

# PREVENTIVE MAINTENANCE CHECKLIST ANNUAL/4000 HOUR

SERIAL NO. \_\_\_\_\_ DATE \_\_\_\_\_

MACHINE I.D. NO. \_\_\_\_\_ MACHINE HOURS \_\_\_\_\_

TECHNICIAN(S) \_\_\_\_\_ LABOR HOURS \_\_\_\_\_

See the Referenced Section of the 2008T Preventive Maintenance Procedures (part number 508033 Rev. R) for detailed instructions to perform the following:

<u>Reference Section</u>	<u>Procedure</u>	<u>Value</u>	<u>Completed By:</u>
3.1	Clean Filters and Replace O-Rings .....		_____
3.2	Replace bibag Inlet Filter and Connector Door O-Rings ..... (If Applicable)		_____
3.3	Replace Pre-UF Pump Filter.....		_____
3.4	Replace UF Pump Check Valves .....		_____
3.5	Rebuild UF, Concentrate (Acid) and Bicarbonate Pumps .....		_____
	(every 2 years or after 8000 hours if equipped with extended life pump components. Refer to Sections 1.0, 4.1 & 4.2)		
3.6	Check Ground Heater Element (N/A for 2008T BlueStar Premium).....		_____
3.7	Check High Voltage AC Connections .....	<0.2 ohms	_____
3.8	Replace Deaeration Motor Brushes.....	(every 8000 hours)	_____
3.9	Check Inlet Water Pressure Regulator .....	(Range: 18 to 20psi)	_____
3.10	Calibrate bibag Pressure Transducers.....	(If Applicable)	_____
3.11	Conduct Online Clearance Test.....	(If Applicable)	_____
3.12	Check Deaeration Pressure .....	(Range: See Table 2 on page 27)	_____
	Check Loading Pressure.....	(Range: 18 to 20psi / with DIASAFE® Plus filter 23 to 25psi)	_____
3.13	Check Flow Relief Pressure .....	(Range: 29 to 30psi / with DIASAFE® Plus filter 35 to 36psi)	_____
3.14	Test Concentrate (Acid) and Bicarbonate Pumps (N/A unless the pumps were rebuilt) ....		_____
3.15	Calibrate UF Pump.....	(Range: 0.90 to 1.10ml)	_____
3.16	Check Conductivity Calibration.....	(Range: $\Delta \pm 0.1\text{mS/cm}$ )	_____
		Machine Display	External Meter
		(Range: $\Delta \pm 0.2\text{mS/cm}$ )	_____
		TCD	External Meter
3.17	Check Temperature Calibration .....	(Range for 37°C: $\Delta \pm 0.3^\circ\text{C}$ )	_____
		Machine Display	External Meter
		(Range for 39°C: $\Delta \pm 0.3^\circ\text{C}$ )	_____
		Machine Display	External Meter
3.18	Check Volt Hi Lo Detect (N/A for 2008T BlueStar Premium) .....	(Range: 4.8 to 5.2 $\pm$ 0.2V)	_____
3.19	Check Blood Leak Calibration (N/A for 2008T BlueStar Premium).....	(Range 4.5 to 5.2V)	_____
	Check Dimness Calibration (N/A for 2008T BlueStar Premium) .....	(Range 4.0 to 6.0V)	_____
3.20	Check Arterial, Venous and TMP Calibration (N/A for 2008T BlueStar Premium) .....		_____
3.21	Check Dialysate Flow (N/A for 2008T BlueStar Premium).....	(Range @ 500ml/min: 485 to 515ml)	_____
3.22	Check Heparin Pump (N/A for 2008T BlueStar Premium).....	(If Applicable)	_____
3.23	Check Blood Pump .....		_____
3.24	Check and Calibrate Level Detector .....		_____
3.25	Check Alarm Operation and Pressure Holding Tests (N/A for 2008T BlueStar Premium)		_____
3.26	Verify pH (N/A for 2008T BlueStar Premium).....	(Range: 6.9 to 7.6)	_____
3.27	Rinse Check .....	(Range: $\geq 310\text{ml}$ collected)	_____
	Heat Disinfect Check .....	(Range: 80 to 90°C)	_____
3.28	Check Power Failure Alarm .....		_____
	Replace 9-Volt Battery .....		_____
3.29	Check Blood Pressure Module.....		_____
3.30	Inspect Dialysate Lines .....	(every 8000 hours)	_____
3.31	Final Checks .....		_____