

Conquest® GAS CONDENSING WATER HEATER

AquaPLEX® STORAGE TANK (DUPLIX 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 connectable (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 VFD modulation (500 to 800 MBH models)
- 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) ①**
- 1-year parts warranty (PV527) ①

CODES AND STANDARDS

- Energy Star certified
- 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
- First-year, cost-free service policy (PV551) ①
Conditions exist outside of the continental United States

OPTIONAL EQUIPMENT (field installed)

- CSA relief rating on temperature and pressure relief valve (800 MBH only)
- Condensate neutralization system (400 MBH PN 140793)
- Condensate neutralization system (500-800 MBH PN 140794)
- Vent termination cap for direct inlet air duct, 6-inch diameter (PN 58850)
- Vent termination cap for exhaust vent
 - 4-inch (PN 58842)
 - 6-inch (PN 58850)
 - 8-inch (PN 102608)
- 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)

ELECTRONIC CONTROL OPTIONS (field installed)

- Protocol gateway
Select protocol (consult factory)
 - BacNet IP
 - BacNet MSTP
 - LonWorks

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