

## START-UP OF GAS-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.
- 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 *(for analysis equipment).*
- 9. Attach voltmeter to controller to record flame signal.
- 10. Check inlet static gas pressure before gas train (see rating on heater decal).
- 11. Attach manometer to manifold to read pressure (tapping closest to burner).
- 12. Turn off main manual gas valve and start burner on pilot (if burner has separate pilot).
  - a) Set pilot to give good flame signal with just enough gas to reliably light pilot.
    - NOTE: If there is no pilot, set gas pressure (guideline on burner tag).
  - b) Slowly open main gas and set gas pressure (guideline on burner tag).
  - c) Check flame signal (should be in range called for by control).
- 13. Check inlet flow gas pressure before gas train.
  - NOTE: Should meet or exceed minimum rating listed on heater decal.
- 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.
  - NOTE: Modulating burners should be checked at 25% increments.
  - a) Net stack temperature should be 3 00°F 400°F (read in stack, all units).
  - b) O2 should be from 4% to 7% (atmospheric units tested below draft diverter).
  - c) CO2 should be from 8% to 10% (atmospheric units tested below draft diverter).
  - d) CO should not exceed 200 PPM (atmospheric units tested below draft diverter).

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 GAS FIRED NON-CONDENSING WATER HEATERS

Atmospheric - MAXIM® - TURBOPOWER®

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

GENERAL INFORMATION    Restart?   Yes	odel Number:Serial Number:					
Restart?   Yes   No	ıme:					
Restart?   Yes   No	SS:					
Primary operating voltage:VAC						
Type of piping connected to heater:	nary operating voltage:VAC Voltage from neutral to earth ground: (should be zero)  rmostat Setting: °F Thermostat Setting: °F Hi-Limit Setting °F					
Is there a check valve in the supply water piping?	WATER HEATER INSTALLATIONS					
Vent Material: Vent Type: ☐ Through-the-roof ☐ Through Sidewall  Vent Diameter: inches; Vent Length: feet Does vent have elbows? ☐ Yes; Qty ☐ No  Does vent have condensate drain? ☐ Yes ☐ No	Is there a check valve in the supply water piping?					
Vent Diameter: inches; Vent Length: feet Does vent have elbows?	VENTING and COMBUSTION AIR					
	nt Diameter: inches; Vent Length: feet Does vent have elbows?					
Does vent contain any of these devices?	ve direct-ducted combustion air?	No				



Model Number:	Serial	Number:			
GAS SUPPLY					
Type of gas: Natural LP  Inlet Static Gas Pressure: "W.C. (14" W.C. r  Inlet Flow Gas Pressure: "W.C. (see data la  Combination Gas Pressure Switch Setting: High_	maximum) abel)	oe Size: inches	5		
col	MBUSTION ANAL	YSIS			
BURNER MODEL NO.:	BURNE	R SERIAL NO.:			
(For fixed rate burner, use High Fire column)	Low Fire	Mid Fire	High Fire		
Pilot Gas Pressure					
Manifold Gas Pressure					
Carbon Dioxide CO <sub>2</sub> (8-9%)					
Oxygen O <sub>2</sub> (5-7%)					
Carbon Monoxide CO (less than 200 ppm)					
Nitrogen Oxide NO <sub>X</sub> (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  Comments:	. Contact Custom	er Service for assistanc	e at 1-800-433-5654.		
Service Company Name:		Phone:			
Service Company Address:					
Start-up Performed By:		Date:			

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