

START-UP REPORT



DATE:	JOB NAME:
TECHNICIAN:	LOCATION:
COMPANY:	MODEL:
PHONE NUMBER:	SERIAL #:

PRE-STARTUP CHECK LIST

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| <input type="checkbox"/> NO VISIBLE DAMAGE TO UNIT | <input type="checkbox"/> INLET AIR FILTER INSTALLED AND CLEAN |
| <input type="checkbox"/> PIPING PROPERLY CONNECTED | <input type="checkbox"/> PROPER SERVICE CLEARANCES PROVIDED |
| <input type="checkbox"/> BOILER CIRCULATOR WIRED | <input type="checkbox"/> PUMP RUNNING, HEAT EXCHANGER FULL |
| <input type="checkbox"/> VENT/STACK CONNECTED | <input type="checkbox"/> GAS LINES PURGED, NO LEAKS, NO MISSING TEST PLUGS |

BOILER STARTUP SEQUENCE

Note: Locate the AA terminals and minimum hold switch in the bottom-right of the electrical panel on the main HeatNet board. Also locate the manometer test manifold in the bottom of the electrical panel.

1. Disable any external call for heat and toggle the remote/local switch to REMOTE.
2. Toggle the LOW FIRE switch to cycle the boiler then hold at trial for pilot ignition.
3. Set pressure to 3–3.5" w.c. (flame signal should read 5.0 VDC).
4. Release boiler to main flame trial for ignition.
5. Check for stable flame.
6. Record combustion and manifold pressure at minimum firing rate.
7. Jumper the AA terminals to force 100% input.
8. Record combustion and manifold pressure.
9. Remove the AA jumper to place the boiler at minimum rate.
10. Make any final adjustments on low fire.
11. Check all combustion results using a calibrated flue gas analyzer.
12. Release the LOW FIRE switch to place boiler in standby.

NOTICE

In addition to completing the Fusion/Futera III start-up report, complete the control set-up information in the rear of the HeatNet manual.

COMBUSTION ANALYSIS	MINIMUM FIRING RATE	100% FIRING RATE
GAS PRESSURE AT SUPPLY TEST PORT	INCHES W.C.	INCHES W.C.
CO ₂	%	%
O ₂	%	%
CO (PPM)	PPM	PPM
NET STACK TEMPERATURE	°F	°F
MANIFOLD PRESSURE (W.C.)	INCHES W.C.	INCHES W.C.

SAFETY TEST CHECKLIST

- FLOW SWITCHES
- AIR SWITCH
- FLAME SAFEGUARD
- LOW WATER CUT-OFF
- HIGH LIMITS

NOTICE Verify that the piping and controls ensure the boiler return water temperature does NOT drop below 140°F, 60°C. Operating at lower return temperatures is likely to cause condensation in the primary heat exchanger, resulting in corrosion and possible failure of the heat exchanger.

COMMISSIONING THE BOILER/WATER HEATER

<ul style="list-style-type: none"> <input type="checkbox"/> UNIT CYCLED MINIMUM OF 15 TIMES <input type="checkbox"/> CUSTOMER INSTRUCTED <input type="checkbox"/> ALL COVERS REPLACED <input type="checkbox"/> CUSTOMER GIVEN MANUAL <input type="checkbox"/> TARGET TEMPERATURE SET PER CUSTOMER <p>COMMISSIONED BY: _____ (SIGNATURE)</p> <p>DATE: _____</p>	<p>THE DELTA T BETWEEN THE HEATER INLET AND OUTLET IS CRITICAL TO PROPER FLOW. BEFORE YOU LEAVE THE JOBSITE, YOU MUST RECORD THE DELTA T. THIS READING SHOULD NOT EXCEED 35°F, 19.4°C, NOR BE LOWER THAN 20°F, 11.2°C.</p> <p>DELTA T = <input style="width: 100px; height: 20px;" type="text"/></p>
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ADDITIONAL NOTES AND COMMENTS
