



# ENDURA+ (EDR+) ANNUAL MAINTENANCE CHECKLIST

**NOTE:**  
TO BE COMPLETED BY A FACTORY AUTHORIZED TECHNICIAN HOLDING A VALID ENDURA+ (EDR+) CERTIFICATE OF REGISTRATION.

DATE	
TECHNICIAN	
TECH. COMPANY	

TECH CERTIFICATE #	
BOILER MODEL	
BOILER NB/SERIAL #	

**ANNUAL MAINTENANCE:**

Burner head removed and visually inspected	<input type="checkbox"/> COMPLETE
Burner head cleaned (air only)	<input type="checkbox"/> COMPLETE
Burner head reinstalled with new gaskets	<input type="checkbox"/> COMPLETE
Burner flange hardware torqued to spec (see Section 4 of IOM)	<input type="checkbox"/> COMPLETE
Low water probe(s) removed, cleaned, and reinstalled	<input type="checkbox"/> COMPLETE
Combustion air inlet filter replaced with new	<input type="checkbox"/> COMPLETE
UV scanner and heat block inspected, replace if worn	<input type="checkbox"/> COMPLETE
Direct spark ignition replaced with new and gap properly set (2500, 3000 only)	<input type="checkbox"/> COMPLETE
Oxygen sensor replaced with new	<input type="checkbox"/> COMPLETE
Special gas vent system and condensate drains inspected	<input type="checkbox"/> COMPLETE
Combustion air intake system inspected	<input type="checkbox"/> COMPLETE
Safety relief valve tested, replaced if it does not fully reseal	<input type="checkbox"/> COMPLETE
Open factory Service Bulletin(s) addressed (where applicable)	<input type="checkbox"/> COMPLETE
Software updated to the latest version (unless otherwise instructed by the factory)	<input type="checkbox"/> COMPLETE
Safety checks table completed	<i>(fill in tables below)</i>
Combustion verification completed, adjust as necessary	<i>(fill in tables on reverse side)</i>

**WATER CHEMISTRY:** *Verify water chemistry is within specified limits, correct where required*

pH (8.5-10.5)	_____
Oxygen (<250 ppb)	_____ ppb
Iron/Copper (<5 ppm)	_____ ppm
Chloride (<200 ppm)	_____ ppm
Hardness (<60 ppm)	_____ ppm
Glycol %	_____ %
Water fill pressure at the boiler outlet/supply connection (>30 psi required for glycol)	_____ psi

**CONTROLS:**

Software Version in Use _____	VERSION: _____
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**SAFETY CHECKS:** *Check all safeties below for proper operation and document the final settings.*

DEVICE	SETTING	OPERATIONAL
Low Water Safety		
Air Switch		
Low Gas Pressure Switch		
High Gas Pressure Switch		
Blocked Exhaust Switch		

DEVICE	SETTING	OPERATIONAL
High Temperature Limit		
Fuel Train Leak Test		
Blower/Premix Leak Test		
Air Filter Switch		

**COMBUSTION SETTINGS:**

FIRING POSITION:	P0 LIGHT	P1	P2	P3	P4	P5	P6	P7	P8	P9 100%
Fuel Position										
Air Position										
Blower Position										
Blower Ampere	▣	▣	▣	▣	▣	▣	▣	▣	▣	
Incoming Voltage	▣	▣	▣	▣	▣	▣	▣	▣	▣	
Supply Gas Pressure (InWC)*			▣	▣	▣	▣	▣	▣	▣	
Manifold Gas Pressure (InWC)*										
MV Downstream Gas (InWC)*			▣	▣	▣	▣	▣	▣	▣	
Fan Discharge Pressure (InWC)*			▣	▣	▣	▣	▣	▣	▣	
Analyzer O2%										
Burner Sensor O2%										
CO2 %										
CO ppm										
NOx @ 3%										
Room Ambient Temp. °F		▣	▣	▣	▣	▣	▣	▣	▣	
Combustion Air Temp. °F		▣	▣	▣	▣	▣	▣	▣	▣	
Stack Temperature °F	▣	▣	▣	▣	▣	▣	▣	▣	▣	
Stack Draft (InWC)*										
Inlet Water Temp. °F	▣		▣	▣	▣	▣	▣	▣	▣	
Outlet Water Temp. °F	▣		▣	▣	▣	▣	▣	▣	▣	
Main Flame Signal										
Pilot Signal (Where Applicable)		▣	▣	▣	▣	▣	▣	▣	▣	▣

*\* Use only a Slack Tube® Manometer or equivalent. The use of a digital manometer is not recommended.*

**OPERATING HISTORY**

Boiler Online Hours	
Boiler Run Hours	
Boiler Cycles	

*When complete, please keep this form with the boiler and store a record copy in a safe location. Accurate and complete combustion and maintenance records detailing compliance with the Installation, Operation, and Maintenance Manual must be produced for warranty consideration. Please use photocopies or consult your local Fulton Representative for additional copies of this form.*