

I. INTRODUCTION

A. SCOPE

The manual provides system description, trouble shooting, and service procedures for the SERATRONICS DRS 4™ D/ND Dialyzer Reprocessing System. Separate manuals are available for spare parts identification and operators instructions. Also a number of supplements and appendices are available for various options.

B. PHYSICAL DESCRIPTION

FEATURES

- * Multiple blood path and dialysate path washes
- * Bleach cleaning
- * Reverse ultrafiltration
- * Ultrafiltration test
- * Total blood volume test
- * Pressure leak test
- * All dialyzers are filled with disinfectant, unless "ND" (No Disinfectant) option is chosen
- * Print hard copy of test results and dialyzer identified label
- * Single pass fluid flow that minimizes the possibility of cross contamination of blood components from one dialyzer to next.
- * Pass/fail test status indications

PERFORMANCE CHARACTERISTICS

Performance tests available on the SERATRONICS, INC. DRS4D/ND Dialyzer Reprocessing System can have the acceptance/ rejection criteria for the processed dialyzer expanded or reduced in value by use of the Data Input Terminal. Performance ranges specified below are characteristics of the machine at time of shipment from the manufacturer.

Ultrafiltration Test:

±50% of specified nominal for a new dialyzer.

Total Blood Volume Test:

±20% of specified nominal priming volume for a new dialyzer.

Pressure Leak Test:

Rejects dialyzers that have a pressure drop of more than 60 mmHg in 60 seconds at approximately 600 mmHg pressure. Some dialyzers have other limits.

GENERAL CHARACTERISTICS

Cleaning Solution:

Bleach - Sodium Hypochlorite proportioned from 5.25% reservoir for use in cleaning of dialyzer.

-or-

Hydrogen Peroxide - proportioned from 10% reservoir for use in cleaning of dialyzer.

Disinfectant:

Formaldehyde - 37% formaldehyde USP proportioned to 4.0% \pm .5% for disinfection of reprocessed dialyzer (other formaldehyde concentrations or disinfectant options are available).

Space Requirement: 50 square feet.

WATER REQUIREMENTS

Treated Water

Peak Flow: 2.0 - 2.3 l/min

Pressure: 2.1 to 5.6 kg/cm² (30 to 80 psig)

Temperature: 15 oC (59 oF) to 30 oC (86 oF)

Quality:

1. Water filtered to ten microns, nominal
2. Meets or exceeds AAMI water standards for hemodialysis.

Fitting: Male hose fitting, 3/4".

Tap Water

Flow: 6.5 l/min (1.75 GPM)

Pressure: 2.1 to 7.02 kg/cm² (30 to 100 psig)

Fitting: Male hose fitting, 3/4".

Drain

Drain height, maximum: less than 12"; check with RES if above this Drain Diameter:
1-1/2 inches maximum.

Ventilation:

Connector size: 3" ID

Maximum back pressure: 0.05" H₂O

Recommended line size: 0-10' - 3"
>10' - 4"

Normal rate: 60 CFM

ELECTRICAL REQUIREMENTS

Voltage

115 to 132 VAC rms, single phase (120 VAC nominal) 57-63 Hz

Current

Does not exceed 15 amperes. Must be connected to a circuit protected by a ground fault interrupter (GFI).

PHYSICAL CHARACTERISTICS

Height:	48 in/122 cm
Width:	30 in/76.2 cm
Depth:	28 in/71 cm
Weight (dry):	200 lbs/91 kg
Shipping Weight:	275 lbs/125 kg
Power Cord:	120 in/305 cm
Water Line:	120 in/305 cm
Drain Line:	120 in/305 cm
Vent Line:	3" ID, 11 1/2 ft/350 cm

SERVICE AND PARTS ORDERS

For service call your local Regional Equipment Specialist or the Technical Service group in Walnut Creek, California at the phone numbers listed below. For spare parts order, call Customer Service, Walnut Creek, CA.

(510) 295-0200

1-800-227-2572 (toll free)