

START-UP FORM FOR TURBOPOWER®99 WATER HEATERS



A Start-up Form must be completed for each unit installed on site. All completed Start-Up Forms must be returned to the PVI Customer Care Department **within 21 days from the date of Start-Up to activate warranty**. Start-up must be performed by qualified personnel.

PVI CUSTOMER CARE DEPARTMENT

| | |
|--|---|
| PVI Industries LLC 3209 Galvez Ave. Fort Worth, TX 76111 | Phone: 1-800-433-5654 Email: customercare@pvi.com Web: www.pvi.com |
| * This Equipment Start-up Form can also be completed and submitted electronically via our web site at www.pvi.com . You will find it under the Service and Support menu, e-Forms section. | |

| | | | | | | | |
|-------------------------------|-----|-----------------------|-------------------|---------|----------|------------|-------|
| Date: | | Report Type: | Original Start-Up | Service | | | |
| 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 the condensate trap installed and positioned properly? | |
| Is there a building recirculation loop piped to the water heater? | |
| Is the building return connected to the dedicated mid-tank fitting at the rear of the tank as required? | |

| 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 TURBOPOWER® 99 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 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) : | | |

| 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) | | | | | |
| Concentric Vent Vertical | (single pipe vertical termination) | | | | | |
| Concentric Vent Horizontal | (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? | | | | | | |
| The powered combustion air device is connected to which heater terminals? | | | | | | |
| 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? | | | | | | |
| The powered draft device is connected to which heater terminals? | | | | | | |
| Is the flue vent combined with other units? | | | | | | |
| Common vent size and length: | | | Number of combined units: | | | |

| BURNER COMBUSTION & ADJUSTMENT | | High Fire |
|---|--|-----------|
| Operating Temperature Set Point (°F): | | |
| Carbon Dioxide CO2 (9% - 10%): | | |
| Oxygen O2 (3% to 5%): | | |
| Carbon Monoxide CO (should not exceed 200 PPM): | | |
| Nitrogen Oxide NOx (%): | | |
| Vent Pressure – Individual Venting (Maximum + 2 in. WC): | | |
| Net Vent Temperature (Maximum 160°F) - Gross vent temp minus ambient air temp.: | | |

