



**Low NO<sub>x</sub> TURBOPOWER® - PACKAGED WATER HEATER**  
**AquaPLEX® STORAGE TANK (UNLINED DUPLEX ALLOY)**  
FOR INPUTS OF 199,000 to 399,000 Btu/h

**STANDARD FEATURES AND EQUIPMENT**

**PERFORMANCE**

- 83% thermal efficiency per 10 CFR 431 (ANSI Z21.10.3)
- Certified NO<sub>x</sub> emissions of <55 ppm

**PRESSURE VESSEL**

- AquaPLEX® tank (unlined duplex alloy)
- 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
- 23" diameter tank access
- Fiberglass insulation
- Steel jacket panels with industrial-grade finish
- Lifting lugs
- Drain valve

**HEAT EXCHANGER**

- Removable TURBOPOWER® heat exchanger:  
All AquaPLEX® duplex alloy combustion chamber and tube sheets with copper fire tubes
- 100% submerged combustion
- Heat exchanger ASME stamped for 150 psi

**WARRANTY and SERVICE POLICY**

- 25-year tank warranty (PV901) ①
- 10-year heat exchanger warranty (PV584) ①
- 1-year burner and parts warranty (PV536) ①
- 1-year cost-free service policy (PV551) ①

**BURNER, OPERATING CONTROLS AND SAFETIES**

- FIREPOWER® burner with UL795 compliant gas train; including second main safety shutoff valve
- Electronic flame safeguard with pre-purge
- Upper and lower immersion operating thermostats, adjustable from 85°F to 165°F (upper thermostat only on horizontal tanks ≤ 250 gallons and on 250 gallon vertical tanks)
- Immersion temperature limiting device (high limit control)
- Terminals for remote on-off control

**CODES AND STANDARDS**

- Intertek / ETL listed to US and Canadian safety standards
- Compliant with EPA lead-free requirements
- FM compliant
- ASHRAE 90.1 compliant

**MISCELLANEOUS**

- Barometric damper (included for field installation)
- Factory-authorized startup

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**OPTIONAL FEATURES AND EQUIPMENT**

- Long-life service policy (LLSP) (PV559) ①

**FACTORY INSTALLED OPTIONS**

- CSA-rated temperature and pressure relief valve(s) (AGARV)
- Intra-tank circulator (INTRA)  
(< 1000 gallon tank: 1/25 hp, 115V, 3/4 amp)  
(≥ 1000 gallon tank: 1/3 hp, 115V, 8 amp)
- CSD-1 code package (adds manual-reset high limit, electronic low-water cutoff) (CSD-1)
- L.P. gas operation (LPGAS)
- Electronic low water cutoff (ELWCO)
- Manual-reset, immersion temperature limiting device (MRTL D)
- Tank pressure gauge on drain piping (WTRPG)
- Dial temperature and pressure gauges - panel mounted (T-PGA) (consult factory if electronic operating control is selected (TTRAC))
- Operating thermostat adjustable to allow stored water temperature above 165°F (SANI)
- Audible alarm with silencing switch (ALARM) (for TTRAC, use ALOAF and BUZ95)
- Relay and proving terminals for combustion air louvers (LOUVR)
- Air intake assembly for direct combustion air (requires field connection to ductwork supplied by others) (AIRIN)

**ELECTRONIC OPERATING CONTROL OPTIONS**

**Select all that apply**

- Programmable electronic operating control with digital temperature readouts (TTRAC)
- 485 serial cable to connect the electronic operating control to a Building Automation System (Modbus RTU Protocol) (MBUSC)
- Alarm, including local audible alarm (approx. 72dB from TempTrac control) (ALOAF)
- 95dB local audible alarm for noisier environments, includes silencing switch (requires ALOAF option) (BUZ95)
- Protocol gateway (consult factory)     Modbus TCP/IP     BacNet IP     BacNet MSTP     LonWorks

① See complete warranty and/or service policy for full details

PVI reserves the right to change the design and specification without notice.

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