

START-UP OF OIL-FIRED WATER HEATERS

**FOR DETAILED INFORMATION SEE INSTALLATION & MAINTENANCE MANUAL **

- 1. Visually inspect water heater and components for damage and proper installation.
- 2. Check all electrical connections for tightness and proper voltage.
- 3. Check water heater tank to make sure it is full of water. (Remove air through T&P valve).
- 4. Pull nozzle assembly from burner and check gap settings on electrodes (see I&M).
- 5. While nozzle is removed, look inside through burner for obstructions.
- 6. Check fan rotation and purge air from oil pump by bumping motor contactor.
- 7. Check air shutter setting (guideline on burner tag).
- 8. Drill hole in vent pipe 12" to 24" from heater flue outlet but below draft regulator
- 9. (for analysis equipment).
- 10. Attach voltmeter to controller to record flame signal.
- 11. Connect a 300-psi gauge to pressure side of oil pump. Connect vacuum gauge to supply side of oil pump (15" hg maximum allowed).
- 12. Set oil pressure to pressure on data decal (refer to I&M manual for two stage burner).
- 13. Check flame signal (should be in range called for by control 14-18 VDC or 4-6 VDC if UV).
- 14. Check vent draft in stack (should be negative .02" to negative .06" W.C.).
- 15. Perform flue gas analysis after achieving water temperatures above 120°F.
 - a) Net stack temperature should be 3 00°F 400°F on high fire.
 - b) O2 should be from 4% to 7%. NOTE: Both low and high fire reading.
 - c) CO2 should be from 10.5% to 12.7%. *NOTE: Both low and high fire reading.* CO should not exceed 200 PPM.
 - d) Smoke should be less than #2.

NOTE: A complete and proper start-up includes checking the operation of all controls and limits (i.e. airflow switch, LWCO, thermostats, and modulating controls), and filling out the entire start-up report. All discrepancies should be reported to the PVI Customer Service Department (800-433-5654) from the job site and detailed on the comment section of the start-up report. Attach notes to report if needed. Also, please call if you have any questions or need assistance.



START-UP REPORT OIL FIRED NON-CONDENSING WATER HEATERS MAXIM® - TURBOPOWER®

Warning: Startup must be performed by a qualified service installer, service agency or the gas supplier.

| odel Number:Serial Number: | | | | |
|--|--|--|--|--|
| bb Name: | | | | |
| Address: | | | | |
| GENERAL INFORMATION | | | | |
| Restart? | | | | |
| WATER HEATER INSTALLATIONS | | | | |
| Type of piping connected to heater: | | | | |
| VENTING and COMBUSTION AIR | | | | |
| Vent Material: | | | | |
| Does vent contain any of these devices? Power Vent Draft Inducer Draft Regulator Flue Damper Combustion air louvers or openings? Yes; Qty: Size: No Interlocked? Yes No Have direct-ducted combustion air? Yes; duct diameter inches, Duct length feet. No Duct Material: Does duct have elbows? Yes; Qty No | | | | |



| Model Number: Serial Number: OIL SUPPLY | | | | |
|--|---------------------------|--|-----------|--|
| Type of OIL: ☐ No.1 ☐ No.2 Oil Supply P Oil Pump Outlet Pressure: PSI Bypass Re Remote Oil Pump? ☐ Yes ☐ No Day Tank | ipe Size:turn Pressure: _ | Pump Inlet Pressure/V PSI Two-pipe Return | | |
| COMBUSTION ANALYSIS | | | | |
| BURNER MODEL NO.: | BURNER SERIAL NO.: | | | |
| (For fixed rate burner, use High Fire column) | Low Fire | Mid Fire | High Fire | |
| Smoke (less than #2) | | | | |
| Carbon Dioxide CO ₂ (10-12%) | | | | |
| Oxygen O ₂ (4-6%) | | | | |
| Carbon Monoxide CO (less than 200 ppm) | | | | |
| Nitrogen Oxide NO _X (if available) | | | | |
| Vent Pressure (02" to06" W.C.) | | | | |
| Gross Vent Temperature °F | | | | |
| less Room Temperature °F | | | | |
| = Net Vent Temperature °F | | | | |
| Important: You must submit the original copy warranty will become effective on this product | t. Contact Custo | omer Service for assistanc | | |
| | | | | |
| | | | | |
| Service Company Name: | | | | |
| Service Company Address: | | | | |
| Start-up Performed By: | | Date: | | |

Customer Representative: _____ Date: _____

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