

# prestige

## Fully Condensing Water Boiler



# TriangleTube

## Engineering Submittal

### Prestige Solo 175



#### Prestige Solo Features

- Light weight construction for wall mounting
- Approved for zero clearance to combustibles
- 3” or 4” PVC, CPVC, PP, or AL29-4C venting up to 100 equivalent feet
- Limited 10 year warranty on heat exchanger

#### Approvals

- 96% AFUE Efficiency
- ENERGY STAR Qualified
- ANSI Z21.13 and CSA 4.9 Boiler Standards Compliance
- ASME Boiler Certification – ASME “H” Stamp
- Low NOx operation exceeding SCQMD 2012 regulations

#### Stainless Steel Fire Tube Heat Exchanger

- 439 Stainless Steel heat exchanger construction
- Low pressure drop minimizes circulator size
- High water content provides stable temperature control
- Self cleaning flue ways reduce maintenance
- Suitable for use with propylene glycol up to 50% concentration.

#### TriMax Control System

- Graphical display with 6 navigation buttons
- EZ Setup allows quick and easy boiler settings adjustment
- Logging function records sensor readings for system optimization and troubleshooting
- Lockout screen includes a text description with basic troubleshooting information
- Outdoor temperature reset to maximize efficiency
- Two space heating call inputs with independent outdoor reset curves
- Domestic hot water priority with optional time-out
- Integrated cascade control for up to 6 Prestige boilers
- 0-10 VDC Modulation input
- Modbus building management system (BMS) interface
- Warm weather shutdown option
- Optional boiler freeze protection
- Capability to control up to 4 circulators
  - Central heating (CH) circulator
  - Domestic hot water (DHW) circulator
  - Auxiliary boiler circulator
  - System circulator

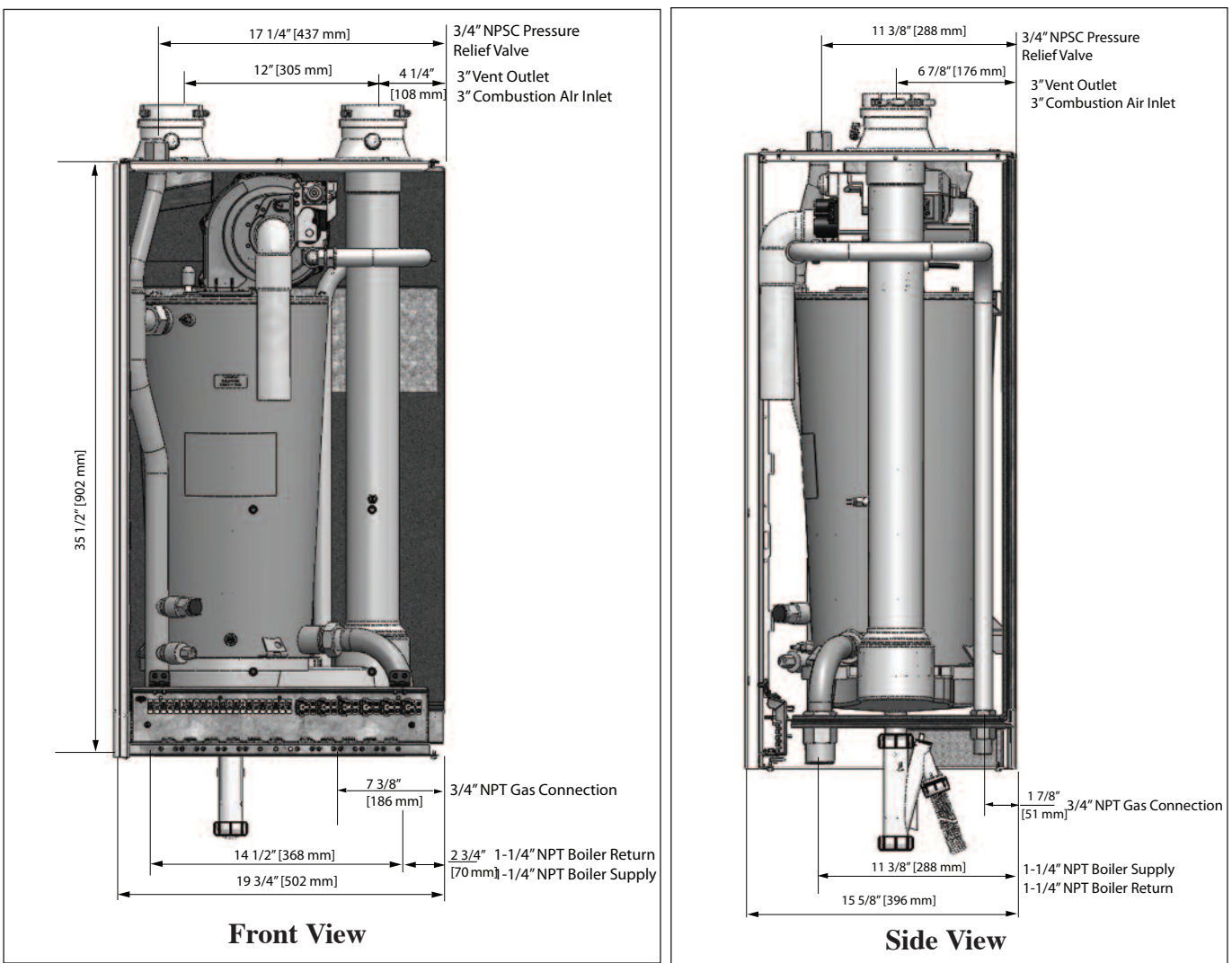
#### Standard Equipment

- Stainless steel premix burner
- Direct spark ignition with variable speed blower
- Full modulation from 25% to rated input
- Automatic air vent
- ASME 30 PSI pressure relief valve
- Integrated pressure and temperature gauge
- Outdoor temperature sensor
- Automatic low water cutoff feature
- High temperature limit safety control
- Line voltage terminal strip with individual fuses
- Low voltage terminal strip with removable jumpers for manual or automatic reset limits
- Swing down control panel for easy access and servicing
- Alarm contact
- Polypropylene condensate pan and internal flue pipe
- Polypropylene vent/air connections with test ports

Project / Location: \_\_\_\_\_ Date: \_\_\_\_\_

Consulting Engineer / Architect: \_\_\_\_\_

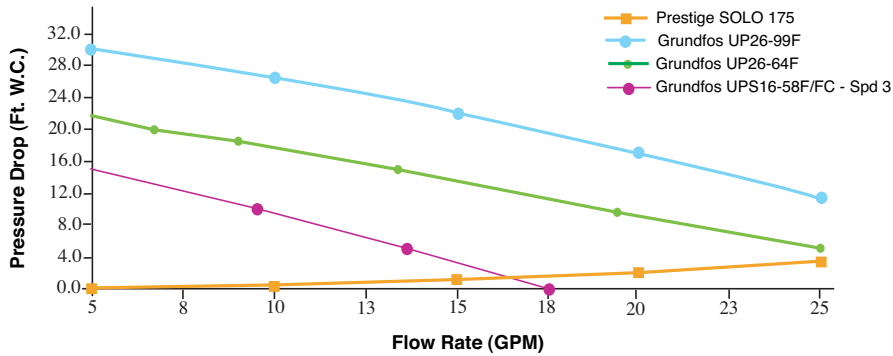
Mechanical Contractor: \_\_\_\_\_



### Boiler Specifications

Model	Fuel	Input Modulation (MBH)	AFUE	DOE Heating Capacity MBH	Net I=B=R	Boiler Water Volume (gal)	Supply Return Connection	Gas Connection	Vent/Air Diameter	Weight Lbs
PT175	Natural or Propane Gas	50 - 170	96%	154	134	4.6	1 1/4"	3/4"	3"	131

### Pressure Drop Curve with Grundfos Circulators



Delta T	GPM	Available System Head (Feet)		
		UPS15-58F/FC	UP26-64F	UP26-99F
20	13.4	4.3	13.9	22.5
30	9.0	10.3	18.1	26.9
40	6.7	13.1	19.8	28.8