

NORITZ Tankless Water Heater, Model GQH-22H8FFAI

22kW Gas Combination Boiler, Built-in Wi-Fi

Rated heat input
22 kW

Minimum heat output
6.6 kW

Rated heat output
20 kW

Hot water flow (ΔT = 25°C)
16 L/min

By adding built-in Wi-Fi, Noritz turns a stable, cost-effective residential boiler into a smart heating solution that is well-suited to today's connected homes. This 22kW standard gas combination boiler integrates IoT connectivity into a reliable heating platform. The tankless water heater is a popular choice for households and projects, offering a smart heating performance and convenient remote control.

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Technical Specifications

Model	GQH-22H8FFAI
Rated heat input	22kW
Rated heat output	20kW
Minimum heat output	6.6kW
Minimum DHW output	7.8kW
Thermal Efficiency	≥89%
Hot water flow (ΔT=25°C)	12L/min
Dimensions (H x W x D)	740 x 440 x 310 mm
Weight	32.5kg
Water-flow servo motors	0
Staged combustion	No
Circulation pump	1
0.5oC temperature step control	N0
Heating temperature range	30-80°C
Hot water temperature range	35-60°C
Noise level (sound power /sound pressure)	≤53dB / ≤39dB
Wi-Fi	Yes

Component Overview



Combustion Fan
A fixed-speed combustion fan is designed for broad system compatibility, with reliable start-up performance suitable for higher load operating conditions.



Electronic Controller
Provides accurate temperature control and efficient operation, while integrating multiple safety protections, intuitive controls, and fault diagnostics for easier maintenance.



Sealed Combustion Chamber
Insulated and sound-dampened side panels help reduce friction and vibration, protecting internal components and reducing operating noise.



Noritz Water Pump
Engineered for low-noise operation to improve everyday comfort, with built-in self-protection functions that help reduce the risk of faults over time.



Five-Stage Heat Exchanger Design
A compact structure combined with enlarged main tubes and an extended heat exchange path allows heat to be absorbed more effectively.



Italian SIT Proportional Valve
Precisely regulates gas flow and pressure with fast response and high control accuracy, helping optimize combustion efficiency and reduce energy consumption.



Expansion Tank
Balances pressure fluctuations within the water system caused by temperature variation and helps protect components for more stable long-term operation.

Features

- 30-80°C wide heating range, suitable for various residential heating needs
- Compatible with Japanese-style dry-installed underfloor heating for faster heating performance
- Stable hot water temperature, supporting multiple outlets without interference
- Built-in Wi-Fi remote control for easy monitoring and adjustment of system operation
- Active freeze protection for reliable heating during 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



Built-in Wi-Fi smart control



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 deliver integrated solutions for space heating and domestic hot water. They are suitable for use across different areas of the home, including kitchens, living spaces, bedrooms, and bathrooms. Compatible with Japanese-style dry-installed underfloor heating systems, they provide a faster heating performance for better comfort. In comparison to the common limitations of traditional wall-hung boilers, they support a more stable, whole-home hot water experience.



NORITZ: From Japan, Serving Customers Worldwide

With more than half a century of experience, Noritz continues to focus on the development of heating systems and hot water technologies. Headquartered in Japan, we are built on a proven HVAC manufacturing foundation to deliver competitive smart wall-hung boilers and flexible customization solutions for global partners to expand within the intelligent HVAC market.

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.



Other Gas Combi Boilers

Reliable Hot Water & Space Heating

27kW Staged-Combustion Gas Combination Boiler (Wi-Fi)

40kW Staged-Combustion Gas Combination Boiler (Wi-Fi)

27kW Gas Combination Boiler, Dual Servo Control (Wi-Fi)

30kW Dual-Servo Instant Hot Water Smart Gas Boiler (Wi-Fi)

Products

- [Tankless Water Heater \(Staged Combustion\)](#)
- [Tankless Water Heater \(Dual Servo Control\)](#)
- [Tankless Water Heater \(Basic\)](#)

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