

ADDITIONAL FEATURES (OPTIONAL)

1. Tablet



2. Barcode Scanner



3. Barcode Printer



Technology for Quality with Economy

RENACLEAN PLUS

• Efficient • Economical • Easy to operate



Specifications

TECHNICAL PARAMETERS

Dimension	: 17"X20"X14"
Weight	: 38Kgs.
Voltage	: 110/220VAC,50/60Hz,2A
Power	: 140W
Leakage Current	: <0.1mA, 220V
Ambient Temperature	: 5 - 40°C
Relative Humidity	: 10 - 80%

DISPLAY

5.7" Colour LCD Touch Screen. Complete function on LCD.

PRINTER

Built in Dot Matrix Printer

WATER REQUIREMENTS

Purity	: R.O. Water as per AAMI / ANSI Standard for haemodialysis
Inlet Pressure	: 20 - 55 psi
Inlet Temperature	: 10 - 40°C
Inlet Flow	: 3 Ltr / min
Water Consumption	: 14 Ltr / cycle of 2 dialyzers
Drainage	: Located no higher than 25mm above the base of machine

DISINFECTANT

Renaclean Cold Sterilant Concentration	: Cleaning 2.5% -Affusion 3.5%
Volume Required	: 53 ml per cycle of 2 dialyzers.

DIALYZER TESTING

Pressure Test	: 340mmHg(± 40mmHg) pressure applied on the blood side for 30 sec. Pressure drop should be less than 8%/30sec. for low flux dialyzer 10%/30sec. for midflux dialyzer and 12%/30sec. for high flux dialyzer to pass the pressure test.
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Volume Fail Limit	: Automatically set at 80% of dialyzer's original priming volume.
Volume Test Range	: 0-255ml (accuracy ±3ml)

REPROCESSING TIME

12 mins for two dialyzers simultaneously

SAFETY ALARMS

Loose connector in self test
Volume test failure
Pressure test failure
Low water pressure
No Disinfectant



• Renaclean Cold Sterilant



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Manufactured By:

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ISO 13485 : 2016

ATLANTIC

**A Compact Fully-Automated Double Station
Dialyzer Reprocessing System
Reprocesses 2 Dialyzers in 12 mins.**

Technology for Quality with Economy

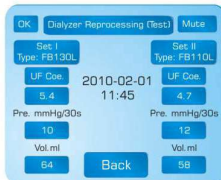
Renaclean[®] is a fully automated double station dialyzer reprocessing system with a touch screen and built in printer. It is compact, easy to use and has unique features. The reprocessing is so simple that dialyzer cleaning happens with just the touch of a button. Now you can increase the number of reuses of your dialyzer thereby cutting down the dialyzer cost per treatment.

QUALITY

Renaclean[®] subjects each dialyzer to a stringent testing process to ascertain its reusability. If the dialyzer fails even one test, it is tagged "REJECT"

Pressure Test for Membrane Integrity

During the process each dialyzer is pressure tested. Even if the smallest membrane leak is detected, the dialyzer is rejected, thereby preventing loss of blood and bacterial contamination during dialysis.



Volume Test for Dialyzer Efficiency

To further ensure quality and patient health, the dialyzer is subjected to a volume test. This ensures adequacy of dialysis by rejecting dialyzers with less than 80% bundle volume.

Printed results and Patient database for validation & analysis

The result of each reprocessing is printed by the built in printer. The printed results are used for validation of dialyzer reuse data. The database of 100 patients can be saved in a pen drive for further analysis. Printer accommodates adhesive labels for easy and convenient application on dialyzers.

Station I	
RENACLEAN + DRS	
01-01-2010	12:28
Patient Name : RAM SHARMA	
Patient ID : 9867543210	
Result : TBV: 78	
Volume Test : PASS	
Press Test : PASS	
Advice : Use: [*]	
Reject: []	

SIMPLICITY IN OPERATION

- Waterproof 5.7" Colour LCD Touch Screen ensures selection of any process with just the touch of a button
- Single Button start with Auto Self test
- Stores Dialyzer technical data for easy selection and quicker data input for reprocessing.
- Each printed result has patient name and patient ID.

Renaclean[®] ensures the safety of each patient by having a set of interlinked safety features:

Standardized process ensures uniformity in dialyzer reprocessing as compared to Manual Method.

Auto Suction and internal dilution to avoid operator's direct exposure to concentrated disinfectant.

Auto Self test ensures that all parameters of the machine are operating appropriately.

Renaclean[®] not only offers you quality that is safe for your patients, it is also economical to use.

Uses Reverse UF Technique for better cleaning, thus ensuring increased reusability of the dialyzer thereby reducing the cost of treatment.

Cleaning, Testing and Disinfecting 2 dialyzers simultaneously in just 12 minutes.

- Renaclean+ displays up to 20 alarms history for easy diagnosis of the malfunctions thereby making servicing easy and fast.
- Uses Renaclean Cold Sterilant for both Reprocessing and Disinfection.
- Easy maintenance with system rinse & disinfection cycle using Renaclean Cold Sterilant.

SAFETY



ECONOMY



ADDITIONAL FEATURES (OPTIONAL)

- Wireless connectivity between reprocessing machine and computing system.
- Barcode scanner is mounted on the reprocessing machine to scan the barcode
- 10" Tablet with touch screen is mounted on machine or wall and used for computing system
- Patient database is present in tablet's internal memory. Patient's registration, barcode printing, barcode verification etc can be done using app running on tablet. Memory is SD card or internal flash memory. Both of these are more reliable than hard disk memory.
- Barcode label printing is carried out by wirelessly connected mobile barcode label printer. No cabling or networking required. Thermal paper based label is used.
- Database reports backup can be generated and sent to hospital server.
- Tablet operation is secured using password or fingerprint.
- In case Tablet malfunctions, machine can be operated through LCD thereby drastically reducing down time.