

# prestige Fully Condensing Water Boiler



## Solo 250 Specification

### I. General Requirements

- A. Furnish and install \_\_\_\_\_ (qty) gas fired Solo 250, fully condensing, microprocessor electronic controlled boiler with stainless steel premix burner and stainless steel heat exchanger. Water content 4.1 gallons. Product features and standard equipment listed in Section II.
- B. Electrical supply at 110 volts.
- C. Natural / Propane Gas Pressure: 5" w.c. minimum during flow conditions to burner with negative pressure gas valve and variable speed blower to precisely control the fuel/air mixture to provide modulating boiler firing rates for maximum efficiency.
- D. There shall be no banding material, bolts, gaskets or "O" rings in the header configuration.
- E. Boiler to be received with completed wiring and factory assembled in original, undamaged, packaging.
- F. The manufacturer shall verify proper operation of the burners, all controls and the heat exchanger by connection to water and venting for a factory fire test prior to shipping.
- G. All installation work to be performed in accordance with manufacturer's technical literature.
- H. Boiler to be installed off the floor on the wall with provided wall mounting bracket. Special boiler floor stand required for floor installations. Wall shall be adequate enough to support weight of boiler plus fluids (180 lbs gross weight). Near boiler piping to be installed in accordance with engineering plans.
- I. All venting and exhaust through 3" (up to 20 feet) or 4" (up to 60 feet) plastic PVC, CPVC or stainless steel piping, sidewall or roof penetrations.
- J. All electrical and gas piping to be installed in accordance with local codes. Proper permits shall be pulled in accordance with local codes.
- K. Boiler is manufactured at ISO 9001 certified facility.
- L. Boiler complies to ANSI Z21.13b and CSA 4.9b.

- M. Boiler holds the ASME "H" stamp.
- N. Boiler meets the requirements of the DOE Energy Star Program.

### II. Product Features and Standard Equipment

- A. Factory tested with limited 10 year warranty.
- B. Stainless steel heat exchanger with self cleaning flue ways (alloy 439).
- C. Negative pressure gas valve and variable speed blower.
- D. 30 PSI Pressure relief valve.
- E. High limit temperature safety control.
- F. Outdoor temperature reset control.
- G. Boiler water supply temperature maintained eliminating need for auxiliary mixing water control.
- H. Domestic hot water priority and freeze protection.
- I. Digital display, programmable controller with information center / codes.
- J. Drain and air purging valves.
- K. 24 volt terminal strip with removable jumpers for manual reset or automatic reset.
- L. Automatic low water cutoff feature.
- M. Boost feature for low temperature startups.
- N. Pressure and temperature gauge.
- O. Condensate drain assembly.
- P. 24 Volt terminal strip with removable jumpers for manual or automatic reset of external controls.

Project: _____	# _____	Bid Date: _____
Engineer / Design: _____	Location: _____	
General Contractor: _____	Installing Contractor: _____	
Special Notes: _____		

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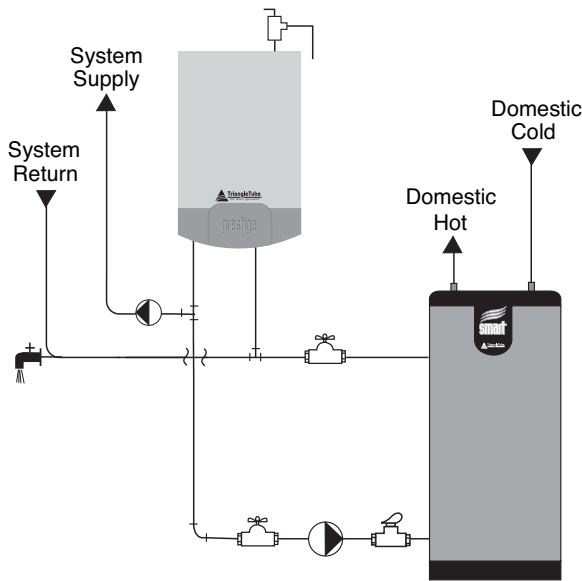
## Technical Specifications Solo 250

### Performance Specifications

Boiler Model	Fuel	Input Modulation MBH	AFUE	DOE Heating Capacity MBH	Net I=B=R MBH	Water Volume Gal.
SOLO 250	Natural Gas / Propane	65 to 245	95%	226	192	4.1

### Connections / Dimensions / Data

Boiler Model	Supply / Return Connections	Gas Connection	Air Vent Diameter	Dimensions	Weight (Empty)
SOLO 250	1 1/4"	3/4"	3" or 4"	16" x 20" x 35 1/2"	142 Lbs



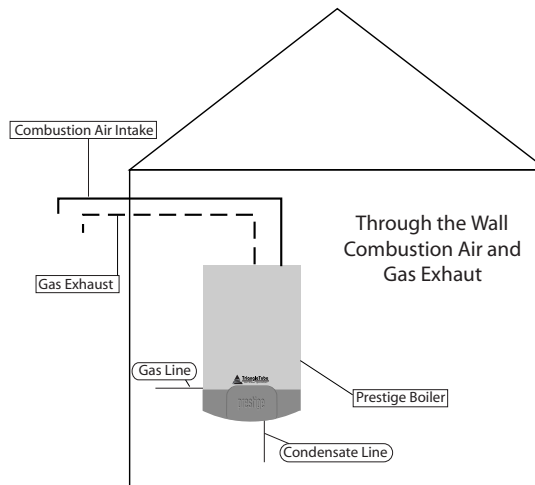
### Prestige Boiler with Indirect Domestic Hot Water Tank

System requires additional circulator for direct feed from boiler to indirect domestic hot water tank. All control wiring included with boiler. Domestic circulator wires directly to boiler panel. Priority control for domestic hot water with boiler firing at 100% capacity during domestic hot water heating.

Boiler automatically returns to outdoor temperature reset for central heating. **No mixing valves required.** Circulator(s) for central heating required to accommodate heating load. Performance graphs are provided for system commissioning. Low temperature heat emitters such as radiant floor heating allow for the greatest boiler efficiency.

### Venting Options

Both sidewall and roof venting are permitted with 3" or 4" PVC, CPVC or stainless steel piping. Proper distances must be adhered to from building openings and between the vent and exhaust pipe. Pipe runs up to 20 total feet for 3" and 60 total feet for 4" are allowed. This includes the rise and run with each elbow using 5 feet of run.



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