

Brigade® Water Heater

Quality | Durability | Reliability | Unrivaled ROI



Replacing Restaurant Water Heaters Every 3 Years is not our Business Plan

A breakthrough in smart design, PVI's Brigade is a powerful, gas condensing, firetube water heater that delivers safe, reliable hot water for demanding commercial applications. Brigade's semi-instantaneous hybrid design consists of an integrated buffer that can handle brief high-spike draws, with burner modulation delivering thermal efficiencies up to 99% under routine hot water demands. Constructed with AquaPLEX® duplex stainless steel, the compact Brigade delivers unmatched durability, providing owners and facility managers with a dependable domestic hot water system that lasts much longer than the typical 3-4 year glass-lined water heaters.

Ultra-compact Footprint Allows Much Needed Redundancy

- 16" W x 26" D x 75" H with no side or back connections
- Get true redundancy with 2 Brigades fitting in the space of 1 traditional tank type water heater
- 0" clearance from sides and rear, 8" from top and 3" from front
- Easily accessible plumbing, combustion, gas connections at top

Unmatched Corrosion Resistance for Longer Life

- AquaPLEX construction with enhanced patent-pending firetubes
- Eliminates the 3 to 4-year replacement cycle
- Industry leading 6-year full limited warranty

Dynamic Water Heating

- 25 gallons buffer and 199,000 Btu/h input
- Eliminates short cycling and 'cold water sandwich' effect

Low Maintenance and Operating Costs

- Up to 99% thermal efficiency
- High turndown (7:1), with minimum firing rate <30,000 Btu/h

Low Upfront Installation Cost

- Vents through PVC or CPVC
- Fits through 36" doorways
- Light weight and easily maneuverable

Comprehensive Regulatory and Agency Compliances

- ENERGY STAR® certified
- SCAQMD Rule 1146.2 for ultra-low-NOx emissions
- Intertek / ETL Listed Mark:
 - ANSI Z21.10.3 - CSA 4.3
 - NSF/ ANSI 372 for low lead
 - NSF 5 (an exclusive standard for restaurants)
- Meets the thermal efficiency and standby loss requirements of the U.S. Department of Energy and current edition ASHRAE/IES 90.1
- CSA certified and ASME rated T&P relief valve
- Buy American Act compliant



ASHRAE 90.1 compliant
SCAQMD compliant

Why Brigade?

Best Value for your Investment

With a 6-year non-prorated limited warranty, investing in Brigade will save you money and relieve you of the headache of replacing your water heater every 3-4 years.

Redundant System, Reliable Operation, Peace of Mind

Health and Safety codes of many municipalities require continuous availability of hot water for handwashing and sanitizing in commercial kitchens. While water temperature requirement can range from 140°-180°F, maintaining such temperatures over a long period of time is critical. Brigade's 25-gallon buffer ensures you have enough capacity at set-point temperature available instantaneously for peak load during rush hours. Equally important, at just 16" wide, two Brigades will fit in the footprint of a traditional commercial tank type water heater, providing much-needed true redundancy necessary in harsh environments.

Low Installation, Maintenance and Operating Costs

Brigade's lightweight design allows for hassle-free transportation and easy maneuverability. With easily accessible plumbing, combustion and gas connections at the top, there will be less time spent on commissioning, and maintenance will be relatively less. Its modulating premix burner is tuned for 7:1 turndown ratio providing even flame distribution for optimal performance in any demand. The fiberglass glass insulation with polyethylene jacket further reduce standby losses far below U.S. Department of Energy limits of about \$50 annually.

Longer Service Life, Built to Last

Brigade's heat exchanger is constructed from AquaPLEX, a combination of corrosion-resistant duplex stainless steel and a highly specialized pickle-passivation process which returns the fabricated material to its optimum purity. This results in a water heater that requires no glass lining or anodes and outperforms 316L stainless steel. While glass-lined tanks are prone to erosion and premature failure, AquaPLEX is naturally resistant to corrosion and outlasts the competition in both reliability and longevity.



Hot Water Solutions

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