

HD Integra[®]

DR-1 Automatic Dialyzer Reprocessor

Features and Benefits

- Color touch screen display
- High efficiency
- Reverse Ultra Filtration
- One touch full auto system
- Regular and Eco clean option
- 5 user programmable preset TCV volume
- Auto retest for TCV function in the event of measurement error
- One Touch user TCV calibration
- Process counter for tracking dialyzers reprocessed
- Machine cleaning reminder
- Independent cleaner uptake hose
- Minimal air bubble during disinfectant filling
- Digital water inlet pressure monitoring
- Low water inlet pressure alarm
- Pre-program LH, HF and HE reprocessing mode
- Removable drip tray
- Audio and visual alarm display
- Optional process data printout

Safety features

- Chemical concentration detection during disinfectant mixing, dialyzer disinfection and sanitize process
- Low disinfectant alarm
- Low and incorrect disinfection conc. alarm
- Bubbles detection during disinfection process
- Digital membrane pressure test
- Multiple alarm screens
- Alarm log for all alarms and errors
- Detailed reprocessing on-screen datalog

System performance

- Digital TCV volume test, range 10-300ml @ ±5% accuracy
- Reprocessing time – 7-9mins depending on size of dialyzer and type of cleaning mode selected
- Leak test – negative pressure, >-250mmHg with programmable leak rate setting
- Uses common PAA based concentrated disinfectant
- Full stainless steel cabinet base construction
- Conforms to AAMI standards for hemodialysis applications



Operating requirements

Operating pressure:	20-55psi
Operating temperature:	15°C-35°C
Relative humidity:	0-85%max, non-condensation
Water quality:	RO water must conform to AAMIRD62/ANSI standards
Water requirements:	1.5-3L/min flow rate
Water consumption:	18-20l/min depending on program mode and dialyzer size
Drain requirement:	3-4L/min
Disinfectant Type:	Peracetic acid based with 4-5% PAA concentration

Technical specifications

Dimensions:	Width – 380mm
(Machine only)	Depth – 350mm
	Height – 430mm
Weight:	20kgs (approx.)
Operating voltage:	90-260VAV @ 50-60Hz, auto-voltage
Power (max):	80W
Safety test:	Conforms to IEC-61010-1 and -2
Leakage current:	< 500uA

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PRINTER OPTION

The DR-1 automatic dialyzer reprocessor is equipped with an optional printout feature to enable the machine to print out the reprocessing details of each reprocessed dialyzer. The printout eases user from having to note down the reprocessing data. The printout provides the following details:

- Date and time
- Patient or dialyzer reference (input by staff)
- Number of use for dialyzer (manual tracking, input by staff)
- Selected TCV value
- Cleaning process status
- TCV measurement value (selected and measured)
- Leak test – Pass or Failed
- Disinfection – Pass or Failed
- Process status – Process Completed and Process Failed

Using the label printout feature is simple and quick. User is required to enter patient and/or dialyzer details, select staff ID and select number of use of the dialyzer on the touch screen. The machine will register all the details will be printed on the label once the process is completed. Multiple label printing is available for each reprocessed dialyzer.

The labels used are water-proof and will not fade out due to heat or moisture.

The screenshot shows a touch screen interface titled "REFERENCE INFO". It has a text input field for "Dialyzer Ref : (Max 16 char)" containing "JAMES CONNER". Below this are two numeric input fields: "Staff's ID" with the value "8" and "No. of Uses" with the value "11". Each numeric field is accompanied by a 2x5 grid of buttons labeled 1 through 10. At the bottom of the screen are two buttons: "< BACK" and "NEXT >".

```
>>DR 1 PROCESS REPORT<<
Date : 23/ 07/ 2015 12: 03
Machine Id: 2
Reference # JAMES CONNER 12
No. of use 8
Staff's ID 3
Selected TCV 65
Cleaning Complete
TCV Measure Passed 72
Leak Test Passed
Disinfect Completed
*** PROCESS COMPLETED
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```
>>DR 1 PROCESS REPORT<<
Date : 23/ 07/ 2015 12: 12
Machine Id: 2
Reference # MORRIS JACK 32
No. of use 7
Staff's ID 2
Selected TCV 80
Cleaning Complete
TCV Measure Failed 72
Leak Test N/P
Disinfect N/P
*** PROCESS FAILED
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