# Conquest<sup>®</sup> Semi-Instantaneous Gas Condensing Water Heater

399 to 800 MBH • AquaPLEX® Duplex Stainless Steel

# **Standard Features and Equipment**

### Performance

- 95% thermal efficiency (per 10 CFR 431: ANSI Z21.10.3 @ 70°F to 140°F)
- Up to 99% thermal efficiency at low fire from 40°F to 140°F
- Low NOx emissions < 20 ppm NOx, SCAQMD compliant</li>

### **Pressure Vessel**

- AquaPLEX tank (duplex stainless steel)
- · Storage tank ASME stamped and National Board Registered for 150 psi MAWP
- · CSA and ASME rated T&P relief valve (On 800 MBH model, standard valve meets ASME relief rating; CSA rating on 800 MBH models is optional)
- Fiberglass insulation
- Durable polyethylene jacket (100% recycled material)
- · Bottom drain valve

### **Heat Exchanger**

AquaPLEX combustion chamber and fire tubes, helically-coiled, single pass, 100% submerged

### **Burner, Operating Controls and Safeties**

- · Pre-mix surface burner with proportional air/gas control
- · Electronic operating system with integrated ignition and operating controls
  - · Programmable electronic operator with digital temperature readouts, adjustable from 80°F to 180°F (consult factory for applications with ≥180°F delivered water)
  - Plain text heater status and fault indication with fault history
  - Alarm with remote contacts
  - Visual modulation rate
  - Manual-reset high temperature limit
  - Modbus RTU (RS-485)
  - BACnet MSTP (RS-485)<sup>2</sup>
- · Electronic low-water cutoff with manual reset and test switch
- CSD-1 compliant controls on 399 MBH model (Optional on 500 to 800 MBH models)
- · Remote on/off terminals
- · Seamless modulation
- · Louver or power venter relay and proving contacts

#### Warranty

- 15-year tank and heating surfaces warranty covering waterside and condensate corrosion, leakage, production of rusty water, material defects and workmanship (PV903A)1
- First Year Limited Service Policy (PV551)<sup>1</sup>

<sup>1</sup>See complete warranty and service policy for full details PVI reserves the right to change the design and specification without notice.

<sup>2</sup>Protocol conversion to BACnet IP or LonWorks requires field supplied and field installed router or gateway.



A WATTS Brand

## **Codes and Standards**

- DOE Compliance Certification Database
- Intertek / ETL listed
  - ANSI Z21.10.3 / CSA 4.3
  - · PVC, CPVC or Centrotherm InnoFlue SW Polypropylene Category IV vent material
  - Zero-clearance and combustible floor installation
  - NSF-372 lead-free
  - NSF-5
- · ASHRAE 90.1 compliant

#### Miscellaneous

· Condensate "P" trap (provided for field installation)

## **Optional Equipment**

- · CSD-1 controls (500 to 800 MBH) (adds high and low gas pressure switches)
- Propane operation (consult factory)
- Factory-authorized startup
- CSA relief rating on temperature and pressure relief valve (800 MBH only)
- Condensate neutralization system (400 MBH PN 150868)
- Condensate neutralization system (500-800 MBH PN 150772)
- Air filtration box (PN 121850)
- Pigtail kit for 120V plug-in power cord, 14/3 AWG, 12 ft. length (PN 122042)
- Concentric vent kit (PN 122555 for 4"PVC) (PN 122367 for 4"CPVC)
- Parts kit (consult factory)
- Installation kit (PN 143403)
- DigiTemp<sup>®</sup> digital mixing valve (consult factory)
- AquaSolve scale control system (consult factory)



Hot Water Solutions

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