

## NORITZ Tankless Water Heater, Model GQH-27H2FFAAI

27kW Gas Combination Boiler, Dual Servo Control

**Rated heat input**  
27 kW

**Minimum start-up flow**  
2.5 L/min

**Rated heat output**  
24 kW

**Hot water flow (ΔT = 25°C)**  
14 L/min

Noritz 27kW smart gas combination boilers are a good option for mid-to-high-end residences, including family homes and private villas that need both heating and hot water. The dual servo control system helps keep water temperature steadier in multi-bathroom scenarios, where demand can change quickly. Their built-in Wi-Fi also supports remote fault diagnosis, which can speed up troubleshooting and help reduce after-sales maintenance costs.

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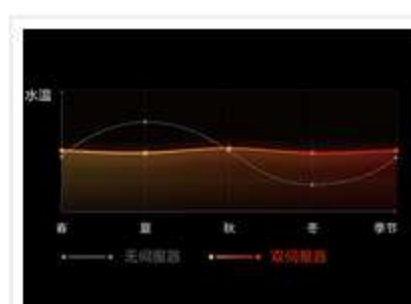
### Product Highlights



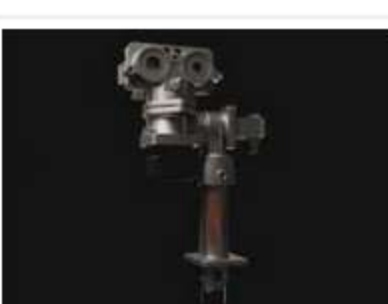
PRO-Control dual hot-and-cold servo control keeps hot water temperature very stable, up to  $\pm 0.2^{\circ}\text{C}$ , helping solve common issues seen in traditional wall-hung boilers



Multi-point use without disruption: multiple kitchen and bathroom taps can be used at the same time with less temperature fluctuation



More comfortable showers year-round: less risk of "too hot" water in summer, and warmer water in winter



Water and gas work together: a stepper motor and gas proportional valve adjust output continuously to keep temperature under control



Fast response: quick calculations and real-time inlet flow adjustment help stabilize temperature sooner



Smart mixing: If water supply is interrupted and then returns, the gas boiler prevents a sudden rush of overly hot leftover water, helping reduce scalding risk

- PRO-The comparison images are based on Noritz internal testing and are for reference only. Actual performance may vary.
- Data is taken from a test report issued by Zhejiang Fangyuan Testing and Certification Group (Report No.: 2411305892).
- Some data is sourced from the Noritz laboratory

### Technical Specifications

| Model                                      | GQH-27H2FFAAI            |
|--------------------------------------------|--------------------------|
| Rated heat input                           | 27 kW                    |
| Rated heat output                          | 24 kW                    |
| Minimum heating output                     | 8.1 kW                   |
| Minimum DHW output                         | 1 kW                     |
| Minimum start-up flow                      | 2.5 L/min                |
| Thermal efficiency                         | $\geq 89\%$              |
| Hot water flow (ΔT = 25°C)                 | 14 L/min                 |
| Dimensions (H × W × D)                     | 740 × 440 × 310 mm       |
| Weight                                     | 32.5 kg                  |
| Water-flow servo motors                    | 2                        |
| Staged combustion                          | No                       |
| Circulation pump                           | 1                        |
| 0.5°C temperature control (DHW)            | Yes (35~48°C)            |
| Heating temperature range                  | 30~80°C                  |
| Hot water temperature range                | 35~60°C                  |
| Noise level (sound power / sound pressure) | $\leq 53$ / $\leq 39$ dB |
| Wi-Fi                                      | Yes                      |

### Component Overview



**Variable-Speed Fan**  
Fan speed adjusts based on demand, which helps keep operation steady while reducing energy use and noise across different working conditions.



**Electronic Control Unit**  
The electronic control unit supports accurate temperature control and efficient operation. Safety protections and built-in fault diagnostics make status checks and troubleshooting easier.



**Sealed Combustion Chamber**  
Insulation and sound-damping materials are used on the side panels to help reduce heat loss and noise, while also helping limit vibration and wear during operation.



**Noritz Water Pump**  
Designed for quiet running to improve comfort in daily use. Self-protection functions help reduce the risk of faults.



**Dual Water-Flow Servo System**  
Controls both inlet and outlet water flow with high precision by coordinating the two flow paths. In real time, it helps keep temperature steadier during multi-point hot water use.



**Five-Pass Heat Exchanger Design**  
A five-pass heat exchanger keeps the unit compact while improving heat transfer. Larger main tubes and a longer flow path help absorb more heat.



**Italian SIT Proportional Valve**  
Regulates gas flow and pressure with fast response and high control accuracy. This supports efficient combustion and helps reduce energy use.



**Expansion Tank**  
Helps absorb pressure changes in the water system as temperature varies. It also helps buffer water hammer, protect key components, and support stable operation over time.

Component Overview

Installation Dimensions

### Features

- PRO-Control dual servo (hot + cold) keeps hot water temperature highly stable, within  $\pm 0.2^{\circ}\text{C}$
- Heating can be set across a 30~80°C range to suit different room needs
- Can be paired with Japanese-style dry underfloor heating, so the floor warms up faster
- Quiet operation is supported through noise-control design, with noise as low as 42 dB(A)
- The built-in Wi-Fi makes it easy to check the unit's status and adjust settings from a phone.
- Temperature reacts quickly thanks to 7,000 flow-control points and a response time of 0.01 s, with 24/7 dual hot-and-cold control

### Advantages



30~80°C heating range



Floor warms up in about 30 min\*



Multi-point hot water without interference



Hot water stays within  $\pm 0.2^{\circ}\text{C}$



PRO-Control dual servo control



Large touchscreen



Compatible with Japanese-style underfloor heating



Wi-Fi smart control



Quiet operation, down to 42 dB(A)



Dual anti-freeze protection

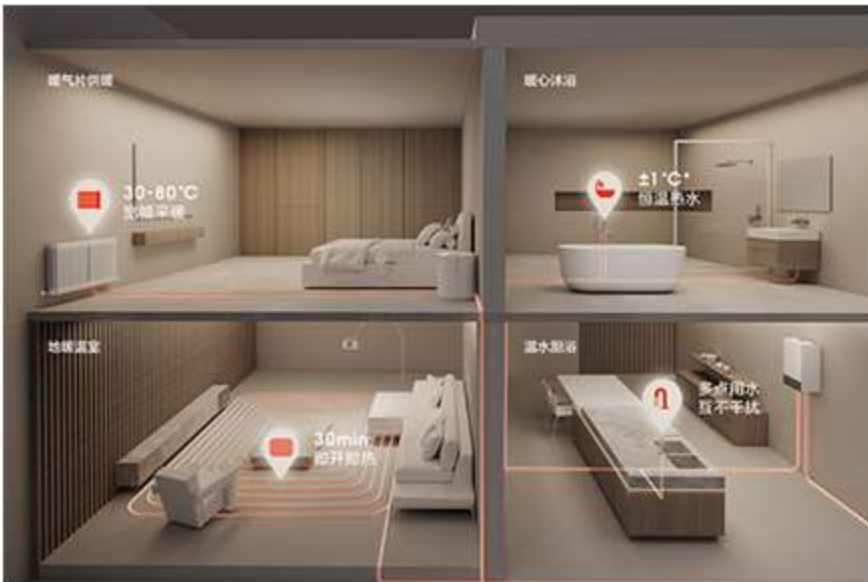


Wide heating range

- 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

Noritz H Series tankless water boilers handle both heating and hot water for homes where different spaces are used every day, kitchens, bedrooms, and bathrooms included. They are compatible with Japanese-style dry underfloor heating, helping the floor warm up faster. Compared with many traditional wall-hung boilers, temperature swings are less noticeable in daily hot water use.



#### NORITZ: From Japan, Serving Customers Worldwide

Noritz (China) focuses on developing gas wall-hung boilers that meet international standards. Dual water-flow servo temperature control is paired with smart control features to support more stable daily use. Supply partners are carefully selected on a global level, and OEM/ODM customization is available as a cost-effective option. Noritz aims to be a trusted choice for distributors and project contractors worldwide.

### 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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