

Sistema Terapêutico 5008 Therapy System



**FRESENIUS
MEDICAL CARE**

A Vision turned into Reality

Well-designed User Interface

Touchscreen monitor 15" TFT LCD
Comes with User Guide
"Intuitively correct" user-guidance

Flexible, Easy and Safe Data Management

"Offline" with using Patient Card
"Online" with integrated network connection

Optimised Ergonomics

Workflow optimisation
Multiple automated tests during preparation
Self-initiating functions
Auto-regulation mechanisms: AutoFlux, AutoSub, etc.
ONLINE filling and rising
ONLINE bolus application and blood reinfusion

Online Haemodiafiltration as standard

The best quality of treatment available for all patients
No additional costs per treatment (when compared
with High Flux HD)

5008



5008 Therapy System Technical Data

General Data

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| Dimensions 5008 | 1620 x 480 x 720 mm (H x W x D) (depth with extended concentrate rack approx. 86 cm) |
| Weight | approx. 135 kg |

Water supply

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| Water inlet pressure | 1.5 – 6.0 bar |
| Water inlet temperature | 5 – 30 °C; for “integrated hot rinse” 85 to 95 °C |
| Max. drain height | 1 m |
| Flush | Rinse of water supply area |

Concentrate supply

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| Supply pressure | 0 to 100 mbar; 1 m suction height with Central Delivery System: 0.05 to 2.0 bar |
| Central supply | 2 central acid concentrates (option) 1 central bicarbonate (option) |

Electrical data

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| Power supply | 100 to 240 V AC \pm 10 %, 47–63 Hz |
| Current consumption | Approx. 6 A (at 230 V) at a water inlet temperature of 17 °C, Dialysate temperature 37 °C Dialysate flow: 500 ml/min |

External connections

Alarm output: potential free alarm outlet
(alternating contact max. 24 V/24 W).
LAN (RJ 45) port for data exchange with
Therapy Data Management System/Finesse®

Extracorporeal circuit

Arterial pressure monitoring

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|---------------|--------------------------|
| Display range | - 300 mmHg to + 300 mmHg |
| Accuracy | \pm 7 mmHg |
| Resolution | 5 mmHg |

Venous pressure monitoring

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|---------------|--------------------------|
| Display range | - 100 mmHg to + 500 mmHg |
| Accuracy | \pm 7 mmHg |
| Resolution | 5 mmHg |

Transmembrane pressure monitoring

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|---------------|--------------------------|
| Display range | - 100 mmHg to + 400 mmHg |
| Resolution | 5 mmHg |

Arterial blood pump

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| Blood flow range (effective) | 30 to 600 ml/min |
| Accuracy | \pm 10% |

Single-Needle system

with 2 blood pumps. Internal pressure/pressure control with
variable stroke volume (max. 50 ml)

Air bubble detector

ultrasound transmission measurement on blood line,
additional capacitive level and optical monitoring

Heparin pump

Delivery range: 0.5 to 10 ml/h
Bolus function: 1.0 up to 20.0 ml
Syringe size: 20 ml, 30 ml

Dialysis Fluid Circuit

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| Dialysis fluid flow range | |
| Selectable | 0 – 1000 ml/min (steps of 100 ml/min) |
| AutoFlow (selectable) | Automatic adaptation of the dialysate flow to the effective blood flow (factors adjustable) |
| EcoFlow | Stand-by flow of 100 ml/min (HD) during preparation and reinfusion |

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| Dialysis fluid temperature | 34 – 39 °C |
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| Dialysis fluid conductivity | |
| Range | 12.8 – 15.7 mS/cm |
| Accuracy | ± 0.1 mS/cm |

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| Sodium concentration dialysis fluid | |
| Mixing ratio | Freely adjustable e.g. 1 + 44, 1 + 34 |
| Adjustment range | 125 to 151 mmol/l, depending on the concentrate used ± 10 % of the base value |

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| Bicarbonate concentration dialysis fluid | |
| Default mixing ratio | 1 + 27.6 (others possible) |
| Adjustment range | 24.0 – 40.0 mmol/l (steps of 0.5 mmol/l) |

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| OCM® | Online Clearance Monitoring |
| Accuracy Clearance K | ± 6% |

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| BTM (Option) | |
| Temperature measurement | Accuracy ± 0.2 °C |
| Body temperature control | Allowed change rate ± 0.5 °C/h |
| Recirculation measurement | Accuracy ± 2% |

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| BPM (Option) | |
| Display range | Systole: 30 mmHg – 280 mmHg Diastole: 10 mmHg – 240 mmHg MAP: 20 mmHg – 255 mmHg |
| Accuracy | ± 3 mmHg |

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| Bicarbonate dry concentrate | bibag® |
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| Dialysis fluid filter system | DIASAFE®plus |
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| ONLINEplus | ONLINE Haemo(dia)filtration |
| Substitution rate | 25 – 600 ml/min |
| Accuracy | ± 10% |
| AutoSub | Substitution ideally matched to effective bloodflow |

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| Balancing accuracy | ± 0.1 % related to the total dialysate volume |
| Pressure holding test | Event controlled |

Ultrafiltration

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| UF rate | 0 – 4000 ml/h (in steps of 10 ml) |
| Pump volume accuracy | ± 1% |
| Parameters displayed | UF goal, UF time, UF rate, UF volume |

Blood leak detector

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| Sensitivity | <_ 0.5 ml blood/min (Hct = 25 %) flow rate 100 ml/min – 1000 ml/min |
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Disinfection and cleaning programmes***Rinse**

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| Temperature/flow | 37 °C/600 – 800 ml/min (adjustable) |
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Hot rinse (recirculation)

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| Temperature/flow | 85 °C/600 – 800 ml/min (adjustable) |
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Cleaning Sporotal® 100 (recirculation)

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| Temperature/flow | 37 °C/600 – 800 ml/min (adjustable) |
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**Heat disinfection Diasteril®/Citrosteril®
(recirculation)**

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| Temperature/flow | 85 °C/600 – 800 ml/min (adjustable) |
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Disinfection Puristeril® 340/plus (recirculation)

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| Temperature/flow | 37 °C/600 – 800 ml/min (adjustable) |
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* Various programme combinations selectable. Technical changes reserved