START-UP FORM FOR NON-CONDENSING WATER HEATERS

Warranty coverage begins from the date of shipment. A Start-Up form must be submitted **within 14 days of start-up to verify ship date and maintain accurate records** to the PVI Customer Care Department. Please include both the ship date and start-up date. Start-Up must be performed by qualified personnel.

PVI CUSTOMER CARE DEPARTMENT

PVI Industries LLC
425 W. Everman Pkwy
Suite 101
Fort Worth, TX 76134

Phone: 1-800-433-5654
Email: PVI-CustomerCare@wattswater.com
Web: www.pvi.com

This Equipment Start-Up Form can also be completed and submitted electronically via our website at www.pvi.com. You will find it under the Service and Support menu, e-Forms section.

Ship Date:		**Start-Up Date:**		**Report Type:**	Original Start-Up ☐ Service Call ☐
Model Number				**Serial Number:**	
Installation Job Name					
Installation Address					
Installation Type:	New ☐ Repl. ☐ School ☐		Lodging ☐ Hospital ☐ Restaurant ☐	Other ☐	

PRE START-UP CHECKLIST

Inspect the unit for the following points as applicable and refer to the product Installation & Maintenance Manual prior to Start-Up. Note any deficiencies in the space provided at the end of the report.

GENERAL	(Y / N / NA)
Is the electrical disconnect set to the "Off" position?	
Is the unit damaged or are there any missing parts?	
Is there adequate clearance for proper operation & maintenance?	
Has the ductwork been properly connected and complete?	
Have all shipped loose parts been installed? (sensors, hoods, filters)	
Are all piping complete, connections tight, leak free and damage free?	

WATER SYSTEM	(Y / N / NA)
T&P relief valve(s) piped to a suitable floor drain?	
Expansion relief in the cold-water supply?	
Water softener on the cold-water supply?	
Mixing valve on the hot water supply?	
Is there a building recirculation loop piped to the water heater?	

BUILDING MANAGEMENT/AUTOMATION	(Y / N / NA)
Gateway installed?	
EMS Discrete Interface (Enable, Disable, Remote On-off)?	
EMS Communication Interface (Modbus, BACnet, etc.)?	

EMS connected to which field access terminals:		Field Wire Gauge:	
EMS Brand (JCI, Siemens, etc.):			

START-UP FORM FOR NON-CONDENSING WATER HEATERS (cont.)

ELECTRICAL & CONTROL REQUIREMENTS	(Y / N / NA)
Does the main power supply comply with the unit's nameplate specifications?	
Is the unit properly wired to an electrical disconnect or breaker?	
Are terminal screws and wires connected and are tight?	
Is voltage from Terminal L2 (Neutral) to the Ground Lug on the tank zero (0)?	

Nameplate Voltage	V:		Ø:		Hz:	
Measured Voltage (unit off)	V:		Ø:		Hz:	
Measured Voltage (unit on)	V:		Ø:		Hz:	

GAS AND/OR OIL SUPPLY				(Y / N / NA)
Type of Gas (NAT / LP):		Gas Line Size and Material:		
Is there an intermediate lockup type gas regulator on the inlet gas supply?				
Is this gas regulator externally vented?				
Distance from gas regulator to heater (ft.)				
Static Inlet Gas Pressure (in. WC:)		High Gas Pressure Switch Setting (in. WC):		
Flow Inlet Gas Pressure (in. WC):		Low Gas Pressure Switch Setting (in. WC) :		
Type of Oil:	No. 1 ☐	No. 2 ☐	Oil Supply Pipe Size:	
Oil filter or strainer installed on the oil supply line to the burner?				
Two-pipe return system?				
Oil supply line shut-off valve installed?				
Oil Day Tank Lift in Feet:				

COMBUSTION AND VENTILATION AIR		(Y / N / Check)
Vertical Direct Vent	(two pipe vertical termination)	
Horizontal Direct Vent	(two pipe sidewall termination)	
Vertical Vent with Sidewall Air	(single pipe vertical termination with single pipe combustion air supply)	
Vertical Vent with Room Air	(single pipe vertical termination)	
Horizontal Vent with Room Air	(single pipe sidewall termination)	

Air Inlet Duct Dia. (in.):		Air Inlet Duct Material:		Total Eqv. Length (ft.):	
Is there a powered combustion air device, damper, or louver system?					
Which heater terminals is the powered combustion air device connected to?					
Is direct-duct combustion air combined with other units?					
Common duct size and length:			Number of combined units:		

Flue Vent Dia. (in.):		Flue Vent Material:		Total Eqv. Length (ft.):	
Is there a powered draft device in the flue system?					
Which heater terminals is the powered draft device connected to?					
Is the flue vent combined with other units?					
Common vent size and length:			Number of combined units:		

START-UP FORM FOR NON-CONDENSING WATER HEATERS (cont.)

BURNER COMBUSTION & ADJUSTMENT (For fixed rate burners, use High Fire Column)					
Burner Model No.:		**Burner Serial No.:**		**LOW FIRE**	**HIGH FIRE**
Operating Temperature Set Point (°F):					
Pilot Gas Pressure (in. WC):					
Manifold Gas Pressure (in. WC):					
Vacuum Reading at Oil Pump Inlet (H.G.):					
Oil Nozzle Supply Pressure (PSI):					
Oil Nozzle By-Pass Pressure (PSI):					
Carbon Dioxide CO2 (8.0 - 9.0 % NAT / 9.5 - 10.5 LP / 10.5% - 12.7% Oil):					
Oxygen O2 (5% - 7% NAT / 2% - 4% LP / 4% - 7% Oil):					
Carbon Monoxide CO (should not exceed 200 PPM):					
Smoke Number (less than #2):					
Nitrogen Oxide NOx (%):					
Vent Pressure (Range of negative 0.02 in. WC to negative 0.06 in. WC):					
Vent Pressure – Common Venting (must be assisted venting, maximum negative 0.25 in. WC)					
Net Vent Temperature (°F) - Gross vent temp minus ambient air temp.:					

NOTE: The information on this form verifies the operation of the PVI product only. This does not imply other system components or overall system operation is certified. The designated commissioning agent or installing contractor should perform ancillary equipment component and system verification.

COMMENTS

START-UP FORM FOR NON-CONDENSING WATER HEATERS (cont.)

Start-up Performed By					
Company:					
Address:					
City:		**State:**		**Zip:**	
Email:		**Phone:**			
Name:					

Start-up Accepted By					
Company:					
Address:					
City:		**State:**		**Zip:**	
Email:		**Phone:**			
Name:					