



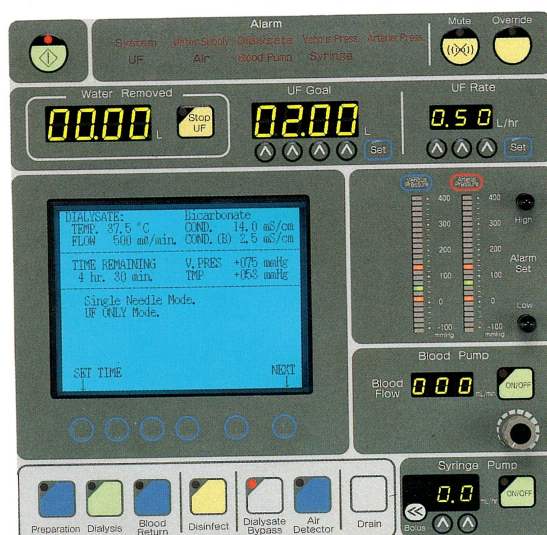
Single Patient Dialysis System

SDS-20

A new advanced dialysis machine from JMS

JMS CO.,LTD.





- ① Front Panel
- ② Syringe Pump
- ③ Blood Pump
- ④ Concentrate Ports and Disinfection Ports

- ⑤ Blood Leak Detector
- ⑥ Dialysate Connectors



- ⑦ Adjustment Box

Features

Space - Saving Technology

Utilizing state-of-the-art technology, the SDS-20 integrates all of its powerful features within a sturdy, compact body. It requires minimum floor space and allows more flexibility in the arrangement and layout of the dialysis room.



Ultra - Accurate UF Control System

Two volumetric chambers measure the precise amount of dialysate and accurately control a wide range of ultrafiltration rates regardless of whether low-, middle-, or high-flux dialyzers are used. In addition, the system recalibrates itself and compensates for any volume change in the hydraulic circuit before each start-up.

Safety and Convenience

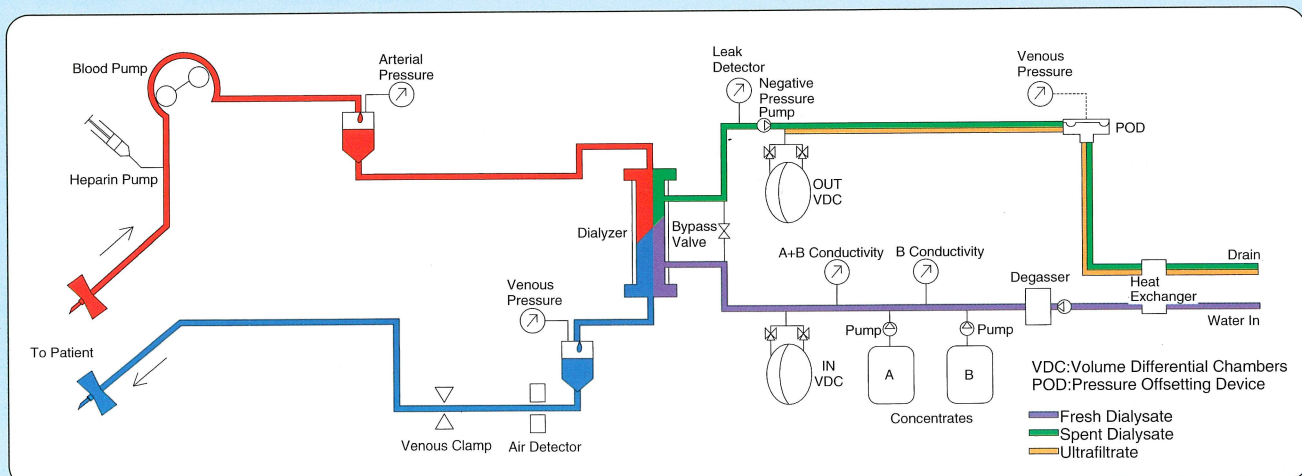
The SDS-20 embodies the perfect marriage between safety and convenience with such features as a comprehensive audiovisual alarm system with accompanying explanations on the on-screen display, color-coded dialysate and disinfection ports with specially-designed connectors to make accidental line mismatches impossible, and programmable automated disinfection/rinse procedures.

Easy Maintenance and Serviceability.

Using advanced computer-controlled technology, the SDS-20's hardware has been logically and thoughtfully designed to eliminate any and all confusing, complicated parts as well as maintenance and service problems commonly associated with conventional dialysis machines. Maintenance and operation of the SDS-20 are made easy through such design features as reliable, sturdy components, easy-to-reach parts and convenient service access areas, and a detailed on-screen display.



Flow Chart



Technical Data

General

Dimension and Weight

Height : 138cm
Width : 30cm
Depth : 36cm (Floor Space : 49×57cm)
Weight : 65kg

Power Supply

220VAC $\pm 10\%$ 50/60Hz
110VAC $\pm 10\%$ 50/60Hz
Power Consumption 1.3kVA

Water Supply

Water Pressure : 0.7~5.0kg/cm²
Water Temperature : 5~30°C
Drain Height : -0.5~+1.0m

Dialysate Circuit

Dialysate Preparation

Acetate Dialysis
Conductivity Range : 13~16mS/cm
Bicarbonate Dialysis
Conductivity Range : 13~16mS/cm
Concentrate B : BC1 2.0~3.0mS/cm
BC2 4.0~7.0mS/cm
Accuracy : ± 0.2 mS/cm

Dialysate Flow

Flow Rate : 400~600ml/min
Temperature Range : 34~40°C

Ultrafiltration Control

Volumetric
System : VDC+POD
UF Rate : 0~5.99l/hr
Accuracy : ± 30 ml/hr
Dialyzer Used : No limitation, high and low flux range

Blood Circuit

Blood Pump

Blood Flow : 50~600ml/min
(with pump insert ID of 8.5mm)
Accuracy : ± 20 ml/min

Syringe Pump

Syringe Size : 20ml (10ml with optional tool.)
Flow Rate : 0.3~9.9ml/hr (0.1ml increment)
with Bolus function

Safety Systems

Venous Pressure

Operating Range : -100~+400mmHg
Alarm Setting : Adjustable

Arterial Pressure

Operating Range : -300~+200mmHg
Alarm Setting : Adjustable

Blood Leak Detector

Method : Optical
Sensitivity : 200~1000ppm (Hct 25%)

Air Detector

Method : Ultrasonic
0.07~0.5ml at blood flow 200ml/min

Cleaning/Disinfection (Recommended)

Chemical disinfection with automatic rinse.
Disinfectant : 4~6% Sodium Hypochloride
Acid Rinse : 30% Acetic Acid



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