



MANITOBA RENAL PROGRAM

SUBJECT <ul style="list-style-type: none"> Use of Lauer Aquaboss EcoRO Dia I LCC Reverse Osmosis System (RO). Lake of the Woods District Hospital 	SECTION 30.30 Water Treatment
	CODE 30.30.07
AUTHORIZATION <ul style="list-style-type: none"> Professional Advisory Committee, Manitoba Renal Program Nursing Practice Council, St Boniface Hospital 	EFFECTIVE DATE April 20, 2018
	REVISION DATE

PURPOSE:

- To provide instructions for system start-up and troubleshooting of the Lauer Aquaboss EcoRO Dia I LCC Reverse Osmosis (RO) System. The Reverse Osmosis System is a water treatment process whereby organic matter and electrolytes are removed from the water. The processed water is required by Hemodialysis delivery systems in the preparation of dialysate.

POLICY:

- Nurses, Technologists and HCAs working in Dialysis who have received instruction may use the Lauer Aquaboss EcoRO Dia I LCC Reverse Osmosis System. It may be necessary to contact hospital security to access the main RO room.
- The Technologist on call for the unit must be contacted as soon as possible each time an RO system alarm/error occurs.**
- To contact a Technologist:

Regular Hours:

Monday- Friday 0800h to 1615h
Health Sciences Centre
Dialysis Technology: 204-787-7717

After hours On Call:

Except Sunday
204-223-0026 (On call cell phone)

EQUIPMENT:

- Lauer Aquaboss EcoRO Dia I LCC Reverse Osmosis System
- Nurses' Station Remote Panel
- Dialysis Delivery System

A. PROCEDURE

1. Manual System Start-Up (Nurses' station remote panel)

- a. Press top left button (⏻) on the remote panel to turn RO on.
- b. The light on the button will turn green. The dialysis machines can now be turned on and used.

2. Manual System Shut-down

- a. To manually turn the RO off, press top left button (⏻) on the remote panel.

B. TROUBLESHOOTING

1. ALARM/ERROR CONDITIONS

- a. Any malfunctions of the RO system are indicated on the remote panel by a lit red LED on the alarm button (⚠) and an audible sound.
- b. The alarm can be muted by pressing the alarm button (⚠).
- c. Go to the Main RO and record the alarm/error number and description that is displayed on the Main RO display panel.
- d. **Immediately contact the Dialysis Technologist on call to report the alarm/error that has occurred.**

KEY POINTS

- In some dialysis units the RO system is programmed to turn on and off automatically at the beginning and end of each dialysis day.
- A picture of the Remote Panel can be found on page 2 of this document.
- The green light (⏻) on the remote panel (top left) will turn off to indicate that the RO is off. If the RO Auto OFF is enabled it will turn automatically off at the preprogrammed time.

KEY POINTS

- The first column of buttons refers to the RO.
- The red alarm LED remains on until the problem is resolved.
- The display on the main RO panel located in the water treatment room will also display an alarm/error number and description.
- Refer to Sec 2.0– “**Response to Alarms or Errors**”



Nurses' Station Remote RO Panel

B. TROUBLESHOOTING

KEY POINTS

2. RESPONSE TO ALARMS OR ERRORS

- a. **Contact the Dialysis Technologist (if not done prior) and go to the Main RO room.**



The Lauer Aquaboss ECORO Dia I LCC Reverse Osmosis System

- b. Record the Error or Alarm code shown on the RO display panel



- c. In order to reset the error/alarm:

- I. If the screen indicates a RESET option, then press the button below the RESET.



- II. If no RESET option available then turn the Main Power Switch to OFF, wait 10 seconds and then turn back ON.



- d. Verify Dialysis Mode is indicated on the display screen within a few minutes. If not, press the button below the DIAL option on the display. Once Dialysis Mode is displayed on the screen, dialysis machine use can commence.



REFERENCES:

Lauer Aquaboss Dia I LCC Operating Instructions, Rev. 3.1 from 01.04.2010