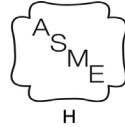


# Engineering Submittal Prestige Excellence



Intertek



## ACVMax Control System

- Graphical display with 6 navigation buttons
- EZ Setup allows quick and easy boiler settings adjustment
- Presets allow quick configuration of 4 circulator outputs
- Each circulator output is fully configurable for custom applications
- Outdoor temperature reset to maximize efficiency
- Accepts two space heating call inputs with independent outdoor reset curves
- Simultaneously heat dual temperature heating systems with built-in mixing valve control
- Domestic hot water priority with optional time-out
- 0-10 VDC Modulation input
- Modbus building management system (BMS) interface, LonWorks® and BACnet® interface optional
- Adjustable warm weather shutdown
- Adjustable boiler freeze protection
- Logging function records sensor readings for system optimization and troubleshooting
- Describes lockouts in plain english and suggests solutions while storing last 8 errors

## Standard Equipment

- Stainless steel premix burner
- Direct spark ignition with variable speed blower
- Full modulation with turndown ratio of 5.5:1
- Automatic air vent
- ASME 30 PSI pressure relief valve
- Integrated pressure and temperature gauge
- Thermostatic domestic mixing valve
- 3-Way diverting valve prepiped and prewired
- 3 Speed circulator prepiped and prewired
- Outdoor temperature sensor
- Automatic low water cutoff feature with early warning
- High temperature manual reset limit safety control
- Terminal block for circulator output
- Low voltage terminal strip with removable jumpers for manual or automatic reset limits
- Swing out control for easy access and servicing
- Alarm and flame status contact
- Polypropylene condensate pan and internal flue pipe
- Polypropylene vent/air connections with test ports

## Prestige Excellence Features

- Light weight construction for wall mounting
- Approved for zero clearance to combustibles
- 14 gallon "Tank-in-Tank" indirect fired water heater
- 2" PVC, CPVC, PP venting up to 45 equivalent feet
- 3" PVC, CPVC, PP, or AL29-4C venting up to 100 equivalent feet.
- Limited 10 year warranty on the heat exchanger and "Tank-in-Tank" water heater
- Limited 5 year warranty on parts, except igniter

## Approvals

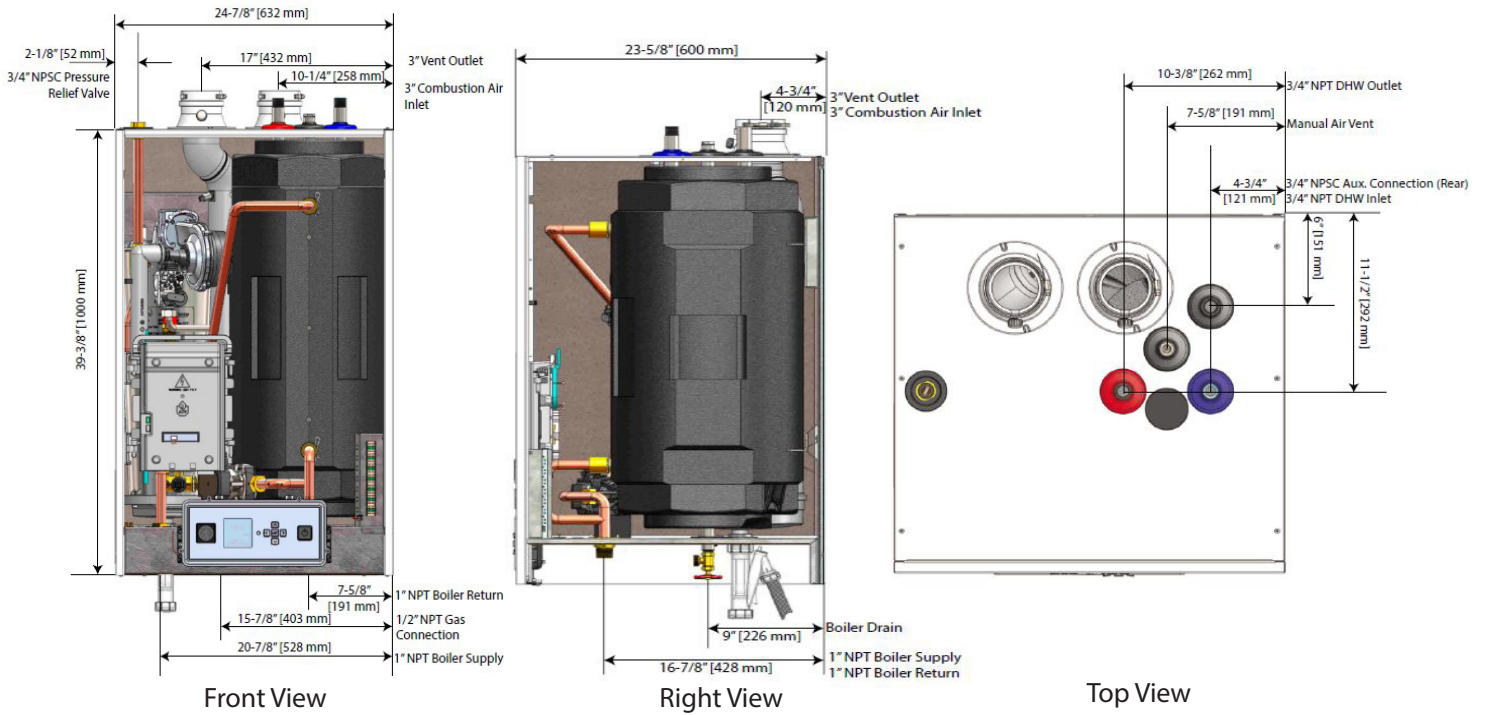
- 95% AFUE Efficiency
- ENERGY STAR Qualified
- ANSI Z21.13 and CSA 4.9 Boiler Standards Compliance
- ASME Boiler Certification – ASME "H" Stamp
- Low NOx operation exceeding SCAQMD 2012 regulations

## 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

Project / Location: _____	Date: _____
Consulting Engineer / Architect: _____	
Mechanical Contractor: _____	

# Boiler Dimensions



## Boiler Performance

Model	Fuel	Input Modulation (MBH)	AFUE	DOE Heating Capacity (MBH)	Net AHRI Rating	Boiler Water Volume (gal)	Power	Shipping Weight Lbs / Kg
Excellence 110	Natural or Propane	20-110	95%	102	89	5	120/1/60 FLA: 10A	190 / 86

## Domestic Performance

Model	Domestic Storage Gal.	Continuous Flow Gal/hr	Peak Flow Gal/10 min	1st Hour Flow Gal/hr
Excellence 110	14	180	55	210

Based on: Domestic - 50°F Inlet / 108°F Outlet  
 Boiler - 186°F Inlet  
 Factory Supplied Mixing valve installed

Pressure Drop Comparison - Excellence vs Grundfos UPS15-78

