

Nikkiso DBB-05 Specification

The Nikkiso DBB-05 Haemodialysis Machine offers the following features. .

Technical Specification

1. Variable dialysate flow (300 – 800ml/min).
2. Variable blood flow (40 – 600 ml/min).
3. Double pump/single needle dialysis.
4. Integral heparin infusion system with flow rate range 0 - 9.9 ml/hr \pm 5% using 30ml luer lock syringes, heparin bolus delivery 0.1 – 5.0ml.
5. Variable conductivity (sodium) profiling.
6. Variable UFR control 0.10 – 4.00 l/hr (accuracy \pm 30 ml/hr).
7. Variable UF profiling.
8. Variable bicarbonate profiling.
9. Integral blood pressure monitor (further option).
10. HDF with optional balance (further option).
11. Ultra filtration control in response to BPM and BVM.
12. Heated citric acid, peracetic acid or hot water disinfection.
13. Flexible weekly disinfection programme/memory.
14. Disinfection and cleaning fluid tolerant operating area.
15. Timer controlled auto start.
16. Self safety test.
17. Touch screen user interface.
18. Connection to individual containers or central concentrate supply.
19. Connection to all known powder bicarbonate cartridges.
20. 30 minute automatic power supply back-up on mains failure.



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21. Individual wheel locks.
22. Ability to download treatment data by direct interface.
23. Durable user interface.
24. Chemical disinfect mode capable of utilizing sodium hypochlorite, peracetic acid, citric acid, clean cart.
25. Dialyser and cartridge drain facility.
26. Clock stops when treatment inactive, (programmable).
27. Memory back up of programme in event of power failure.
28. Easy cleaning of the outside of the machine.
29. Manoeuvrable.
30. CE marked.
31. Compliance to standards of electrical safety for connection to patients: BS5724 part 1 and TUV.
32. Auto turn on/off (7 day timer for disinfect).
33. Minimum service interval of 3000 hours.
34. Compatible on network computer system (further option).
35. All calibration/set up date, downloadable to PC.
36. Instruction manual included and upgraded as necessary.
37. Educational support material.
38. Clinical specialist support from supplier.
39. Technical support from supplier.
40. Pre-programmed haemodialysis treatment.



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- A white Nikkiso DBB-05 dialysis machine on a mobile cart. It features a large color touchscreen display at the top showing various graphs and data. Below the screen are two large circular ports for dialysate flow, and several smaller ports and tubes. The machine is mounted on a four-wheeled cart with a handbrake on the right side. Two IV stands are attached to the top of the machine.
41. Single pump/single needle dialysis.
 42. Intelligent syringe driver with programmable heparin pump pre-stop.
 43. True volumetric ceramic piston proportioning system.
 44. Actual total blood volume treated displayed.
 45. Integral and adjustable dialyser holder.
 46. Integral and adjustable drip stand.
 47. On-line HDF (further option).
 48. Storage of individual patient treatment parameters.
 49. Integrated service program (on screen).
 50. Dynamic TMP alarm limits.
 51. Bypass port design for disinfection of Hansen O rings.
 52. Screen angle adjustment.
 53. Paediatric and neonatal dialysis may be performed with appropriate blood tubing sets.
 54. Average electrical energy consumption during normal operation -
Max 5A at incoming water temperature 5°C, dialysate temperature 37°C, dialysate flow 500mls/min.
Max 9A in heat disinfection with 90°C and flow of 800mls/min.
 55. Reliable; The typical mean time between failures (MTBF) cannot be reliably expressed.
The machine has currently been tested at 20,000hrs with no failures.

Physical Characteristics:

Height:	46 cm
Width:	39 cm
Depth:	48 cm
Base:	49 cm (W) × 75 cm (D)
Weight (standard system):	Approximately 85 kg