

NORITZ Tankless Water Heater, Model GQH-40H2FFAAI

40kW Gas Combination Boiler, Dual Servo Control

Rated heat input
40 kW

Minimum start-up flow
2.5 L/min

Rated heat output
36 kW

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

Noritz 40kW gas combination boilers were developed for projects with high hot water demand. They are designed for high-end villas and light commercial applications, and the dual water-flow servo constant-temperature system helps keep outlet temperature stable even when multiple taps are used at the same time. They support both underfloor heating and radiator heating. The noise-reduction design of these gas boilers helps improve comfort, and Wi-Fi remote service support makes operation and maintenance more convenient in larger heating areas.

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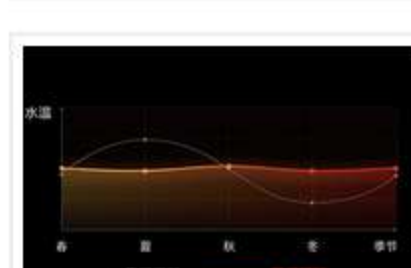
Product Highlights



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-40H2FFAAI
Rated heat input	40 kW
Rated heat output	36 kW
Minimum heating output	14 kW
Minimum DHW output	1 kW
Minimum start-up flow	2.5 L/min
Thermal efficiency	$\geq 89\%$
Hot water flow ($\Delta T = 25^{\circ}\text{C}$)	20 L/min
Dimensions (H x W x D)	738 x 510 x 350 mm
Weight	40.5 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)	≤ 53 / ≤ 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-dampening 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

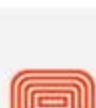
Features

- PRO-Control dual servo temperature control helps keep hot water temperature steady (up to $\pm 0.2^{\circ}\text{C}$)
- Heating temperature range from 30~80°C supports different heating needs
- Works with Japanese-style dry underfloor heating for quicker comfort after start-up
- Quieter operation with noise as low as 42 dB(A)
- Wi-Fi remote access makes it simple to check operating status and confirm the unit is running normally
- Fine water-flow adjustment and fast response support stable temperature control throughout the day

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, making them suitable for different areas of the home, including kitchens, bedrooms, and bathrooms. They can be paired with Japanese-style dry underfloor heating for on-demand comfort, while also helping improve common issues seen in traditional wall-hung boilers to deliver a more stable whole-home hot water experience.



NORITZ: From Japan, Serving Customers Worldwide

As a trusted global partner in heating, Noritz is headquartered in Japan and focuses on competitive heating solutions for the mid- to high-end HVAC market. Noritz aims to address common pain points seen with traditional heating equipment, including noise, energy consumption, and maintenance. Flexible OEM/ODM customization support is also available to help partners serve higher-end residential and commercial HVAC projects with stronger profit potential.

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)

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