any necessary connecting fittings and that is inserted into the patient's vascular system for short term use (less than 7 days) to sample blood, monitor blood pressure, or administer fluids intravenously

This product has one injection site equipped with a non-return valve to prevent fluid return.



Features

- Compliance with ISO 10555-1,5 and INSO 7325-1,5
- Sterile, single use, apyrogenic and biocompatible
- Siliconized stainless steel stylet
- Radiopaque FEP polymer cannula

		IV Cathete	r Technic	al Specificati	on	
Gauge	Colour Code	OD (mm)	Length (mm)	Flow Rate (ml/min)	Units per box	Sterilization Method
16 G	Gray	1.71	51	191		
18 G	Green	1.32	44	105		ETO
20 G	Plok	1.10	32	79	6000	
22 G	Blue	0.90	25	41		
24 G	yellow	0.70	19	18		
26 G	Violet	0.60	19	15		

Dental Needle

Dental needle with different longitudinal scale provides easy injection of anesthetics into the patient's gum using dentistry syringe. The product includes a cap and a protector to preserve its sterility.

- Compliance with ISO 7885 and INSO 5554.
- Sterile, single use apyrogenic, and biocompatible
- Dry siliconized stainless steel needle for painless smooth penetration



		Denta	Needle Technical Spe	cificatio	n	
Gauge	Hub Colour	OD (mm)	Effective Length (mm)	Сар	Units per box	Sterilisation Method
22.5	27 G Gray	Gray 0.41 Short: 22 Slute 5000	ETO			
2/6		0.41	Long: 32	White	5000	210





Hypodermic Needle

Hypodermic needle together with a syringe is used to inject or withdraw fluids into or from the body

Features

- Compliance with ISO 7864 and ISIRI 3979
- Sterile, single use, apyrogenic and biocompatible
- Dry siliconized stainless steel needle for painless smooth penetration



3- Part Syringe

10 ml Hypodermic Syringe

10 ml syringe together with hypodermic needle is used to inject or withdraw fluids into or from the body. In this syringe, a siliconized rubber gasket is applied to guarantee smooth movement of the plunger inside the barrel while preventing the leakage of fluids throughout the application



- Compliance with ISO 7886-1 and INSO 770-1
- Sterile, single use apyrogenic, and biocompatible
- Dry siliconized stainless steel needle for painless smooth penetration.

	3-part	, 10 ml Syrin	ge with needle Technical	Specification	
Nominal Capacity (ml)	Graduation (ml)	Needle	Nozzle type	Units per box	Sterilisation Method
10	0.5	21 G	Centric Luer Slip & Luer lock	800	ETO



2&3-Part Syringe

2, 3 & 5 ml Hypodermic Syringe

3 and 5 ml syringes together with hypodermic needle are used to inject or withdraw fluids into or from the body



Features

- Compliance with ISO 7886-1 and INSO 770-1
- Sterile, single use apyrogenic and biocompatible
- Dry siliconized stainless steel needle for painless smooth penetration

Hypodermic Syringe with needle Technical Specification						
Syringe	Nominal Capacity (ml)	Graduation (ml)	Needle gage	Nozzle type	Units per box	Sterilization Method
2 ml 2&3 part	2	0.1	23 G	Centric Luer Slip	1500	
3ml 3 part	3	0.1	23 G	Centric Luer lock	1500	ETO
5ml 2&3 part	5	0.2	22 G	Eccentric Luer Slip	1000	

Insulin Syringe

The single use insulin syringe of 1 ml volume with permanently attached needle minimizes the dead space, providing precise injection with minimal waste of injectable. Originally designed for injection of 100 units of insulin, it offers one of the most economical methods for injection of any injectable such as anesthetics, compatible with the specifications of the product.

Features

- Compliance with ISO 8537 and INSO 3591
- Sterile, single use, apyrogenic and biocompatible
- Syringe graduation at one unit increments
- Dry siliconized stainless steel needle for painless smooth penetration

		Insulin Syr	ringe Tec	hnical !	Specification		
Nominal Colour of	Colour of	Needle			m	1 to be twee	
Capacity (ml)	cap	the needle cap	Gauge	OD (mm)	Effective Length (mm)	Sterilisation Method	Units per box
1ml (U-100)	Orange	Octobra 1	29 G	0.33	8-12	ETO	3000
1ml (U-100)	White	Orange	30 G	0.30	8-12		1600

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Hand Antiseptic Solution

Soha Hand Antiseptic Solution is an operative and quick effect alcohol-based anti-septic solution for removing pathogenic micro-organisms on hand skin which can be used for sanitary purposes of people and staff working in medical and clinical occupations.

The formulation of this solution has been approved by Ministry of Health in two ethanol and isopropanol types which is both an anti-septic solution with high germicidal coverage and with minimum dermal stimulants.

Since most of hospital infections are transmitted through hand touch, alcohol solutions are recognized as one of the most effective solutions to decrease damages and costs due to hospital infections and it is recommended for public usage and hospitals ward.

This solution is supplied in 250ml, 500ml, 1liter and 5 liter bottles.

- Proper efficiency against wide range of micro-organisms including Gram positive and negative bacteria, fungi, mycobacterium and types of viruses in accordance with requirements of United States Pharmacopoeia (USA);
- Free from any kind of carcinogen matters for safe usage of this product in large quantity and for a long time;
- Containing special additives for health and humidity of hand skin to decrease dermal imitants.





Medical Face Mask

Soha face masks are disposable and used for general applications (medical).

This mask has durable filter consisting of three layers from poly-propylene, the not-woven textile layers on two sides are from spun bond and the internal later is from melt blown.

This mask prevents entrance of any particle with size of more than 3 micron, and proper diameter and thickness of fibers prevent pressure drop more than air flow and occurrence of respiratory problems.

Due to dehydration characteristic of two internal and external layers, it avoids absorption of humidity of breathe or environment air, hence it won't be wet and required conditions won't be provided for entrance of micro-organisms.

- Compliance with EN 14883 and INSO 6138 Standard
- Full filtration of dust without remarkable increase in pressure drop;
- Preventing entrance of micro-organisms including bacteria, fungi and viruses;
- Mask never gets wet during use.



	Medical Face Masi	k Technical Specification	
Product model	Differential pressure (ΔP)	Bacterial Filtration Efficiency (BFE)	Units per box
Type I	Max.40 Pa/cm ²	Min. 95 %	2000

So-Guard

Face shield is an instrument to protect face from patient's secretions. This shield is free size, i.e. it is appropriate for all and it can be installed on glasses.

Whereas this product can be reused, it is cost effective.

This product is easy to use and can be applied instead of mask.

It seems required for medical staff for protect them from patient's secretions and upon occurrence of Corona virus, influenza and other viral diseases, this shield can be so useful and prevents transmission of any disease.

To avoid transmission of Corona and some other diseases, it is so important to prevent touching face with contaminated hands. When this shield is placed on face, it will be impossible to touch face with hands, so it avoids transmission of diseases.

Features

- Without making any limitation in normal vision due to its transparent plastic shield;
- It fully covers the face;
- It can be used on medical glasses;
- Light and reusable for a longer time;
- Due to its foam with high density and thickness, it is more comfortable and it provides a proper gap between plastic and face;
- No perspiration during use;
- It can be disinfected and washed with water and soap.



Dimensions	Units per box
38 cm × 24 cm	40







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