

NORITZ Tankless Water Heater, Model GQH-22H8FFA

22kW Gas Combination Boiler

Rated heat input
22 kW

Minimum heat output
6.6 kW

Rated heat output
20 kW

Hot water flow ($\Delta T = 25^{\circ}\text{C}$)
10 L/min

Designed for urban apartments and large residential housing projects, the 22kW standard gas combination boiler provides efficient space heating and steady domestic hot water for everyday comfort.

Its compact design allows it to fit easily into smaller installation spaces. The combustion system is reliable and consistent in its performance overtime. For contractors and distributors who work on cost efficient residential projects, the tankless water heater is an ideal choice for large-scale deployment which also helps reduce after-sales concerns.

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Technical Specifications

Model	GQH-22H8FFA
Rated heat input	22kW
Rated heat output	20kW
Minimum heat output	6.6kW
Minimum DHW output	7.8kW
Thermal Efficiency	≥89%
Hot water flow ($\Delta T=25^{\circ}\text{C}$)	10L/min
Dimensions (H × W × D)	740 × 440 × 310 mm
Weight	32.5kg
Water-flow servo motors	0
Staged combustion	No
Circulation pump	1
0.5oC temperature step control	No
Heating temperature range	30-80°C
Hot water temperature range	35-60°C
Noise level (sound power / sound pressure)	≤53dB / ≤39dB
Wi-Fi	No

Component Overview

Combustion Fan A fixed-speed fan is used for stable operation and broad compatibility. It starts reliably and is suitable for higher-load conditions.	Electronic Controller The controller enables precise temperature regulation and efficient system performance. It incorporates multiple safety protections, user-friendly controls, and integrated fault diagnostics to make troubleshooting and maintenance easier.
Sealed Combustion Chamber The sealed combustion chamber is designed with insulation and sound-reducing materials to help protect internal components and limit operating noise. The H-series wall-hung boilers incorporate further noise-reduction measures, with sound levels as low as 42 dBA*.	Noritz Water Pump Noritz water pumps have smart self-protection features integrated that help reduce the risk of faults over time. They are designed for reduced operation noise to improve comfort in daily use.
Five-Stage Heat Exchanger Design A five-pass heat exchanger helps maintain a compact overall structure while improving heat transfer efficiency. With enlarged main tubes and an extended heat exchange path, it allows more heat to be absorbed and utilized effectively.	Italian SIT Proportional Valve An Italian SIT proportional gas valve is used to regulate gas flow and pressure. Its precise and responsive control helps the burner operate more smoothly and waste less gas for improved efficiency.
Expansion Tank The expansion tank absorbs pressure fluctuations in the water circuit as temperatures rise and fall. By stabilizing pressure, it protects key components and maintain consistent operation over time.	

Features

- 30-80°C wide heating range, suitable for multiple rooms and seasonal needs
- Compatible with Japanese-style dry floor heating systems for faster warm-up and improved comfort
- Stable hot water supply, supporting multiple outlets at the same time
- Multi-layer noise-control design to reduce operating sound
- Active freeze protection for reliable heating in cold weather

Installation Dimensions

Advantages

 30-80°C temperature range	 Floor heating ready in 30 minutes	 Supports several taps at once	 Consistent hot water supply
 Wide heating range	 Compatible with Japanese-style underfloor heating	 Stable hot water temperature	 Lower noise operation
 Dual anti-freeze protection for winter operation	 Large touch display		

- The "Floor heating ready in 30 minutes" claim is based on Noritz lab testing. Results may vary depending on real use.
- Test data is from Zhejiang Fangyuan Testing and Certification Group, report No. 2411305892.

Applications

The Noritz H Series wall-hung boilers combine space heating and hot water solutions for daily use. They are designed to support multiple areas of the home, including the living room, kitchen, bedroom, and bathroom. Compatible with Japanese style underfloor heating systems, they deliver faster warm-up in daily use. Compared with conventional wall-hung boilers, the H Series helps keep water temperature more stable and offers a more consistent hot water experience throughout the home.



NORITZ: From Japan, Serving Customers Worldwide

Headquartered in Japan, Noritz has dedicated more than half a century to the research and innovation of heating and hot water technologies. As a trusted partner in the global HVAC industry, Noritz continues to center its development around energy efficiency and stable performance. Through careful supplier selection and localized product optimization, the company provides distributors and engineering contractors with competitive gas wall-hung boiler solutions.

Inquiry Form

Energy-saving heating equipment continues to be developed to help reduce environmental impact risks, with the goal of supporting a comfortable warm-water lifestyle for users worldwide.



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20kW Staged-Combustion Gas Combination Boiler (Wi-Fi)	27kW Staged-Combustion Gas Combination Boiler (Wi-Fi)	30kW Gas Combination Boiler, Dual Servo Control (Wi-Fi)	40kW Gas Combination Boiler, Dual Servo Control (Wi-Fi)
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