

Technical Data Sheet

Conquest[®] 100

Water Heater

Conquest is a compact, condensing, semi-instantaneous, firetube water heater that combines an advanced fuel-saving design with extended product life. It features a submerged combustion chamber and a heat exchanger with a dimpled array of firetubes fabricated entirely from durable, corrosion-resistant AquaPLEX[®] duplex stainless steel alloy. Built from the best material, Conquest provides superior payback with 3-5 times the warranty of competitors.

Features

- 199, 250, 300 MBH
- Right-sized storage tank to meet peak demand
- Small footprint (28" x 75 3/4")
- 97% thermal efficiency from 40°F to 140°F
- 95% thermal efficiency from 70°F to 140°F
- Seamless modulation reduces cycling and improves efficiency up to 99% during low load
- Direct vent design with 4-inch air and vent connections; capable of venting with PVC, CPVC, and Polypropylene
- Less than 20 ppm NOx
- 3:1 turndown
- Touch-screen operating control with plain text status and fault diagnostics
- 15-year tank and heat exchanger corrosion warranty (8 years full, 7 years prorated)



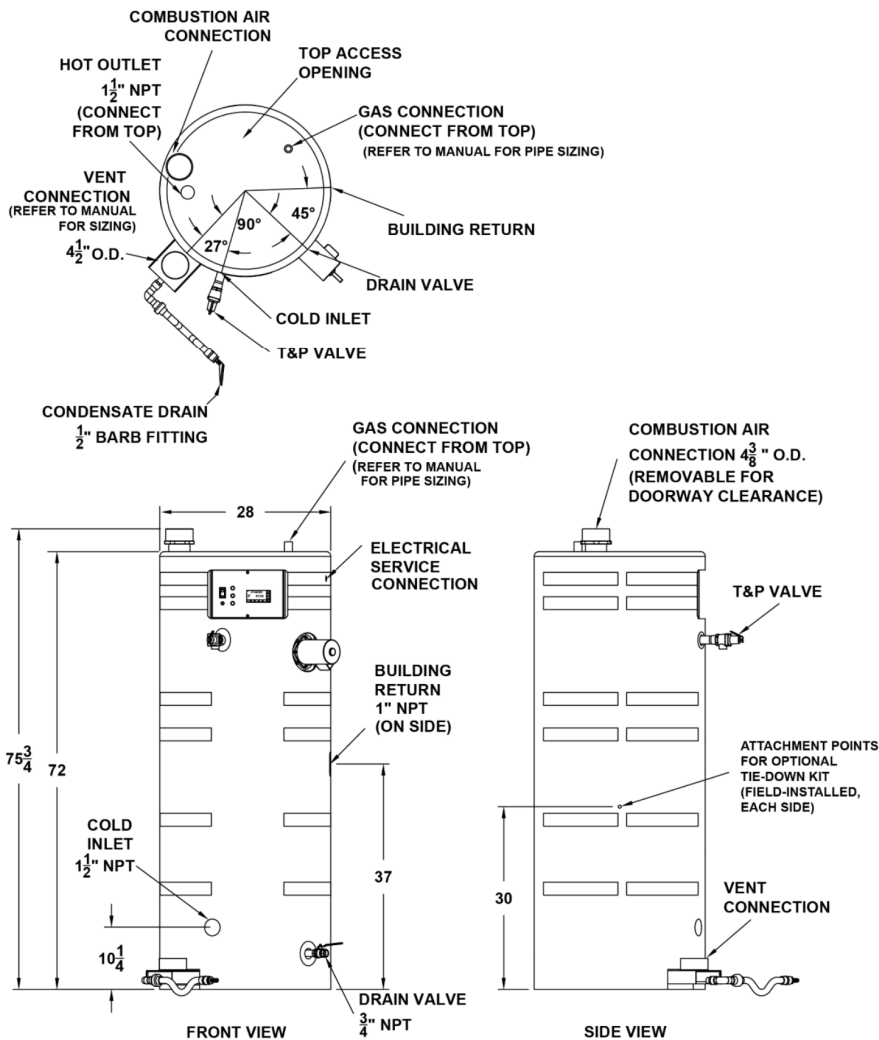
| Model ▼ | Input Btuh | Recovery GPH (thermal efficiency) | | Gas Connection NPT | Vent Diameter (ETL listed for longer vents with larger diameter) | Operating Weight (lbs.) | Volume (gal) |
|---------------|------------|-----------------------------------|----------------------------|--------------------|--|-------------------------|--------------|
| | | 70°F to 140°F ^① | 40°F to 140°F ^② | | | | |
| 20 L 100A-GCL | 199,900 | 326 (95%) | 233 (97%) | 3/4 | 3" @ 100 equivalent ft | 1470 | 98.2 |
| 25 L 100A-GCL | 250,000 | 408 (95%) | 291 (97%) | | | | 94.7 |
| 30 L 100A-GCL | 300,000 | 490 (95%) | 349 (97%) | | | | |

① Recoveries and thermal efficiency derived from DOE 10 CFR 431 testing requirements (ANSI Z21.10.3 @ 70°F to 140°F).

② Recoveries and thermal efficiency based upon 40°F entering water temperature. Dimensions are in inches unless otherwise indicated.

For standard and optional equipment, refer to form PV 8550.

Empty weight is 635 pounds and shipping weight is 750 pounds (all models)



Electrical Service

120VAC, 1Ø, 60 Hz. 5 amps

Exhaust Venting

Use a Category IV PVC, CPVC or ETL, UL, ULC or CSA listed stainless steel or Centrotherm InnoFlue SW Polypropylene vent. Minimum vent length 5 eq. feet. Do not size vent based only upon connection diameter at the appliance. Refer to installation manual for sizing.

Inlet Combustion Air Duct

Up to 100 eq. feet using 3-inch PVC or galvanized vent pipe. Longer lengths are ETL listed through larger diameter pipe. Refer to installation manual.

Gas Pressure - Natural

Minimum inlet flow pressure 3.5" W.C. Maximum static pressure 14" W.C. For LP gas, refer to installation manual.

Minimum Clearance from Combustibles

Zero clearance for sides and rear, 24" from front. 15" from top. Can be installed directly on a combustible floor.

Recommended Service Clearances

18" from all sides. Check local and national codes for additional requirements.

Emissions

All models < 20 ppm NOx.

**Do not size vent and gas line based only upon connection diameter at the appliance. Refer to installation manual for sizing requirements.

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



Hot Water Solutions

PVI Industries • Fort Worth, TX

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