

START-UP OF POWER VT® WATER HEATERS OR BOILERS

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

WARNING: These startup instructions are prepared for a qualified service installer, service agency or gas supplier and require and rely on the experience and training of these qualified gas appliance technicians to be safely completed. Attempting to follow these instructions without such training and experience can result in property damage, exposure to hazardous materials, personal injury or death.

- 1. Check the water heater tank to make sure it is full of water. (Remove air through T&P valve)
- 2. Remove enclosure panel cover on the water heater to expose control circuit. A wiring diagram, included in this packet, will show the controls used in our circuitry.
- 3. Visually check that all components are intact and no damage has occurred during transit.
- 4. Check all connections within the control cabinet. A loose connection could cause intermittent shutdowns.
- 5. Check flue gases with an electronic flue analyzer to make final settings of gas pressure regulator.
- 6. The readings need to be taken from a hole in the vent several inches downstream of the fan outlet connection.
- 7. Insert 0-6" W.C. manometer into the test opening in the vent. Pressure in stack should not exceed 2" W.C.
- 8. When water in tank is above 120°F, insert analyzer or O₂ testing in test opening; take O₂ reading in percentage.
- 9. Increase manifold gas pressure at the main gas pressure regulator taking O_2 reading at each adjustment of gas regulator until optimum O_2 % (5-7%) is reached. If O_2 % decreases, reduce the gas pressure to last reading where the greatest reading is achieved.
- 10. CO should not exceed 200 ppm. A reading greater than 200 ppm indicates lack of air. Reduce manifold gas pressure slightly and take readings until CO is within proper range. Optimum reading is no CO.
- 11. If manifold pressure was changed during startup, take a final CO and O₂ reading.
- 12. Record CO_2 and NO_x if applicable. (See I&M if NO_x measurement is required).
- 13. Insert vent temperature gauge in test opening and read gross vent temperature; maximum gross stack is to be 250°F. If an excessively high gross vent temperature is recorded, consult the factory.
- 14. Check each operating and limit control to be sure they function properly by lowering and raising the temperature setting on each of the controls, causing burner to cycle on and off.
- 15. NOTE: During the initial firing of the burner, smoke that is not related to the burner will be emitted from the heater. This is normal during "burn in" and could possibly continue for several hours.
- 16. Complete the attached startup report.

Important – Contact PVI Customer Service, 800-433-5654, if any recommended setpoint or analysis reading falls outside of the recommended ranges before completing startup.



START-UP REPORT POWER VT® WATER HEATERS OR BOILERS

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

Model Number:	Serial Number:	-					
Job Name:		_					
Address:		_					
GENERAL INFORMATION							
Primary operating voltage su Thermostat Setting:°I	Installation is: New Replacement/Renovation Indoor Outdoor Ply: VAC Voltage from neutral to earth ground: (should be zero Thermostat Setting: F Hi-Limit Setting F bed to a suitable drain? Yes No						
BOILER INSTALLATIONS (Closed Loop Heating System)							
Boiler water supply and return piping size Is there a Primary (boiler bypass) loop?							
WATER HEATER INSTALLATIONS							
·	upply water piping?						



Model Number:		Serial Number:						
VENTING and COMBUSTION AIR								
Vent Material:								
GAS SUPPLY								
Type of Gas: Natural LP Inlet Static Gas Pressure: "W.C. (14"W.C. maximum) Gas Supply Pipe Size: Inlet Flow Gas Pressure: "W.C. (see data label) Combination Gas Pressure Switch Setting: High "W.C. Low "W.C.								
COMBUSTION ANALYSIS								
		Heaters	Boilers					
			1 st Stage	2 nd Stage				
	Pilot Gas Pressure							
	Manifold Gas Pressure							
Carbon Dioxide CO ₂ (8-9%)								
Vent Pressure (+.25" to + 2.0" W.C.)								
	= Net Vent Temperature °F							
Important: You must submit the original copy of the completed form to your PVI representative before the warranty will become effective on this product. Contact Customer Service for assistance at 1-800-433-5654.								
Service Company Name:			_ Phone:					
	ress:							
-	Start-up Performed By: Date:							
Customer:	e No.:		Date:					

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