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

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 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)
- 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

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 factory)

OPTIONAL FEATURES
- Factory authorized startup

OPTIONAL EQUIPMENT (field installed)
- CSA relief rating on temperature and pressure relief valve
  (800 MBH only)
- Condensate neutralization system (400 MBH PN 150866)
- Condensate neutralization system (500-800 MBH PN 150772)
- Air filtration box (PN 122042)
- Pigtail kit for 120V plug-in power cord, 14/3 AWG,
  12 ft. length
- Concentric vent kit (PN 122555 for 4”PVC)
  (PN 122367 for 4”CPVC)
- Parts kit (consult factory)
- Installation kit (PN 143403)

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.