

## Brigade vs. The Competition



**Brigade:** One of PVI's newest water heaters, with the smallest footprint in the industry. The Brigade is capable of satisfying various building hot-water demands efficiently and will do so in a very tight space. With a 16" width and zero clearance required on each side and the back, Brigade will fit in half the space of a traditional commercial water heater or two Brigades can be put in the space of one tank heater and create system redundancy that may otherwise not be possible due to unavailable space. Brigade's heat exchanger and 25-gallon storage tank are made from PVI's AquaPlex and is backed by a full 6-year warranty, double that of commercial tank water heater competitive models. The 25-gallon storage acts as a buffer for small water heating loads and the 7 to 1 turndown of the combustion system allows Brigade to track and adjust to the hot water demand of the building. This combination allows for longer runtime and less cycling of the burner which will lead to higher efficient operation and longer heater and component life. Weighing in at just 355 lbs., Brigade can easily be maneuvered with a hand truck and carried up stairs without the use of specialized stair climbing dollies or expensive delivery services.



**Competing Models** – Most competing models are very similar in construction and operation. Glass-lined tanks and heat transfer flue tubes or heat exchangers are the most common design and will have a 3-year warranty in a commercial application. These glass-lined tanks typically leak shortly after the warranty period resulting in frequent water heater replacements in the 3-4 year range. All glass-lined water heaters require cathodic protection due to the porosity of the glass lining and holidays or voids that occur in the lining. Without cathodic protection, which in most cases requires routine maintenance to be effective, the heater will fail shortly after the useful life of the anode or with the failure of an electronic anode system. Water quality and performing routine maintenance contribute greatly to the longevity of the water heater and success of their operation.



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\*The source for the information and visual aids above can be found at the following links:

<https://www.hotwater.com/Water-Heaters/Commercial/Water-Heaters/Gas/Cyclone/Cyclone-Mxi/>

<https://www.bradfordwhite.com/professionals/usa-commercial-gas/ef-series-ultra-high-efficiency-models-ef>

[https://www.rheem.com/innovations/innovation\\_commercial/triton/](https://www.rheem.com/innovations/innovation_commercial/triton/)

