

## NORITZ Tankless Water Heater, Model GQH-30H2FFAAI

30kW Gas Combination Boiler, Dual Servo Control

**Rated heat input**  
30 kW

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

**Rated heat output**  
27.5 kW

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

In villa and large-apartment projects, hot water demand can jump quickly, especially when underfloor heating is also in use. Noritz 30 kW gas combination boilers use dual water-flow servo control to help keep water temperature steady during multi-point use, while still delivering the output needed for higher-flow applications. Quiet operation down to 42 dB and Wi-Fi remote diagnosis add extra support for day-to-day operation and faster troubleshooting.

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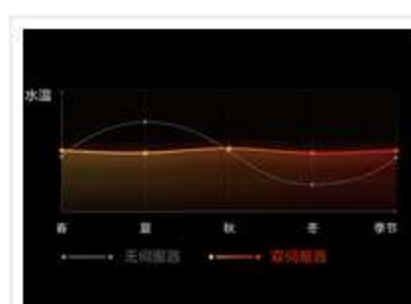
### Product Highlights



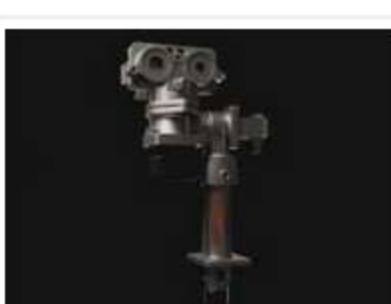
PRO-Control dual hot-and-cold servo control keeps hot water temperature very stable, up to  $\pm 0.2^{\circ}\text{C}$ , helping solve common issues seen in traditional wall-hung boilers



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-30H2FFAAI                    |
|----------------------------------------------------|----------------------------------|
| Rated heat input                                   | 30 kW                            |
| Rated heat output                                  | 27.5 kW                          |
| Minimum heating output                             | 9.8 kW                           |
| Minimum DHW output                                 | 1 kW                             |
| Minimum start-up flow                              | 2.5 L/min                        |
| Thermal efficiency                                 | $\geq 89\%$                      |
| Hot water flow ( $\Delta T = 25^{\circ}\text{C}$ ) | 16 L/min                         |
| Dimensions (H $\times$ W $\times$ D)               | 740 $\times$ 440 $\times$ 310 mm |
| Weight                                             | 32.5 kg                          |
| Water-flow servo motors                            | 2                                |
| Staged combustion                                  | No                               |
| Circulation pump                                   | 1                                |
| 0.5°C temperature step control                     | 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) supports stable hot water temperature within  $\pm 0.2^{\circ}\text{C}$
- Heating can be set across a 30~80°C range to suit different spaces and seasons
- Compatible with Japanese-style dry underfloor heating for quicker warm-up and better comfort
- Designed for quieter running, with noise levels as low as 42 dB(A)
- Features built-in Wi-Fi to support remote monitoring and simple setting adjustment
- 7,000 flow-control points and a 0.01 s response support fast temperature adjustment, 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)

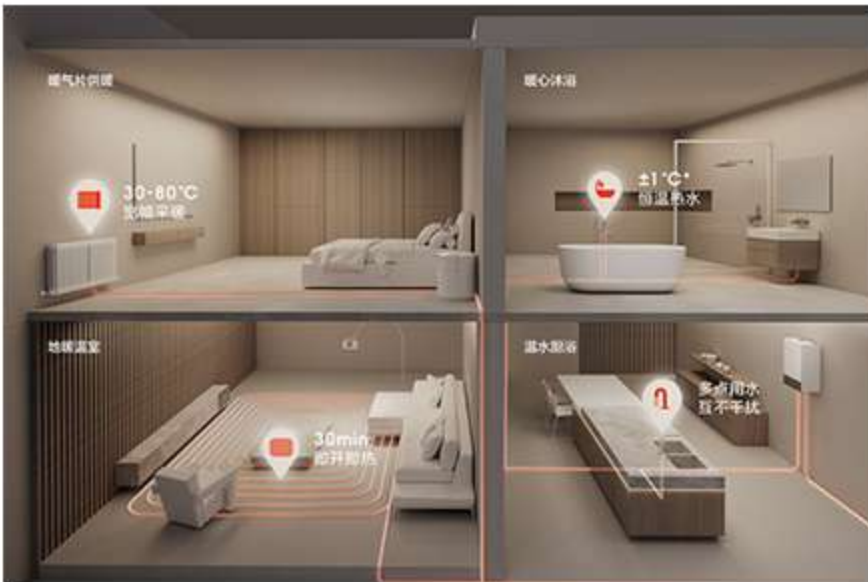
 Dual anti-freeze protection

 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 gas combination boilers provide an integrated solution for both space heating and domestic hot water. They are suitable for multiple areas of the home, such as the kitchen, bedroom, and bathroom. The heating system delivers hot water on demand and supports a Japanese-style dry underfloor heating setup, while also improving common pain points found in traditional gas boilers for more stable, whole-home water temperature control.



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

Noritz (China) focuses on providing heating solutions for the global HVAC market that meet international standards. For project contractors and kitchen appliance distributors, Noritz offers heating solutions that stay competitive and are built for lower maintenance. These heating solutions are designed to meet the demanding requirements of large residential homes and light commercial heating projects.

### 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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22kW Gas Combination Boiler (Wi-Fi)

20kW Staged-Combustion Gas Combination Boiler (Wi-Fi)

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