

# prestige

## Fully Condensing Water Boiler



# Engineering Submittal Solo 399



### Engineering Submittal Data

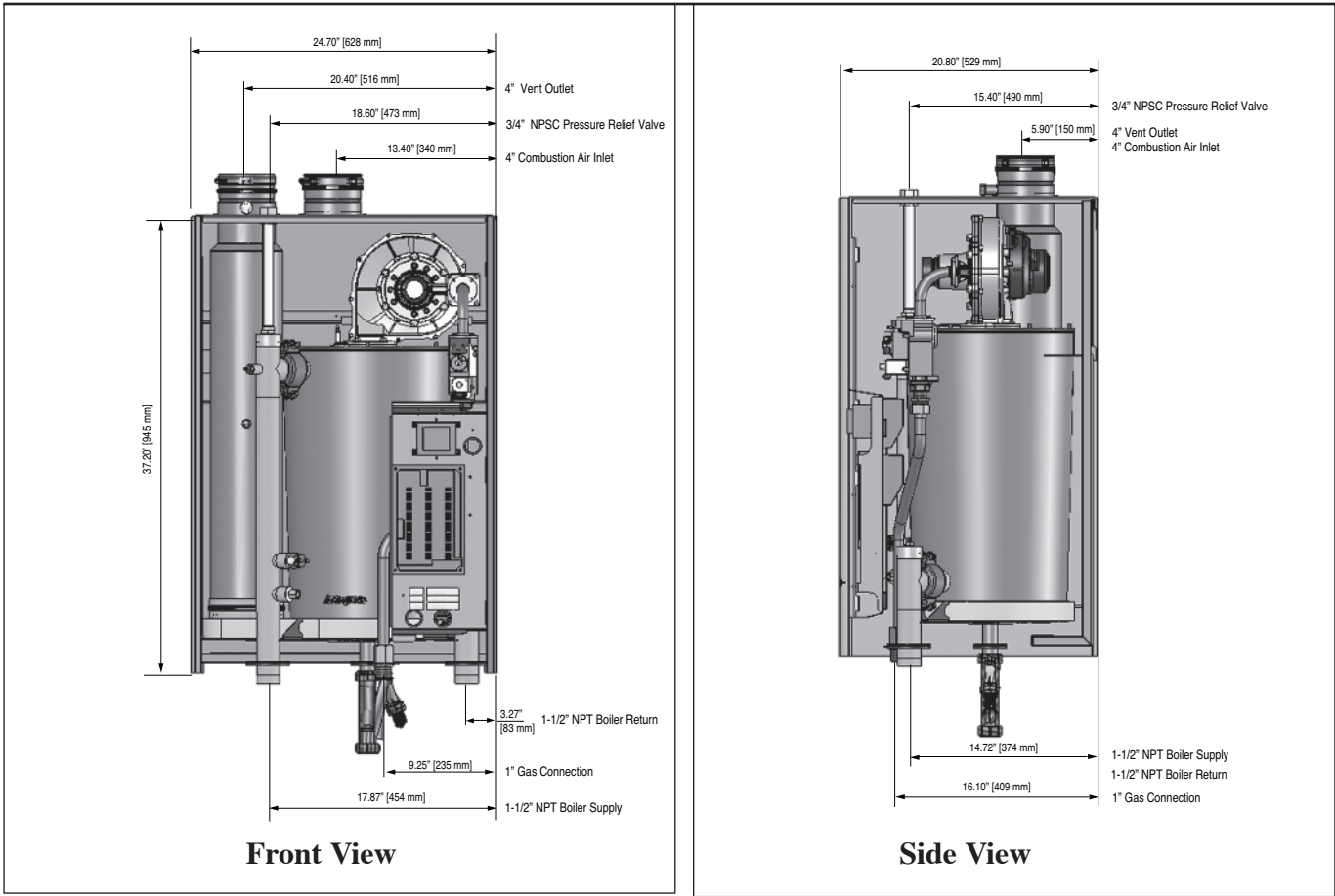
- ASME Boiler Certification - ASME "H" Stamp
- Unit complies with ANSI Z21.13 and CSA 4.9 Boiler Standards
- Fully condensing – 95.1% thermal efficiency
- Full modulation capability from 25% to rated input
- Modulation allows fewer and longer cycles leading to lower operating cost and longer component life
- Low pressure drop heat exchanger
- 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
- Low NOX operation exceeding SCAQMD 2012 regulations
- Digital display control panel
- Use of 4" PVC, CPVC, PPS or AL29-4C pipe for vent and air 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 low temperature startup
- Solid wall mounted or optional wall and floor stand
- Standard equipment:
  - ASME 30 psi pressure relief valve
  - pressure and temperature gauge
  - high limit temperature safety control
  - outdoor temperature reset control
  - 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 and quality
- 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

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

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

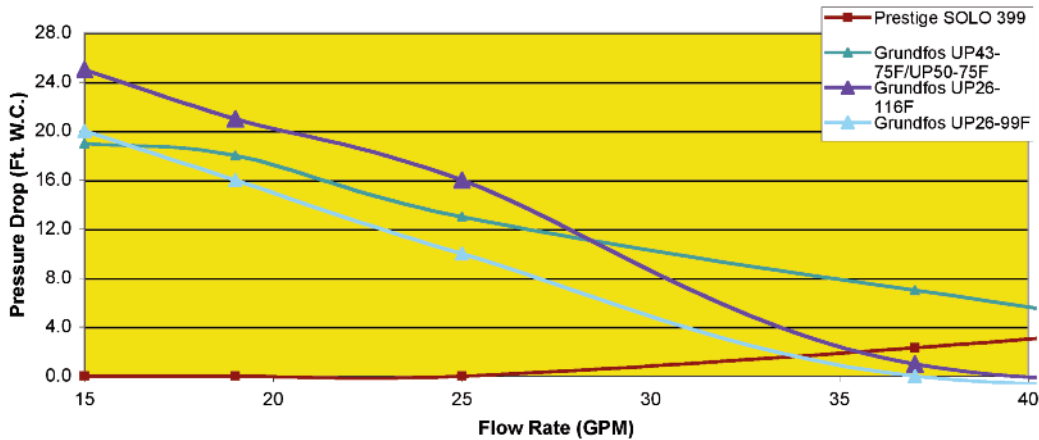
Mechanical Contractor: \_\_\_\_\_

Notes: \_\_\_\_\_



Model	Fuel	Input Modulation MBH	Thermal Efficiency %	Heating Capacity MBH	NET I=B=R MBH	Water Volume Gal.	Supply/Return Connections	Gas Connection	Vent/Air Diameter	Weight Lbs
Solo 399	Natural or Propane	112 to 399	95.1	379	330	7	1-1/2"	1"	4"	200

### Pressure Drop Curve with Grundfos Circulators



Delta T	GPM	Available System Head in Feet		
		UP26-99F	UP26-116F	UP43/50-75F
20	37.9	---	---	4.0
30	25.3	10.0	16.0	13.0
40	19.0	16.0	21.0	18.0

Note: Minimum allowable flow rate at full input: 19 gpm