

PRODUCT LAUNCH FACT SHEET

HIGH PERFORMANCE SERIES™

FOR RESIDENTIAL APPLICATIONS

DESCRIPTION

Bradford White's High Performance Series provides incredible hot water delivery from a space-saving and convenient package. The design and development of the High Performance Series evolved from a need identified by some of our customers: They wanted the continuous supply capabilities of tankless water heaters, but also expressed the need for some stored volume of hot water. The High Performance Series is the perfect answer.

HOW IT WORKS

The High Performance Series combines four design technologies to achieve its amazing performance:

1. **HIGH INPUT:** The inputs on the High Performance Series are 78,000 BTU/hr for the GX2-25S and 80,000 BTU/hr for the GX1-55S. Because they are so high-powered, the High Performance Series models are technically classified as commercial water heaters.

2. **HELICAL FIN FLUE:** The specially engineered Helical Fin Flue maximizes surface area and heat exchange capabilities so that the high heat inputs can be efficiently transferred to the water. The unique flue design helps the High Performance Series achieve thermal efficiency ratings of 82%, and the fins help to reduce heat loss during standby periods by minimizing air movement through the flue.



3. **OPTIMIZER™ TEMPERATURE CONTROL SYSTEM:** Bradford White's integrated mixing device allows water in the tank to be stored at higher temperatures (up to 180°F) while controlling the hot water outlet temperature to a safe and comfortable level. The Optimizer™ Temperature Control System further enhances the performance of the High Performance Series by improving the blend factors (ratio of stored hot water in the tank to cold water supply) used to bring the outlet water temperature down to the desired set point. More details are provided in the performance chart on the reverse side.



4. **HYDROJET2™ TOTAL PERFORMANCE SYSTEM:** Much like the original Hydrojet® Total Performance System, this cold water inlet device minimizes sediment build up, increases delivery and reduces thermal stratification. The Hydrojet2™ is specifically designed for higher input applications.



PERFORMANCE

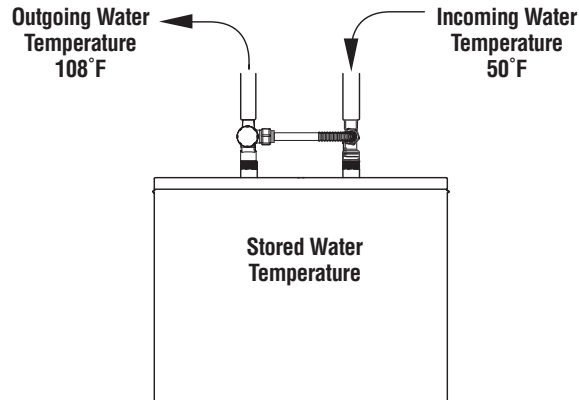
When tested to the industry standard residential First Hour Delivery procedure, the GX2-25S can provide 155 gallons and the GX1-55S will deliver 200 gallons. Keep in mind that this protocol calls for a starting tank temperature of approximately 135°F. When operated with a higher stored water temperature, the deliverability can be even greater.

Because of their high recovery and storage, the GX2-25S can fill a standard 50-gallon tub with 108°F water at a 5gpm flow rate and the GX1-55S can fill a 100-gallon tub with 108°F water at the same flow rate.

The chart below details the volume of water immediately available at different stored water temperatures:

GX2-25S6*	
Stored Water Temp.	Volume Out
180°F	56 gallons
165°F	46 gallons
150°F	41 gallons
135°F	35 gallons
GX1-55S6*	
Stored Water Temp.	Volume Out
180°F	113 gallons
165°F	103 gallons
150°F	89 gallons
135°F	76 gallons

*Volumes given at a flow rate of 5 gpm.



APPLICATIONS

The High Performance Series is perfect for applications where space is a concern. If the required demand is more than one standard water heater can provide, consider the High Performance Series. For example: If a homebuilder normally installs two 40-gallon gas atmospherics, consider one GX1-55S.

The High Performance Series also offers some installation advantages over tankless units. They vent using standard 4" single wall vent pipe, and they only require a 1/2" gas connection. Most tankless units require expensive Category III type sealed vent systems and a 3/4" minimum gas line.

SPECIFICATION COMPARISON

Model Number	Capacity (gal)	Input (BTU/hr)	Recovery at 90°F (gal)	Vent Size	Floor to Flue Height	Diameter	Weight (lbs)
GX2-25S6BN	25	78,000	84	4"	59 ¹ / ₂ "	18"	150
M-I-303T6FBN	30	40,000	42	3"	58"	16"	110
GX1-55S6BN	55	80,000	86	4"	59 ⁵ / ₈ "	22"	200
M-I-5036FBN	50	40,000	42	3"	59 ⁵ / ₈ "	20"	145

Other Standard Features

- Standard 4" venting
- Vitraglas® lining
- Side tappings for space heating
- Non-CFC Foam insulation
- Brass drain valve
- Commercial versions available

For more details, please refer to the spec sheets.

Depending on flow requirements, potential installations include:

RESIDENTIAL 25 GALLON GX2-25S6BN	Replacement for Tankless Applications Small Condos and Townhomes In-law Suites Small Garden/Hot Tubs with Low Flow Faucet (~5gpm) Small Home Retrofits Old Home Retrofits
RESIDENTIAL 55 GALLON GX1-55S6BN	Replacement for Tankless Applications Regular Garden/Hot Tubs with Low Flow Faucet (~5gpm) Large Home Retrofits Retrofits for Residential Applications With Two 50 Gal Water Heaters