


# prestige

## Fully Condensing Water Boiler



# TriangleTube

## Engineering Submittal Solo 110

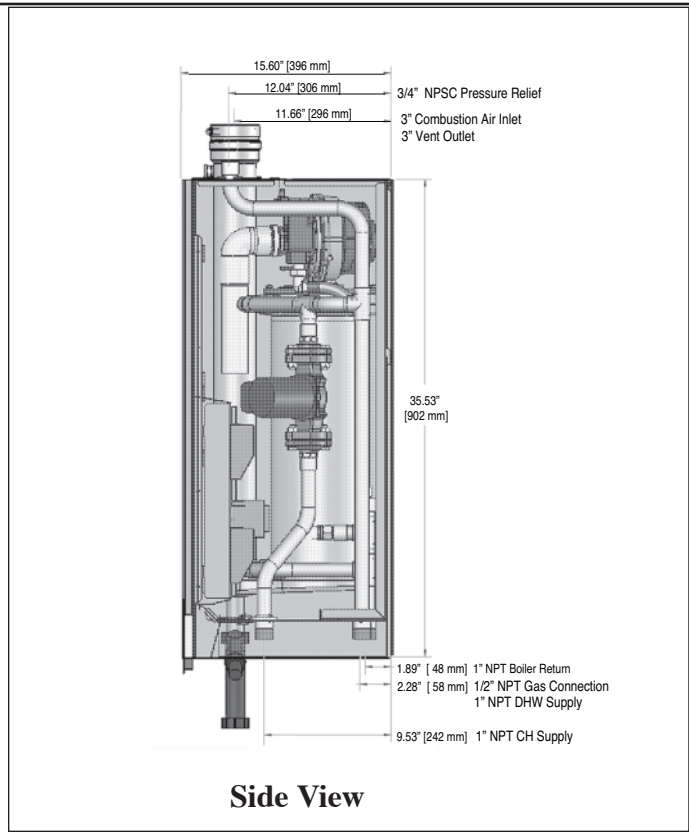
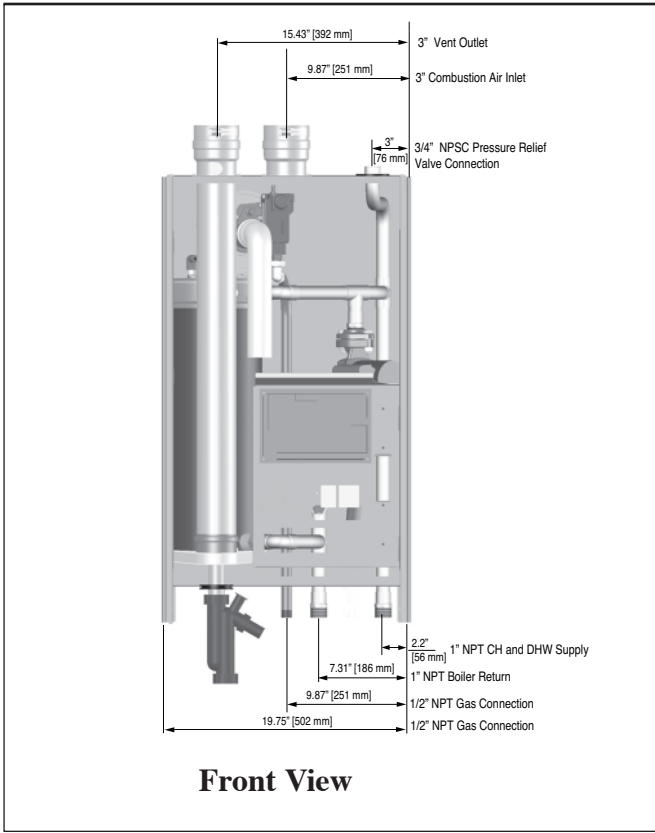


- Low NOx operation exceeding SCAQMD 2012 regulations
- Digital display control panel
- Use of 3" PVC, CPVC or AL29-4C pipe for vent and air up to 60 equivalent feet each or 4" up to 100 equivalent feet each (total length and fittings – each 90° elbow equals 5 feet and each 45° elbow equals 3 feet)
- Limited 10 year warranty
- Boost feature for low temperature startup
- Light weight construction for wall mounting
- Standard equipment:
  - ASME 30 psi pressure relief valve
  - pressure and temperature gauge
  - high limit temperature safety control
  - outdoor temperature reset control
  - 3 speed flanged circulator prepped and prewired
  - air vent
  - 24 volt terminal strip with removable jumpers for manual reset or automatic reset
  - automatic low water cutoff feature
  - variable speed blower
- Microprocessor electronic gas and air controller
- Stainless steel premix burner
- Reliable spark ignition
- Unique geometry – 3 consecutive baffles guide water flow through the heat exchanger and around the combustion chamber
- High water content – stable temperature control and less sensitive to water flow
- Electronic controls with easy to read menus, performance and trouble shooting codes
- Swing out control panel for easy access and servicing
- Attractive appliance design for installation in high visibility areas.
- Boiler water supply temperature can be maintained by the Prestige, eliminating the need for a mix system to achieve the desired temperature with high limit protection

### Engineering Submittal Data

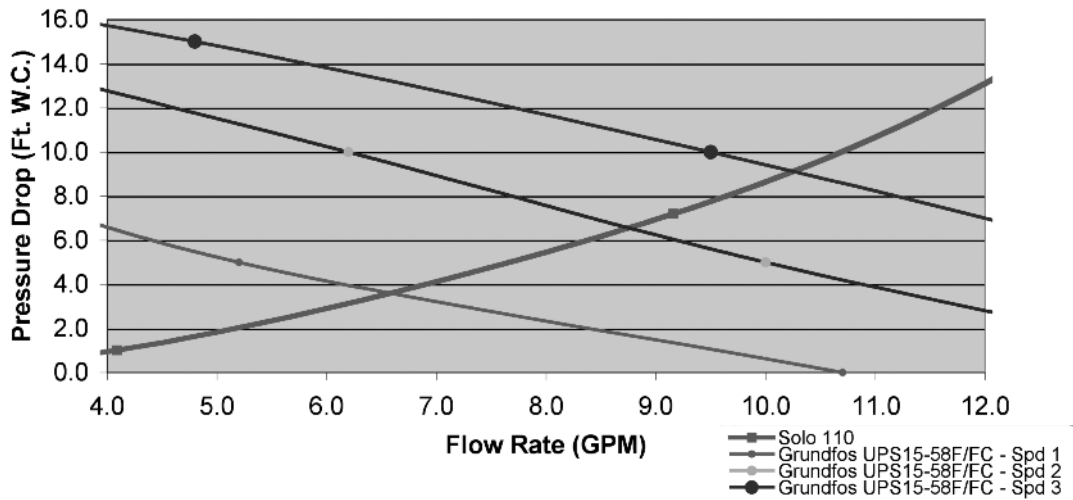
- ASME Boiler Certification - ASME "H" Stamp
- ENERGY STAR Qualified
- Unit complies with ANSI Z21.13 and CSA 4.9 Boiler Standards
- Fully condensing – 95% AFUE Efficiency
- Full modulation capability from 25% to rated input
- Modulation allows fewer and longer cycles leading to lower operating cost and longer component life.
- Low pressure drop heat exchanger
- Independent boiler supply connection for indirect hot water storage tank
- Control interface and logic for indirect hot water storage tank with priority
- Approved for zero clearance to combustibles (excluding vent and boiler piping)
- Automatic boiler freeze protection
- Anti-freeze allowed when used per manufacturer's specifications.
- Superior grade stainless steel heat exchanger construction - 439 Grade
- Self cleaning flue ways in heat exchanger

|  |             |
|--|-------------|
| Project / Location: _____              | Date: _____ |
| Consulting Engineer / Architect: _____ |             |
| Mechanical Contractor: _____           |             |
| Notes: _____                           |             |



| Model       | Fuel        | Input Modulation MBH | AFUE % | DOE Heating Capacity MBH | NET I=B=R MBH | Boiler Water Volume Gal. | Supply/Return Connections | Gas Connection | Vent/Air Diameter | Weight Lbs |
|-------------|-------------|----------------------|--------|--------------------------|---------------|--------------------------|---------------------------|----------------|-------------------|------------|
| SOLO 110    | Natural Gas | 30-110               | 95     | 99                       | 86            | 2.5                      | 1"                        | 1/2"           | 3"                | 106        |
| SOLO 110 LP | Propane Gas | 25-97                | 95     | 87                       | 76            |                          |                           |                |                   |            |

**Pressure Drop Curve vs Grundfos UPS 15-58F-FC**



| Delta T | GPM | Available System Head in Feet |       |       |
|---------|-----|-------------------------------|-------|-------|
|         |     | Spd1                          | Spd 2 | Spd 3 |
| 20      | 8.7 | ---                           | ---   | 4.5   |
| 30      | 5.8 | 1.7                           | 7.7   | 11.2  |
| 40      | 4.3 | 4.7                           | 10.9  | 14.2  |

Note: Minimum allowable flow rate at full input: 5 gpm