

START-UP REPORT

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

PRE-STARTUP CHECK LIST

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| <ul style="list-style-type: none"> <input type="checkbox"/> NO VISIBLE DAMAGE TO UNIT <input type="checkbox"/> PIPING PROPERLY CONNECTED <input type="checkbox"/> BOILER CIRCULATOR WIRED <input type="checkbox"/> VENT/STACK CONNECTED | <ul style="list-style-type: none"> <input type="checkbox"/> INLET AIR FILTER INSTALLED AND CLEAN <input type="checkbox"/> PROPER SERVICE CLEARANCES PROVIDED <input type="checkbox"/> PUMP RUNNING, HEAT EXCHANGER FULL <input type="checkbox"/> GAS LINES PURGED, NO LEAKS, NO MISSING TEST PLUGS |
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BOILER START UP SEQUENCE

Note: Locate the S2 Calibration Switch and low fire hold switch in the bottom-right of the electrical panel on the main HeatNet board. Also locate the manometer pressure taps (Figures 21 & 22).

1. Check spark gap and flame rod position: (follow section "Checking, Adjustment & Operation").
2. Perform pre-start up checks and set up: (follow section "Operating Instructions"; Steps 1-10).
3. Disable any external call for heat and toggle the remote/local switch to REMOTE.
4. Ignition and low fire adjustment: Toggle the LOW FIRE switch to cycle the boiler to low fire ignition (follow section "Operating Instructions"; Steps 11-16).
5. Check flame current: (follow section "Measure Flame Current").
6. Set min % and low fire combustion values: (follow section "Operating Instructions"; Step 17).
7. Record combustion and Delta P at low fire.
8. Set max % and high fire combustion values; (follow section "Operating Instructions"; Step 18).
9. Record combustion and Delta P at high firing rate.
10. Check all combustion results using a calibrated flue gas analyzer.
11. Release the LOW FIRE switch to place boiler in standby.

NOTICE

In addition to completing the Torus Series 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 INLET PRESSURE (WC)	INCHES WC	INCHES WC
CO ₂	%	%
O ₂	%	%
CO (PPM)	PPM	PPM
NET STACK TEMPERATURE	°F	°F
AIR BOX DIFFERENTIAL (DELTA P - WC)	INCHES WC	INCHES WC

SAFETY TEST CHECKLIST

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|--|--------------------------------------|--|
| <input type="checkbox"/> FLOW SWITCHES (By Others) | <input type="checkbox"/> AIR SWITCH | <input type="checkbox"/> FLAME SAFEGUARD |
| <input type="checkbox"/> LOW WATER CUT-OFF | <input type="checkbox"/> HIGH LIMITS | |

COMMISSIONING THE BOILER

<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 COMMISSIONED BY: _____ <div style="text-align: right; margin-right: 100px;">(SIGNATURE)</div> DATE: _____	THE DELTA T BETWEEN THE HEATER INLET AND OUTLET IS CRITICAL TO PROPER FLOW. BEFORE YOU LEAVE THE JOB-SITE, YOU MUST RECORD THE DELTA T. THIS READING SHOULD NOT EXCEED 100°F, 55°C, NOR BE LOWER THAN 20°F, 11.1°C. DELTA T = <input style="width: 100px; height: 20px;" type="text"/>
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ADDITIONAL NOTES AND COMMENTS
