POWER VT® PLUS GAS • CONDENSING WATER HEATER
AquaPLEX® STORAGE TANK (DUPLEX STAINLESS STEEL)
1000 to 2000 MBH • 250 and 300 Gallons Storage

STANDARD FEATURES AND EQUIPMENT

PERFORMANCE
- 96% thermal efficiency (per 10 CFR 431: ANSI Z21.10.3 @ 70°F to 140°F)
- 98% thermal efficiency at low fire from 40°F to 140°F
- < 20 ppm NOx

PRESSURE VESSEL
- AquaPLEX® tank (duplex stainless steel)
- Storage tank ASME stamped and National Board Registered for 150 psi MAWP
- Nonferrous, removable fittings at all tank connections
- ASME-rated temperature and pressure relief valve
- Pressure relief valve
- Inspection opening /cleanout
- Fiberglass insulation
- Coated steel jacket panels
- Drain valve
- Tie down anchor points on tank
- Tank pressure gauge

HEAT EXCHANGER
- Three-pass, fire tube design
- AquaPLEX® fire tubes
- Secondary economizer for low temperature flue gas
- Domestic water piping assembly includes press-form fittings (Viega® ProPress®)

BURNER, OPERATING CONTROLS AND SAFETIES
- Pre-mix surface burner with proportionate gas/air
- Electronic flame safeguard with pre- and post-purge
- Combustion sequence panel lights including lockout
- Programmable electronic operating control with digital temperature readouts, adjustable from 75°F to 180°F
- Immersion temperature limiting device (high limit control)
- Terminals for remote on-off
- Flame failure audible alarm and indicating light with remote contacts
- Seamless VFD modulation

WARRANTY AND SERVICE POLICY
- 15-year tank warranty (PV903A)
- 1-year burner and parts warranty (PV536)
- First-year cost-free service policy (PV551)

CODES AND STANDARDS
- Intertek / ETL listed:
  - UL 795 / CSA CAN1-3.1
  - CPVC Category IV vent material and listed
  - Polypropylene venting systems
  - NSF 372 lead-free
  - ASHRAE 90.1 compliant

MISCELLANEOUS
- Factory authorized startup
- Vent termination cap, 6-inch diameter
- Condensate “P” trap (provided for field installation)
- Combustion air filter and direct inlet air connection

FACTORY OPTIONS PACKAGES

1 ACCESSORIES PACKAGE
- Electronic low-water cutoff (auto reset)
- High temperature limit (manual reset)
- Relay and proving terminal for remote equipment

3 ALARM and COMMUNICATIONS PACKAGE
- Alarm on any failure functionality with switched contacts for remote notification
- 95dB local audible alarm with silencing switch
- 485 serial cable to connect electronic operator to BAS (Modbus RTU)

4 CSD-1 COMPLIANT CONTROLS PACKAGE
  Includes the “Accessories” Package
  - Test and manual-reset function for low-water cutoff
  - Non-recycle, single-try ignition
  - High and low gas pressure switches

FACTORY INSTALLED INDIVIDUAL OPTIONS

A CSA-rated temperature and pressure relief valve(s)
N Celsius functionality for operating control

FIELD INSTALLED OPTIONS

Protocol gateways (consult factory)
  __ Bacnet IP __ Bacnet MSTP

Condensate neutralization kit (PN 140794 for 1000MBH; PN140795 for 1500-2000 MBH)
Vent termination caps (larger than standard)

OPTIONAL SERVICE POLICY

Long-life service policy (PV559)
  Conditions exist outside of the continental United States

CUSTOM CONFIGURATION
Consult representative for additional custom options

PART NUMBER ORDERING SEQUENCE

BASE MODEL# + “PACKAGES” + “OPTIONS”
Example: 150 LX 250APVIF-13A

PV 8005  11/2018

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