

PORTABLE DIALYSIS WATER SYSTEMS

PREVENTATIVE MAINTENANCE POLICIES / SCHEDULE

GUIDELINES

These recommendations are based on normal operating conditions and correspond with the O&M manual.

Certain situations or circumstances may require increased frequency. See Notes section for more information on each maintenance item.

#	MAINTENANCE ITEM	ACTIVE DEVICES									
		EON®		Millenium HX®		WRO 300 H		WRO 300		700 Series	
1.	COMPLETE LOG SHEET	D	-	D	-	D	-	D	-	D	-
2.	PRE-FILTER REPLACEMENT	1M	0.18	1M	0.18	1M	0.18	1M	0.18	1M	0.18
3.	CARBON FILTER REPLACEMENT	3M	0.25	3M	0.25	3M	0.25	3M	0.25	3M	0.25
4.	ENDOTOXIN FILTER REPLACEMENT	6M	0.18	-	-	-	-	6M	0.18	6M	0.18
5.	TOTAL CHLORINE LEVEL TEST	D	-	D	-	D	-	D	-	D	-
6.	HARDNESS LEVEL TEST	D	-	D	-	D	-	D	-	D	-
7.	AAMI WATER TEST	12M	-	12M	-	12M	-	12M	-	12M	-
8.	BACTERIA TEST	1M	-	1M	-	1M	-	1M	-	1M	-
9.	LAL TEST	1M	-	1M	-	1M	-	1M	-	1M	-
10.	RO CLEAN, CHEMICAL	AR	1.5	AR	2.0	AR	2.0	AR	2.0	3M	3.0
11.	RO DISINFECT, CHEMICAL	-	-	-	-	-	-	1W	1.5	3M	2.0
12.	RO DISINFECT, HEAT	1W	1.0	1W	2.5	1W	1.0	-	-	-	-
13.	RO PRESERVE, CHEMICAL	LTS	-	LTS	-	LTS	-	LTS	-	LTS	-
14.	MEMBRANE REPLACEMENT	-	-	-	-	-	-	-	-	-	-
15.	AIR FILTER REPLACEMENT	-	-	-	-	12M	0.18	12M	0.18	-	-
16.	PROTECTIVE EARTH TESTING	12M	0.18	-	-	3M	0.18	3M	0.18	-	-
17.	PRODUCT WATER FLOW TEST	-	-	-	-	12M	0.25	12M	0.25	6M	0.25
18.	CONDUCTIVITY TEST	3M	0.25	3M	0.25	3M	0.25	3M	0.25	3M	0.25
19.	OPERATING PANEL TEST	-	-	-	-	12M	0.18	12M	0.18	-	-
20.	CHEMICAL IN-TAKE O-RING TEST	-	-	-	-	12M	0.18	12M	0.18	-	-
21.	BATTERY REPLACEMENT	36M	0.18	-	-	12M	0.18	12M	0.18	-	-
22.	INSPECT HOSE AND CONNECTION PORTS	6M	0.25	3M	0.25	3M	0.25	3M	0.25	3M	0.25
23.	CLEAN FAN/SCREEN	-	-	-	-	-	-	-	-	6M	0.18
24.	LUBRICATE MOTOR	-	-	-	-	-	-	-	-	12M	0.18
25.	PRESSURE SWITCH TEST	-	-	-	-	-	-	-	-	12M	0.18
26.	REPLACE VALVE INTERNALS	12M	1.0	-	-	-	-	-	-	-	-

Time shown as hours, estimate per device under normal conditions; changes based on feed water, water temperature, water quality, materials, and personnel. Chemical process on the EON and WRO 300 units is semi-automated. Heat disinfection process on EON, Millenium HX and WRO 300 H is designed to be automated.

PREVENTATIVE MAINTENANCE POLICIES / SCHEDULE NOTES

NOTES

1. A log sheet should be completed every day or every time the device is used.
2. The pre-filter may need to be changed more often based on incoming water quality and system usage.
3. Carbon filter or carbon tanks may need to be exchanged more often based on incoming chlorine levels and system usage.
4. The endotoxin (final) filter is not standard of every system. It may need to be changed more often based on bacteria testing/usage.
5. Total Chlorine testing should be completed prior to every patient treatment.
6. Hardness testing may not be applicable in all areas. If a softening device is not used, then testing is not required.
7. AAMI water testing to ensure the RO is in compliance. More often may be beneficial.
8. Bacteria testing to ensure the RO is in compliance. More often may be beneficial.
9. LAL testing to ensure the RO is in compliance. More often may be beneficial.
10. RO cleaning should be done based on RO performance. As Required (AR) time includes both low/high pH cleaner, except for EON® and Millenium HX®.
11. RO disinfecting should be done after a chemical cleaning and/or as required based on RO performance.
12. Heat RO disinfecting should be completed as least once a week, but more often is acceptable. Times vary based on feed water temperature and on schedules. Time not calculated in Yearly PM hours due to automation.
13. Preserving an RO machine is based on Long Term Storage (LTS) requirements.
14. Replacement based on RO performance. Reliable incoming water quality along with RO clean/disinfect are ways to prolong membrane life.
15. Routine replacement.
16. Routine testing.
17. Routine testing.
18. Routine testing.
19. Routine testing.
20. Routine testing.
21. Routine replacement.
22. Routine inspection.
23. Routine cleaning.
24. Routine action as required.
25. Routine testing.
26. Routine replacement.



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