Conquest® Semi-Instantaneous GAS CONDENSING WATER HEATER
AquaPLEX® STORAGE TANK (DUPLEX STAINLESS STEEL)
399 TO 800 MBH OUTDOOR MODEL

STANDARD FEATURES AND EQUIPMENT

PERFORMANCE
- 96% 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

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 is not available)
- 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)
- 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

MISCELLANEOUS
- Condensate “P” trap (provided for field installation)

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

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

OPTIONAL EQUIPMENT (factory installed)
- CSD-1 controls (500 to 800 MBH)
  (adds high and low gas pressure switches)
- Propane operation (consult PVI representative)

OPTIONAL FEATURES
- Factory authorized startup

OPTIONAL EQUIPMENT (field installed)
- Condensate neutralization system (400 MBH PN 140793)
- Condensate neutralization system (500-800 MBH PN 140794)
- Vent termination cap for exhaust vent
  □ 4-inch (PN 58842)
  □ 6-inch (PN 58850)
- Parts kit (consult PVI representative)
- Installation kit (PN 143403)

PV 9029 11/2018

PVI Industries, LLC
Fort Worth, TX • (800) 784-8326 • www.pvi.com

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

Protocol conversion to BACnet IP or LonWorks requires field supplied and field installed router or gateway.