





## Pharmed Medical Industries

### Member of the ICD Group

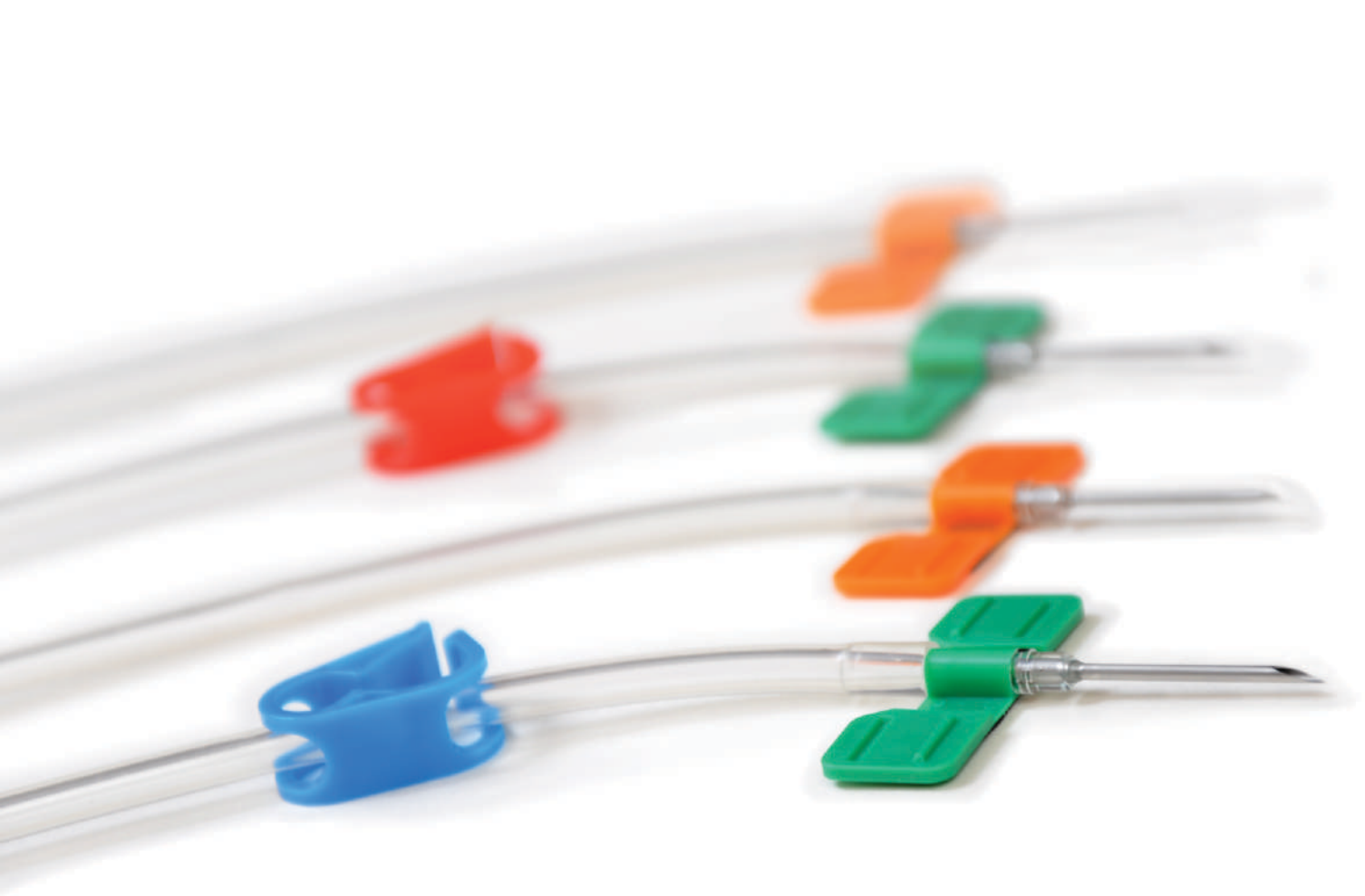
Having been established in 2012, Pharmed Medical Industries, as one of the members of the ICD Group, is concerned with the production of dialysis disposables as well as the supply of dialysis related medications. Using both knowledge and know-how from the pioneering companies and applying the latest technologies, the company's activities are directed towards improving the quality of its products which are manufactured using high-grade raw material. The company has managed to obviate the need for improving the quality systems by establishing a quality management system which is in compliance with ISO 13485:2016, and implementing PIC/S standard principles.





Top quality raw materials, the highest standards of quality management systems based on ISO 13485 and PIC/Sand professional human resources are the backbone of our manufacturing policy. A robust R&D system in our golden bridge to the new horizons and constant developments ahead of us.





## Fistula Needle Set

The fistula needle set plays a major role in alleviating patients' pain since it is in direct contact with them. Pharmed Medical Industries is the exclusive producer of fistula needle in three different sizes: 15, 16, and 17 G. Among the assets of fistula needle set are:

- Precise diagonal cutting and entirely smooth penetrating tip provides the best possible skin puncture and ensures a pain free needle injection with minimal skin traction
- Steady angle-free slant at the needle's tip
- A big oval back on the arterial needle which:
  - o Maximizes the blood flow
  - o Minimizes skin tissue damage
- An ultra-thin wall which:
  - o Increases the blood flow
  - o Minimizes skin tissue damage and pain at penetration
- Silicon coating for
  - o Straight and smooth movement in the vessel
  - o Enhanced and pain-free needle penetration
- Standard hardness level and color codes for arterial and venous clamps
- Sterilized with ethylene oxide (ETO 10%) gas for
  - o Reducing patients' probable inflammatory and allergic reactions
  - o Less environmental impacts



Product Name	Product Code	Sterilization	Set/ Packing	Wing Type	Wing Color	Safety Guard	Tube Length	Needle Length	Gauge
Fistula needle Venous (MC)	4218342	ETO	180	Rotating	Green	No	150 mm	25 mm	16 G
Fistula needle Arterial (MC)	4218340	ETO	180	Rotating	Green	No	150 mm	25 mm	16 G
Fistula Needle Venous(MC)	4218354	ETO	180	Rotating	Orange	No	150 mm	25 mm	17 G
Fistula Needle Arterial(MC)	4218356	ETO	180	Rotating	Orange	No	150 mm	25 mm	17 G
Fistula Needle Arterial(MC)	4218364	ETO	180	Rotating	Blue	No	150 mm	25 mm	15 G
Fistula Needle Venous(MC)	4218366	ETO	180	Rotating	Blue	No	150 mm	25 mm	15 G







## Blood Line Set

- In compliance with BS EN ISO 8637 and BS EN ISO 8638 standard requirements
- Made of medical grade DEHP-free raw material
- Made of transparent plastic material without cytotoxic reactions
- Follow ergonomic design principles and have simple but safe connections
- Segmental color coding
- Special geometric venous chamber design
- Sufficient color coded clamps
- Including clamp at heparin infusion site
- Having transducer protector
- Fistula performance measurability in new standard blood line sets
- Having prime solution collection pouch in the new generation of blood line sets
- Sterilized by ethylene oxide (ETO 10%) gas for
  - Reducing patients' probable inflammatory and allergic reactions
  - Less environmental impacts

Type	Product Code	Tube Pump (mm)			Volume (ml)		Sterilization Method
		Inner Diameter	Outer Diameter	Length	Arterial Set	Venous Set	
Universal	4212200	6.5	9.8	380	82	62	ETO
Blood Line Set, SF	4212220	6.5	9.8	380	82	76	ETO
Blood Line Set, SB	4212214	6.5	9.8	340	82	74	ETO
Blood Line Set, SG	4212216	8.0	12.0	380	90	62	ETO
Blood Line Set, SF Without Bag	4212222	6.5	9.8	380	82	76	ETO
Blood Line Set, SB Without Bag	4212212	6.5	9.8	340	82	74	ETO
Blood Line Set, SG Without Bag	4212219	8.0	12.0	380	90	62	ETO



Product	Bag Material	Pieces/Packing	Dialysate Flow Rate	Product Code
RenaBag 650g	PA/PE	16	500 ml/min	4315210
RenaCart 650g	PP	10	500 ml/min	4315310

## Sodium Bicarbonate Powder Bags and Cartridges

(RenaBag, RenaCart)

(NaHCO<sub>3</sub>, EUr.Ph)

- Fully automatic manufacturing procedure to meet the latest world technologies
- Bicarbonate sodium powder in compliance with USP/EP and AAMI standard regulations
- RenaBag containers are made of (PE/PA) raw material which secure the products' transparency, lightness, flexibility, and stock space friendliness.
- Biocompatible
- Dust proof packaging
- Effective filters and mesh in inlet and outlet to prevent damages to the machine caused by unsolved powder
- Preventing environmental pollution using a cap for Renacart’s input and output port





## Hemodialysis Concentrates

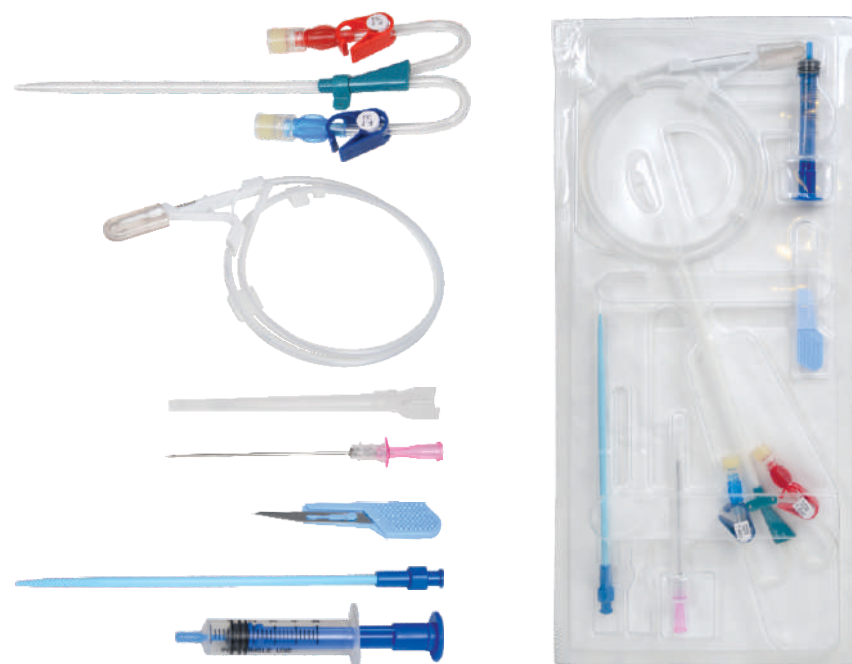
All hemodialysis concentrates are produced in compliance with BP, EUr.Ph, USP, and FDA regulations. The production of various types of hemodialysis concentrates allows for the most proper choice consistent with the patients' clinical conditions.

### Acidic Formula Concentrates:

- Acidic formula type I for hyperkalemic state
- Acidic formula type II for all dialysis patients
- Acidic formula type III for hypokalemic and CHF patients and those receiving digoxin medication

Product	Volume ( liter )	Packaging	Pieces/Packing	Product Code
Acidic I	5	Gallon	3	4316205
Acidic II	5	Gallon	3	4316210
Acidic III	5	Gallon	3	4316215





# RenaCath

## Hemodialysis Catheters Kit

- Soft and diagonal catheter tip facilitates smooth penetration
- Soft and flexible guide wire tip prevents vessel wall rupture facilitating proper forward movement of the guide wire
- Rotating side wings for patient's safety and comfort
- Ergonomic design of caps for solid strength and ease of use
- Priming volume indicated on each tube
- Accessory tubes with caps and clamps
- Variety of sizes and gauges

Product Code	Product
4222215	RenaCath Straight Catheter 11Fr*15cm
4222220	RenaCath Straight Catheter 12Fr*15cm
4222265	RenaCath Curved Catheter 11Fr*15cm
4222268	RenaCath Curved Catheter 12Fr*15cm

- Adequate radio opaque material enables clear marking for proper placement of catheter tip
- Two different straight and curved designs
- Unique design which provides maximum flow and minimum pressure
- All parts sterilized with Ethylene Oxide (ETO) gas







## Blood Bags

The production of various types of blood bags was initiated in Pharmed Medical Industries since 2014 following broad expert and technical feasibility studies. Building upon the attempts made by the research and development complex and the technical knowledge transmission of leading manufacturers in the world, the company has fulfilled its desired objective to design Blood Bags capable of collecting, retaining, transfusing, separating, and injecting blood and its components. Being a critical medical product, Pharmed Company's Blood Bags are produced in conformity with ISO 3826-1, ISO 3826-2, and ISO 3826-3 standards in absolutely hygienic and safe conditions. Regarding applicability, they are closely compatible with the blood transfer set; moreover, they are sterile, non-toxic, free from pyrogenic material, made of flexible PVC, and contain anticoagulant. Also there are small side bags attached to them which allow for the hygienic separation of platelets from the blood. Depending on the usage and needs, Blood Bags are produced in single, double, triple, quadruple, triple in-line with leukocyte reduction filter, and quadruple in-line with leukocyte filter configurations and in 150, 350, and 450 collection volumes. All various types of blood bags produced in this company come with sampling Blood Bags and needle safety guard.

### Description

Blood Bags are disposable and presented in two anticoagulant types:

1. Sterile Blood Bag with CPDA – 1 anticoagulant
2. Sterile Blood Bag with CPD and SAGM solution

### Sterilization Method

- Steam (autoclave) Sterilization

### In Compliance with

- ISO 3826
- BP, Eur, and USP





# General Specifications

## Components and Raw Material

### Anticoagulant Solution

CPD and CPDA -1 anticoagulants make blood storage possible for up to 21 and 35 days, respectively. SAGM provides RBC storage for up to 42 days.

### Plastic and Polymeric Material

Collection and transfer bags are made of suitable plasticizers. Platelet bags with adequate gas permeability which provides platelet storage up to 5 days. Bags are embossed to avoid sticking to each other during the autoclave process; rounded edges reduce loss of blood components in the course of transferring. All these material are made of transparent medical grade and particle-free raw materials to facilitate monitoring during the course of transferring.



### Needle and Safety Guard

- Ultra-thin walled silicon-coated needle
- Minimal stress and pain to the donor
- Safety guard that improves safety of the operator and the treatment process by eliminating needle sticks



### Sampling Bag with Accessories

The sampling bag is used to collect blood flow from the donor and prevents from contamination caused by indigenous bacteria on the skin. 30-35 ml blood flow could be transfused by these bags. Moreover, the blood collection tube facilitates the sampling process by using vacuum tubes.



# Labeling and Packaging

Pharmed Medical Industries is the registered member of the International Council for Commonality in Blood Banking Automation (ICCBBA) to use the International Society of Blood Transfusion's (ISBT) barcode for systematic identification and tracing.

## Label Specifications

- Easy to write on
- Tamper evident
- Resistance against tear, water, and centrifugation
- Legible, Clear, and easy to understand
- Barcoded in compliance with ISBT 128

## In-line Leucocyte-Removal Blood Bag Filters

Pharmed Medical Industries is capable of producing various types of triple and quadruple blood bags with leukocyte-removal filters (red blood cells, whole blood) using CPD and CPDA-1 anticoagulant solutions, and SAGM solution in line with the needs and demands of the market.





Product Code	Configuration	Collection vol.	CPD vol.
4512240	Single Blood Bag	450 ml	63 ml
4512265	Double Blood Bag	450 ml	63 ml
4512230	Triple Blood Bag	450 ml	63 ml

Product Code	Configuration	Collection vol.	CPDA-1 vol.
4512250	Single Blood Bag	450 ml	63 ml
4512260	Double Blood Bag	450 ml	63 ml
4512220	Triple Blood Bag	450 ml	63 ml
4512280	Quadruple Blood Bag	450 ml	63 ml

Product Code	Configuration	Collection vol.	CPD vol.	SAGM vol.
4512210	Triple Blood Bag	450 ml	63 ml	100 ml
4512290	Quadruple Blood Bag	450 ml	63 ml	100 ml



## Phlebotomy Bag

- Collection of inoperable blood
- Steam (autoclave) sterilization
- Free from toxic and pyrogenic factors
- Medical grade PVC in all segments
- Medical grade PVC bag
- Sharp and smooth silicon-coated 16G needle for pain relief
- Clamp for blocking blood flow in the tube
- Safety guard for cutting prevention prior to and after blood transfusion
- Ensuring patients' safety during phlebotomy
- Apposite packaging in compliance with ISO 3826 standard regulations



# Hemoconcentrator

## Concentrating Diluted Blood in Open Cardiac Surgical Procedures

Hemoconcentrator is a medical disposable which is used in open cardiac surgical procedures. Using oxygenators and artificial hearts during the surgical procedure lets a great amount of liquid into the patients' body. These extra liquids are extruded by the use of Ultrafiltration and Convection methods and hemoconcentrators instantly after the surgery. The main part of this product is the hemofilter that is a hollow-fiber semipermeable membrane including tiny pores on its surface through which globules, proteins, and globulins cannot pass; however, it is permeable to water, keratin, urine, chloride, and glucose. According the blood is purified.

Dialyser Type	Fiber Type	Housing Raw Material	Cross Section Area	TMP
PES 160 HF	Polyethersulfone	Polycarbonate	1.6 m <sup>2</sup>	Maximum 500mmHg





# Sales and Customer Care Services

Sales, distribution, and customer care services are exclusively carried out by Medway Teb Pouyan Company.

- Customer care service department is available 24 hours 7 days a week
- Customer satisfaction is our number one priority
- All complaints and suggestions shall be taken care of in the earliest time
- Recommendations would be of great benefit for improving the products' quality



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