

NORITZ Tankless Water Heater, Model GQH-40H1FFAI

40kW Gas Combination Boiler, Staged Combustion

Rated heat input
40 kW

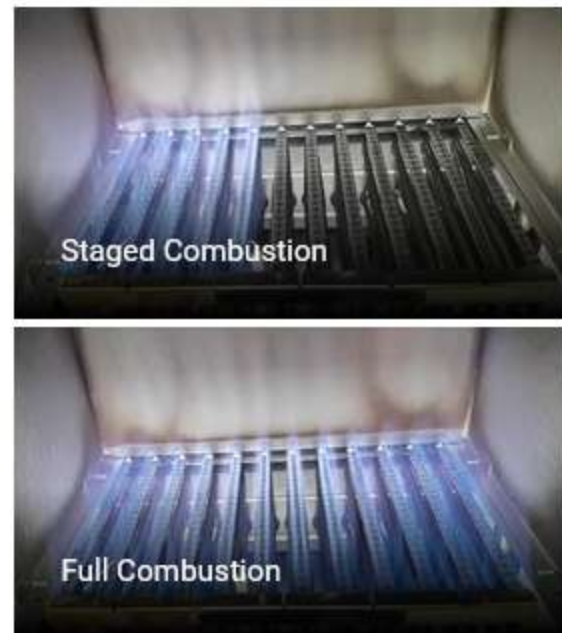
Minimum start-up flow
2.5 L/min

Rated heat output
36 kW

Hot water flow (ΔT = 25°C)
20 L/min

Noritz 40 kW staged-combustion gas combination boilers are aimed at projects that need higher output and more flexible control. Wi-Fi remote control supports real-time adjustments and lets users check operating status easily. These boilers can be applied to heating and hot water systems in private homes, commercial residential buildings, and hotels. Staged combustion also allows the flame to adjust automatically to the load, which helps reduce unnecessary gas use in large-area residential and commercial office heating applications.

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Benefits of Staged Combustion

- Heating temperature settings cover 30–80°C, suitable for different space-heating needs
- Outdoor flue discharge design helps improve efficiency and reduce energy use
- Hot water stays more consistent during multi-point use, even when outlets run at the same time
- Noise is kept low, with operation down to 42 dB(A)
- Active anti-freeze protection supports stable winter operation

Technical Specifications

Model	GQH-40H1FFAI
Rated heat input	40 kW
Rated heat output	36 kW
Minimum heating output	14 kW
Minimum DHW output	7.8 kW
Minimum start-up flow	2.5 L/min
Thermal efficiency	≥89%
Hot water flow (ΔT = 25°C)	20 L/min
Dimensions (H × W × D)	738 × 510 × 350 mm
Weight	41 kg
Water-flow servo motors	0
Staged combustion	Yes
Circulation pump	1
0.5°C temperature step control	No
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

 Combustion Fan A fixed-speed fan supports stable operation and broad compatibility. Reliable start-up performance makes it suitable for higher-load conditions.	 Electronic Controller Provides accurate temperature control and efficient operation. Includes safety protections, convenient smart functions, and fault diagnosis for easier maintenance.
 Sealed Combustion Chamber Side panels use insulating and sound-damping materials to reduce noise and help prevent friction and resonance. H-series gas boilers can operate at noise levels as low as 42 dB(A)*	 Noritz Water Pump Designed for quiet operation to improve comfort. Features built-in self-protection to help reduce fault risk.
 Sectional Valve Supports staged combustion control for finer, more precise flame adjustment.	 Five-Stage Heat Exchanger Design Keeps the unit compact while improving heat absorption. Larger main tubes and a longer heat-exchange path help capture heat more effectively.
 Italian SIT Proportional Valve Precisely regulates gas flow and pressure with fast response. Helps optimize combustion efficiency and reduce energy use.	 Expansion Tank Balances pressure changes in the water circuit and compensates for volume shifts as temperatures change. Helps protect components and supports stable operation.
Component Overview	Installation Dimensions

Advantages

 30–80°C temperature range	 Floor heating ready in 30 minutes*	 Supports several taps at once	 Temperature holds within ±1°C*
 Wide heating range	 Compatible with Japanese-style underfloor heating	 Stable water temperature	 Wi-Fi smart control
 Lower-noise operation, with sound levels as low as 42 dB(A)	 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

- Radiator heating: Set within 30–80°C to match different rooms and seasonal needs
- Shower comfort: Hot water stays stable, with temperature changes around ±1°C
- Floor heating: Quick warm-up in typical use, often about 30 minutes
- Kitchen + bathroom: Multi-point hot water use stays steady, so outlets can run together with less interference



NORITZ: From Japan, Serving Customers Worldwide

Noritz is a Japan-based manufacturer with a long track record in hot water and heating technology. With over 70 years of R&D experience, Noritz supplies energy-saving, high-output hot water and heating systems for projects ranging from private residences to commercial buildings. Partners choose Noritz for competitive thermal solutions and reliable global supply chain support.

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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