

Operating Manual

DIAPACT® CRRT

SOFTWARE 2.0



B | BRAUN

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Table of Contents

	Page		Page
1. Fields of Application	3	5. Intermittend Therapies	61
1.1 General Information	3	5.1 HF	61
1.2 Types of Therapy	4	5.2 HD / HFD	75
1.3 Safety Requirements	8	6. Plasma Therapies	89
2. Equipment Description.....	9	6.1 PEX	89
2.1 Front View	9	6.2 PAP	103
2.2 Rear View	10	7. Alarms.....	117
2.3 Pump Module.....	11	7.1 Alarm Display and Resetting.....	117
2.4 User Interface (graphic LCD display)	12	7.2 S.A.D. Alarm. How to Remove It	124
3. General Operations	15	8. Installation and Technical Data	125
3.1 Start up.....	15	8.1 Notes on Installation	125
3.2 Therapy selection	16	8.2 Electrical Installation	126
3.3 Disposable kit setting up	17	8.3 Important Notes.....	126
3.4 Preliminary steps	17	8.4 Technical Data.....	127
3.5 Parameters choice and adjustment	18	8.5 General Data	130
3.6 Priming	18	8.6 Function Check and Commissioning	131
3.7 Therapy	18	9. Accessories	133
4. Continuous Therapies	19	9.1 Diapact® CRRT System and Relevant Disposable Products	133
4.1 SCUF.....	19		
4.2 CWH	33		
4.3 CWHD / CWHFD	47		

1. Fields of Application

1.1 General Information

Stand alone dialysis unit

Simple and compact, Diapact® CRRT is a unique blood filtration system especially designed for use in emergency situations where a steady supply of purified water is not available.

The simplified operating interface and intelligent software design help minimize the demand on personnel.

The Diapact® CRRT includes three pumps (blood, dialysate/infusion and ultrafiltration) and an electronic weighing system that continuously controls the patient's fluid balance.

The Diapact® CRRT system utilizes sterile solutions in bags (lactate or bicarbonate) and an entirely disposable tubing set, thus eliminating the need for post-treatment disinfection procedures.

In addition to continuous treatments for acute patients (CVH, CVVHD), the Diapact® CRRT system can be used to perform "gentle" intermittent haemodialysis and High Flux Dialysis treatments for chronic patients.

When high permeability membranes are used, diffusive and convective transports can be combined.

The Diapact® CRRT system controls the filtration/back-filtration mechanism inside the filter, thus reducing the amount of replacement solution required (High Flux Dialysis).

The Diapact® CRRT is suitable for:

- intensive care units
- renal care
- emergency situations
- blood banks

Main features

The Diapact® CRRT allows a wide range of therapy forms.

Continuous Therapies:

- Slow Continuous Ultrafiltration (SCUF)
- Continuous Veno-Venous Haemofiltration (CVH)
- Continuous Veno-Venous Haemodialysis / High Flux Dialysis (CVVHD/CVVHFD)
- Single pass mode and Recirculation mode

Intermittent Therapies:

- Haemofiltration (HF)
- Haemodialysis / High-Flux Dialysis (HD/HFD)

Plasma Therapies:

The presence of three pumps and a load cell give Diapact® CRRT a great flexibility.

In addition to Haemodialysis therapies, Diapact® CRRT allows the following plasma therapies:

- Plasma EXchange (PEX)
- Plasma Adsorption/Perfusion (PAP)

The Diapact® CRRT is designed to perform a wide range of therapies. The operator can select the type of therapy from the main menu.

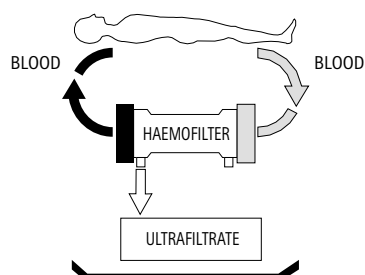
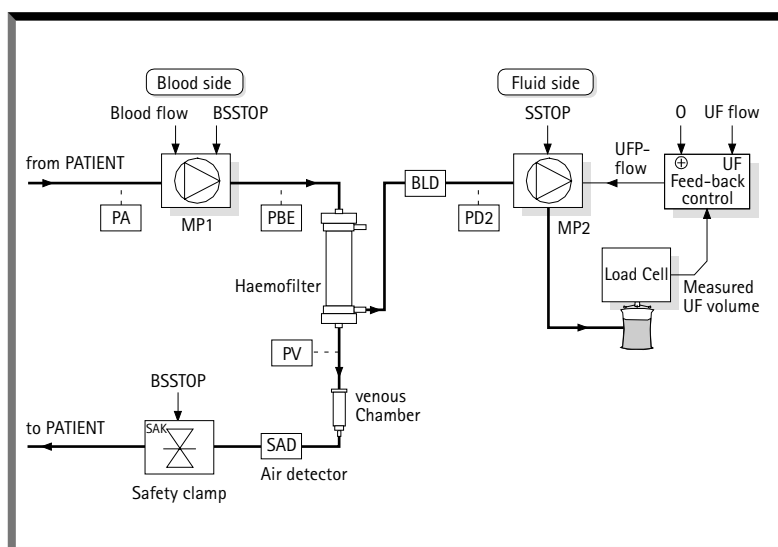
The Diapact® CRRT equipment may only be moved after disconnecting the patient and separation from mains supply.

1.2 Types of Therapy

1.2.1 Continuous Dialysis Therapies

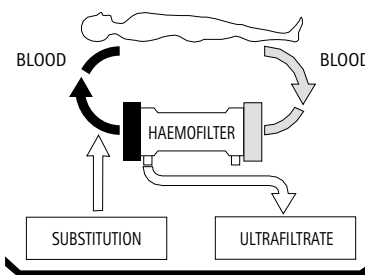
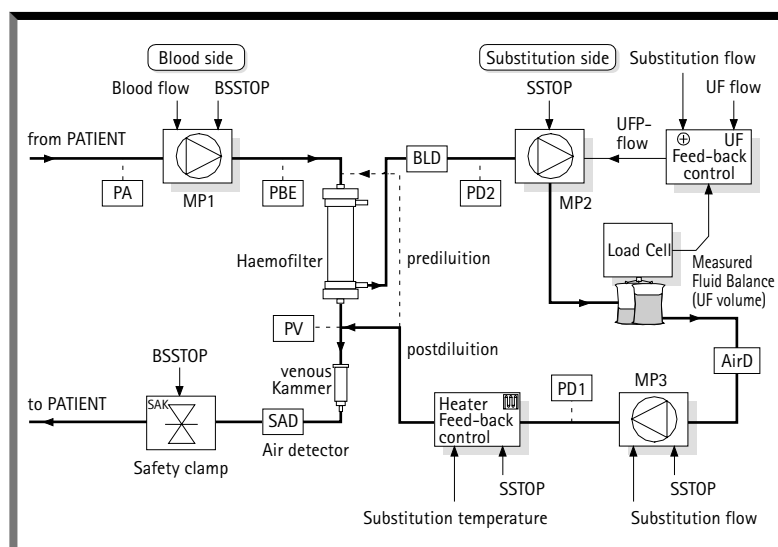
SCUF

Slow Continuous Ultrafiltration



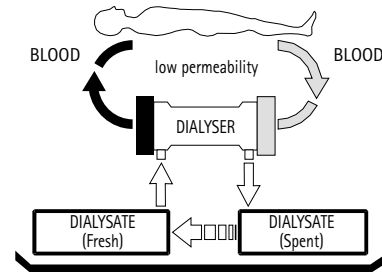
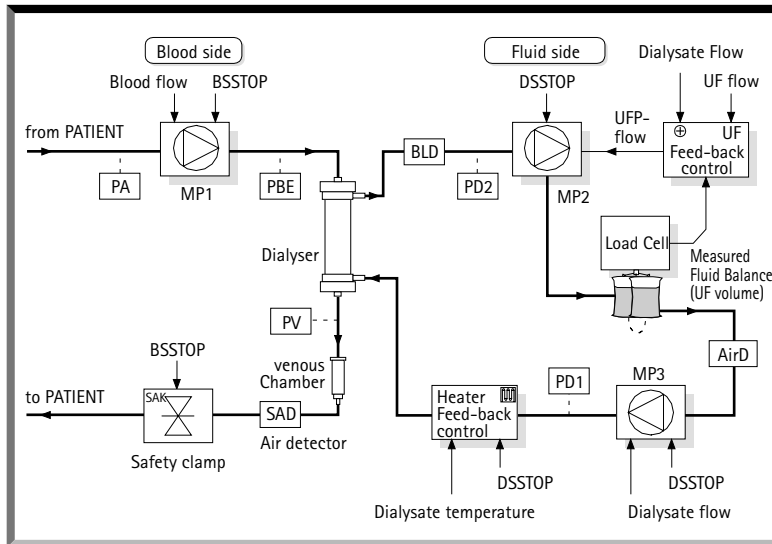
CWH

Continuous Veno-Venous Haemofiltration



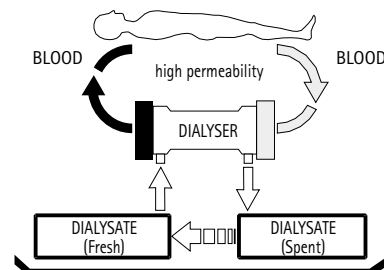
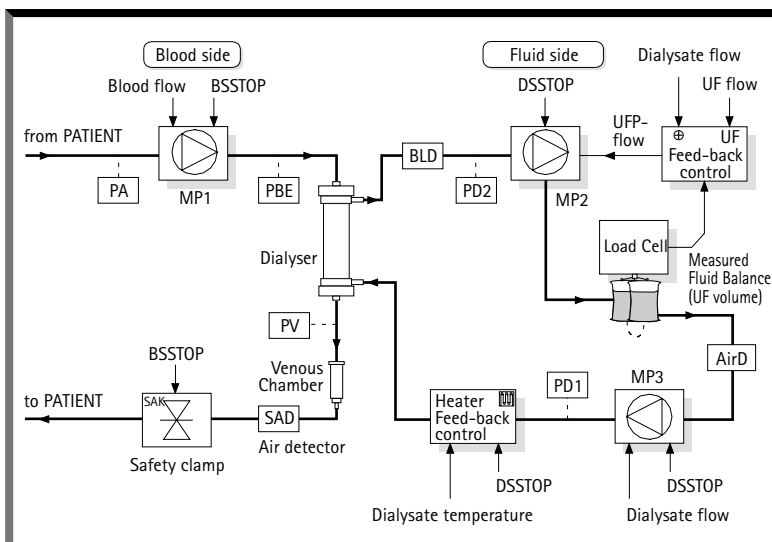
CVHD

Continuous Veno-Venous Haemodialysis
(Single Pass or Recirculation)

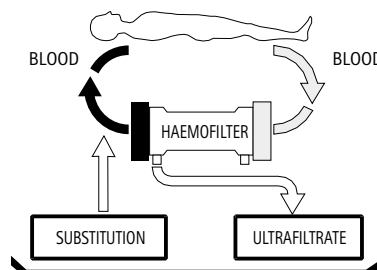
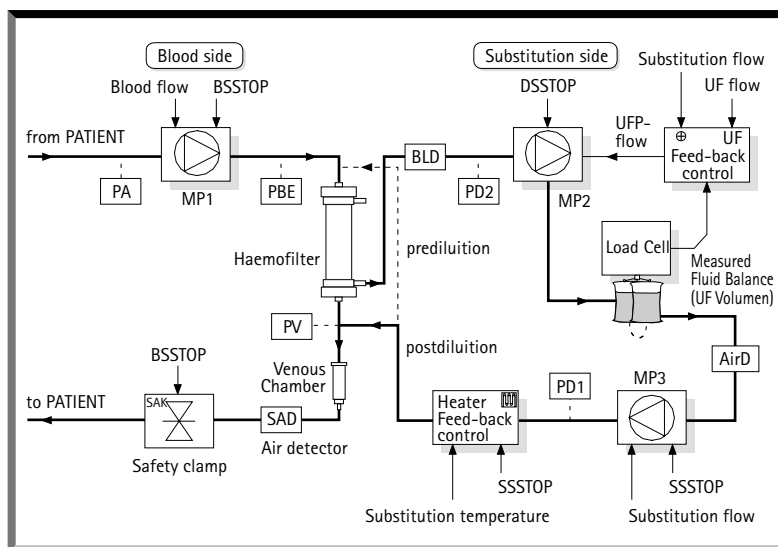


CVVHDF

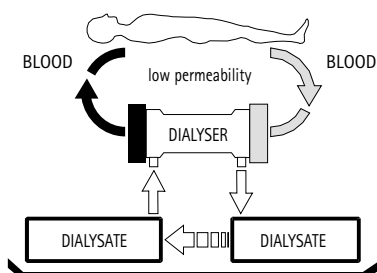
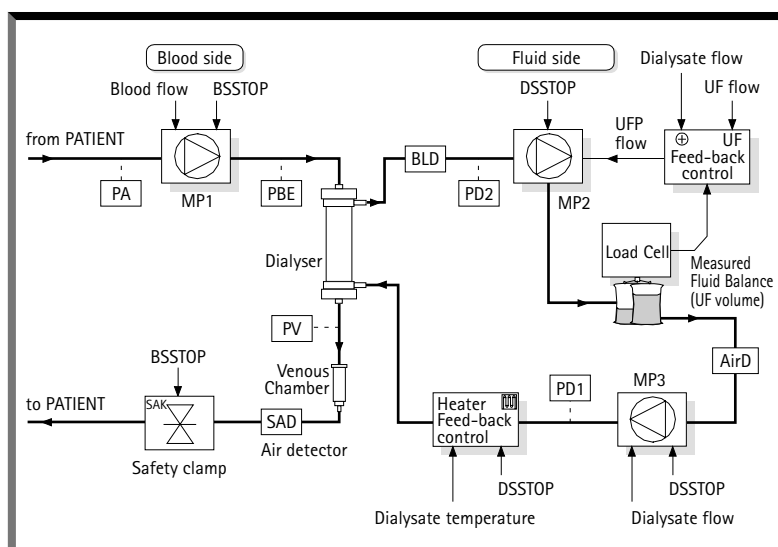
Continuous Veno-Venous High-Flux Dialysis
(Single-Pass or Recirculation)



HF Haemofiltration



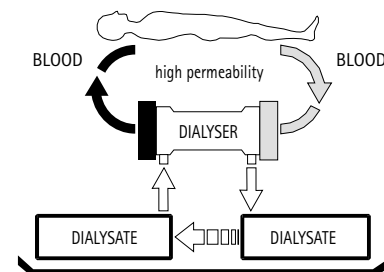
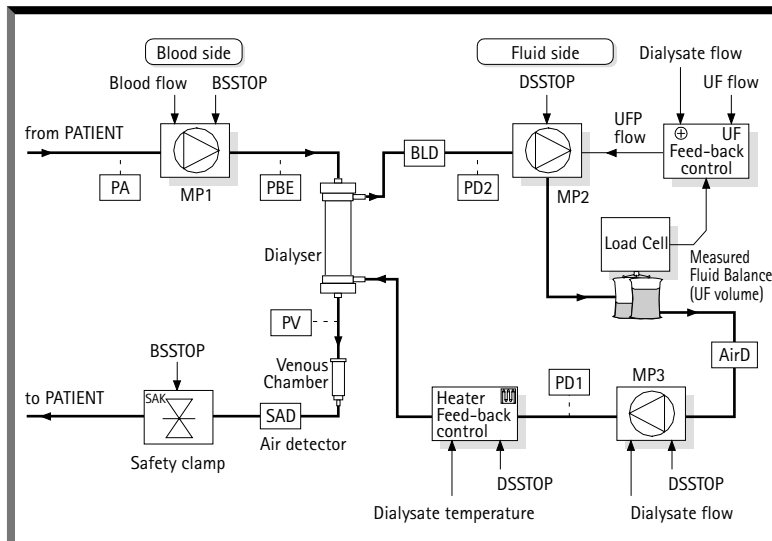
HD Haemodialysis (Single Pass or Recirculation)



HFD

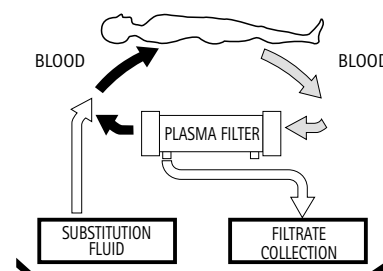
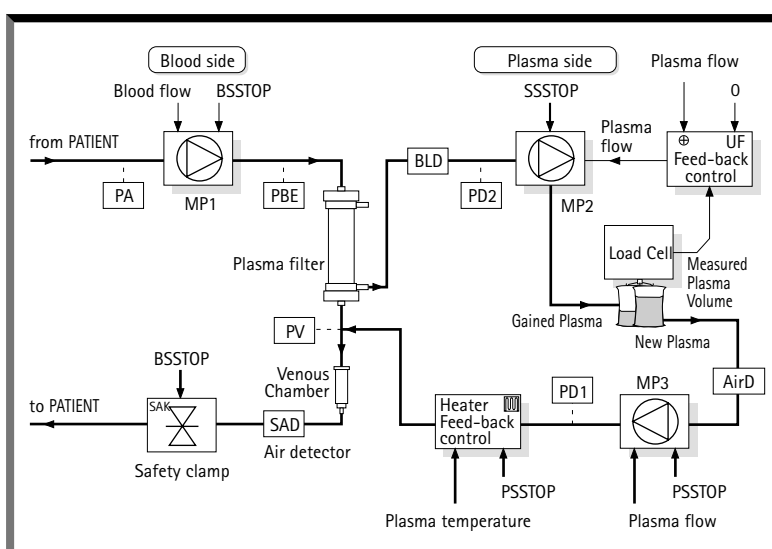
High-Flux Dialysis

(Single Pass or Recirculation)

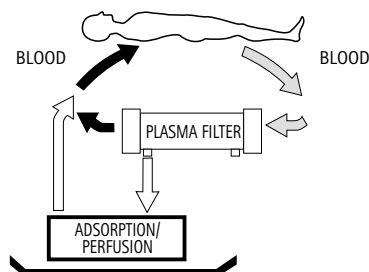
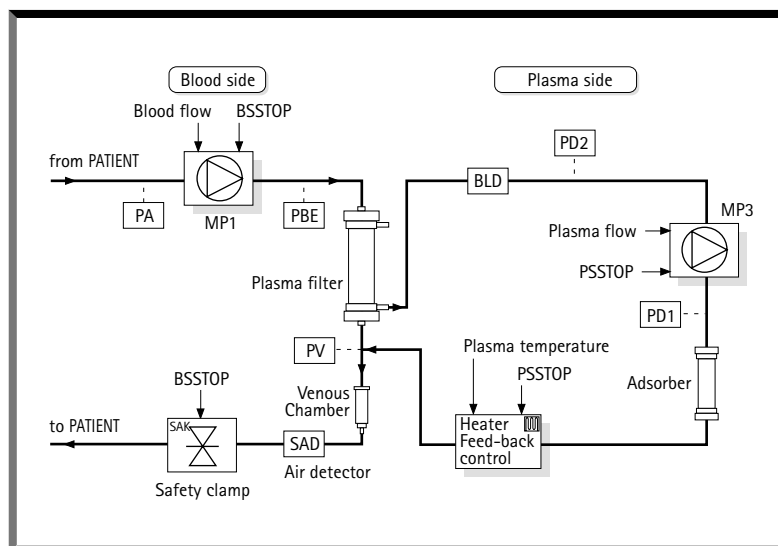


PEX

Plasma Exchange



PAP
Plasma Adsorption/Perfusion



1.3 Safety Requirements

WARNING!

The Diapact® CRRT can exclusively be operated by skilled personnel duly trained and instructed on its use according to the contents of this Operating Manual.

The Diapact® CRRT is designed and manufactured according to the requirements of the Medical Device Directive 93/42/ EEC.

The Diapact® CRRT complies with the following standards:

Constructional safety, including electrical safety:

IEC 513
IEC 529
EN 60601-1
EN 60601-1-1

Functional safety:

prEN 1441
IEC 601-1-4
IEC 601-2-16

Electromagnetic compatibility:

EN 60601-1-2

Clinical data:

EN 540