

## 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" X 20" X 14"  
 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.

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



Efficient • Economical • Easy to operate

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

Manufactured By:

**ATLANTIC BIO MEDICAL P. Ltd.**

An ISO 13485 Certified Company

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ISO 13485 : 2016

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## Technology for Quality with Economy

RENACLEAN<sup>PLUS</sup>

Renaclean<sup>+</sup> 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<sup>+</sup> 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

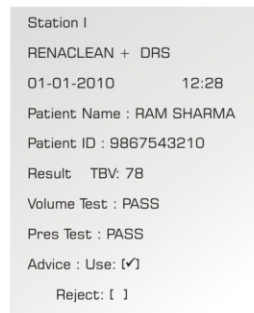
During the process each dialyzer is pressure tested. Even if the smallest membrane leak is detected, the dialyzer is rejected, thereby preventing loss of blood and bacterial contamination during dialysis.

#### 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.



### 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.

### SAFETY

Renaclean<sup>+</sup> 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<sup>+</sup> 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.

### ECONOMY



- 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.

## ADDITIONAL FEATURES (OPTIONAL)

1. Wireless connectivity between reprocessing machine and computing system.
2. Barcode scanner is mounted on the reprocessing machine to scan the barcode
3. 10" Tablet with touch screen is mounted on machine or wall and used for computing system
4. Patient database is present in tablets 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.
5. Barcode label printing is carried out by wirelessly connected mobile barcode label printer. No cabling or networking required. Thermal paper based label is used.
6. Database reports backup can be generated and sent to hospital server.
7. Tablet operation is secured using password or fingerprint.
8. In case Tablet malfunctions, machine can be operated through LCD thereby drastically reducing down time.