Dialysis _

SPECIFICATIONS OF WATER TREATMENT SYSTEM FOR SUBJECT: HEMODIALYSIS MACHINES

1. FEED WATER PUMP

Qty Flow Rate 02 4 m3/ hr Max

Pressure Line Size 30-40 psi 2800 rpm

Complete 5.5 Type

2. MULTI-MEDIA FILTER

Head Value Control System Material

01 Manual FRP

Lining Vessel Size Rubber / Fiber 16" x 65"

Line Size (in /out) Head Value Type Sand Media

1" Manual Imported

01

3. GRANULAR ACTIVATED CARBON FILTER

Qty Head Valve Control System Material

Manual FRP Rubber / Fiber 16" x 65"

Vessel Size Line Size (in /out)

Head Value Type

Media Carbon Media

Lining

Manual

Activated Carbon

Imported

4. WATER SOFTENER

Head Valve Control System Material

Lining Vessel Size

Line Size (in /out) Head Value Type 01

Manual FRP

Rubber / Fiber

16" x 65"

Manual

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5. MICRON FILTERS SYSTEM

Water Flow Rat Filtration Rating 4 m3/hr Max 5/1 Micron

Filtration Type
Housing Material
Filters Dimensions

Paper Plates Types / PP

F

HDPE

Filters Dimensions No of Filters per bank 20"

6. REVERSE OSMOSIS SYSTEM (RO)

Quantity Dimensions 01

System Recovery Rejection 4"x40" 70%

97-99%

7. \$KID STRUCTURE

Compact Skid Structure Rust Proof S.S

8. RO HIGH PRESSURE PUMP

Quantity

01

Type Water Flow Pump Head Multistage 4 m3 /hr 150 PSI Max

Power

220 V, I phase, 50Hz

9. RO MEMBRANE

Quantity Type 03 4x40"

9. MEMBRANE PRESSURE VESSELS

Quantity

03

Material

FRP

Pressure rating

200 psi

10. FLOW METER

Quantity Range Type 2

As required Analog

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11. TDS METER

Quantity Manufacture

Range Type

01

Imported

0-1000 micro- 5/cm

Digital

12. PRESSURE GAUGE

Quantity Range Size

Type

02

0-350 psi 63 mm

Liquid Filled, Panel Mounting

13. LOW PRESSURE SWITCH

Quantity Range

02

40-150 psi

14. MAIN SYSTEM CONTROL PANEL

Time delayed start up. Manual / auto operation.

RAW WATER STORAGE TANK 300 GLS 16.

Qty

TREATED WATER STORAGE TANK 300GLS 17.

BOOSTER PUMP 18.

Qty

Flow Rate

4 m3 / hr Max

Pressure

30-40 psi 2800 rmp

Line Size

3/4"

WATER LEVEL SENSOR 19.

Qty

ULTRA VIOLET 36" \$\$ 22.

Qty

01

Dialysis Chair/ Couches

- Motorized Power Operated Recliner with height adjustment.
- Simple and easy release for emergency procedures.
- Quick and easy side transfer and better access to the patient.
- Providing better care for the patient, while ensuring a safer working environment.
- Three variable memorized one-touch Trendelenburg position for emergency use.
- Easily removable upholstery fro convenient cleaning.
- Safety backrest reduces the risk of crush injuries at the rear of the chair
- Central braking system for dual rear casters enhances the case of manoeurability.
- Economical Solution to address Staff and Patient safety issues.
- Dual hand controls for patients and staff.
- Adjustable head/neck rest.
- Special design backrest with lumber and lateral support.
- Weight capacity 200kg or more.

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Akntar Hussain

Jief Clinical Technician

Dialysis Department

A.T.H Abbottabad

DIALYSIS MACHINE SPECIFICATIONS:-

SINGLE PUMP DIALYSIS MACHINE WITH BATTERY BACKUP.

Required Specifications:

1. Functions

Should be able to perform Acetate, Bicarbonate, High Flux, SingleNeedle, and Sequential Dialysis (Isolate),

2. Monitoring:

Color Touch-Screen should be of minimum 10 Inches or more.

3. Profiling:

Should have Ultra-filtration, Conductivity, Sodium, and Bicarbonate Dialysate Profiles.

4. Blood Pumps

Electronic blood pump flow rate 0, 10 to 600 ml/min.

5. Heparin Pump:

0.1 to 9.9 ml/h(10 to 30ml Syringes).

6. Dialysate Temp.:

+32 to 39° C.

7. Electronic Dialysate Flow rate:

300 to 800 ml/minute with Profiling

8. Conductivity Range:

130 to 160 mEq/L

9. UF Range:

Ultra-filtration range from 0 - 4000 ml/H with Profiling

10. Arterial Pressure Meters

-500 to +500mmHg

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-500 to +500mmHg

12. Venous Pressure Meter:

+20 to +390mmHg

13. Safety:

Should have Safety function of Optical Blood Leak, Ultrasound & Optical Air Leak, Blood Lines Leak, and Self-Test.

14. Disinfections

Should have both Chemical and Heat Disinfection.

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15. Powder Bicarbonate:

Machine should have powder bicarbonate, internal automatic mixing module.

16. Disposable

The machine should accept all types of pre and post pump arterial chamber type blood tubing lines monitoring respective chamber pressure without compromise and should have no bounding disposable.

- 17. Machine should have real time hydraulic flow on screen
- 18. Machine should have built in Automatic Blood pressure monitoring.
- 19. Machine should have Endo Toxin assembly.

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