

NORITZ Tankless Water Heater, Model GQH-27H3FFAQI

27kW Gas Combination Boiler, Dual Servo Control, Instant Hot Water

Rated heat input
27 kW

Minimum start-up flow
2.5 L/min

Rated heat output
24 kW

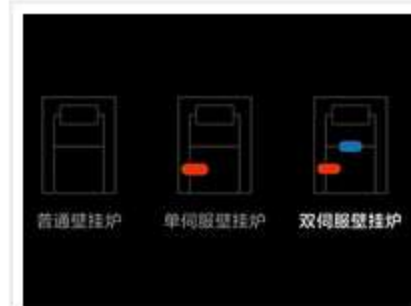
Hot water flow ($\Delta T = 25^{\circ}\text{C}$)
14 L/min

These 27kW gas combination boilers are designed for instant hot water and use dual water-flow servo temperature control to help keep outlet temperature steady. The integrated circulation function reduces waiting time at the tap and helps cut down start-up water waste. Their noise-reduction design supports quieter operation, while Wi-Fi smart control allows convenient monitoring during daily use.

[Leave a Message](#)



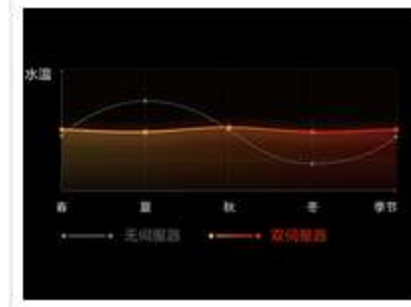
Product Highlights



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



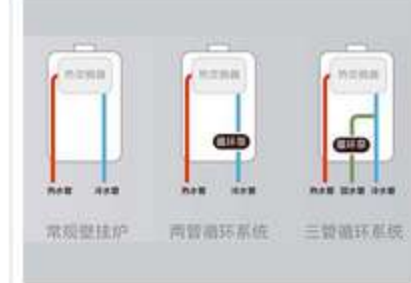
Water and gas work together: a stepper motor and gas proportional valve adjust output continuously to keep temperature under control



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



Upgraded three-pipe circulation system: In addition to the inlet and outlet lines, a dedicated return line creates a separate circulation loop for smoother hot water delivery



Built-in high-quality circulation pump: supports circulation loops up to 120 m and is designed to handle high temperature and corrosion for more stable operation

- 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-27H3FFAQI
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 ($\Delta T = 25^{\circ}\text{C}$)	14 L/min
Dimensions (H x W x D)	740 x 440 x 310 mm
Weight	34 kg
Water-flow servo motors	2
Staged combustion	No
Circulation pump	2
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 to support stable operation, lower energy use, and quieter running, while providing more precise airflow control across different scenarios.



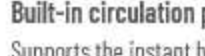
Electronic Control Unit
Helps manage temperature accurately and improve efficiency. It also supports safety protections, user-friendly operation, and basic fault diagnostics for easier maintenance.



Sealed Combustion Chamber
Uses insulation and sound-dampening materials to reduce heat loss and noise. Side-wall protection also helps reduce friction and vibration.



Noritz Water Pump
Designed for quieter operation and improved comfort, with self-protection functions that help reduce fault risk.



Built-in circulation pump
Supports the instant hot water function, reducing waiting time at the tap and helping cut down on water waste, while improving heating and hot water use.



Dual Water-Flow Servo System
Controls inlet and outlet flow more precisely. By coordinating two flow paths, it helps keep water temperature steadier during multi-point use.



Five-Pass Heat Exchanger Design
Helps maximize heat transfer in a compact layout, with a larger main passage and longer heat-exchange flow path for more effective heat absorption.



Italian SIT Gas Proportional Valve
Regulates gas flow and pressure with higher precision and fast response, helping support stable combustion and better energy use.



Expansion Tank
Helps balance pressure changes in the water system, compensates for volume changes caused by temperature shifts, reduces water hammer, and supports more stable operation.



Component Overview



Installation Dimensions

Features

- Three-pipe instant hot water circulation system helps deliver hot water faster across the home
- PRO-Control dual servo temperature control helps keep hot water temperature stable (up to $\pm 0.2^{\circ}\text{C}$)
- Compatible with Japanese-style dry underfloor heating for quick comfort after start-up
- Adjustable heating temperature from 30–80°C supports different heating needs
- Large glass touch display provides responsive control with a clean, simple interface

Advantages



30–80°C heating range



Floor warms up in about 30 min*



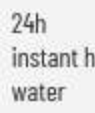
Multi-point hot water without interference



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



PRO-Control dual servo control



24h instant hot water
24h instant hot water



Compatible with Japanese-style underfloor heating



Wide heating range



Quiet operation, down to 42 dB(A)



Dual anti-freeze protection



Wi-Fi smart control



Large touchscreen

- The "Floor heating ready in 30 minutes" claim is based on Noritz lab testing. Results may vary depending on real use.
- Data is taken from a test report issued by Zhejiang Fangyuan Testing and Certification Group (Report No.: 2411305892).

Applications

Noritz H Series wall-hung boilers combine space heating and domestic hot water in one solution, 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 faster comfort after start-up, while also improving common issues seen with traditional boilers to support more stable whole-home hot water temperature.



NORITZ: From Japan, Serving Customers Worldwide

Noritz (China) uses more than 50 years of R&D experience from the Japan headquarters. By integrating IoT features, it aims to improve day-to-day user experience and offers flexible OEM/ODM customization options for HVAC equipment. Supported by an established kitchen and water-heating supply chain, Noritz (China) provides HVAC project solutions with reliable performance and dependable after-sales 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.



E-mail*

Name

Phone

WhatsApp

Company

Message*

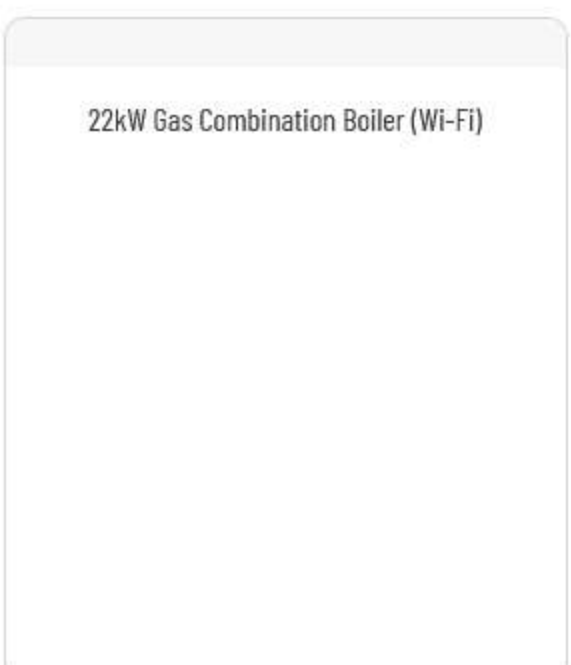
Send

Other Gas Combi Boilers

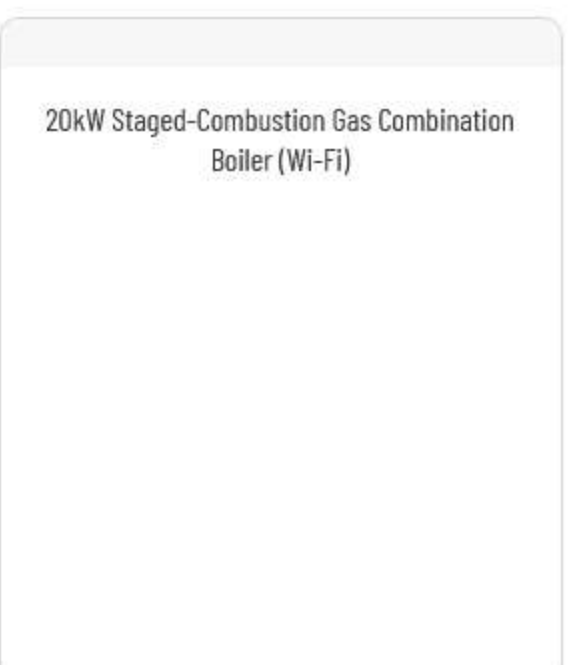
Reliable Hot Water & Space Heating



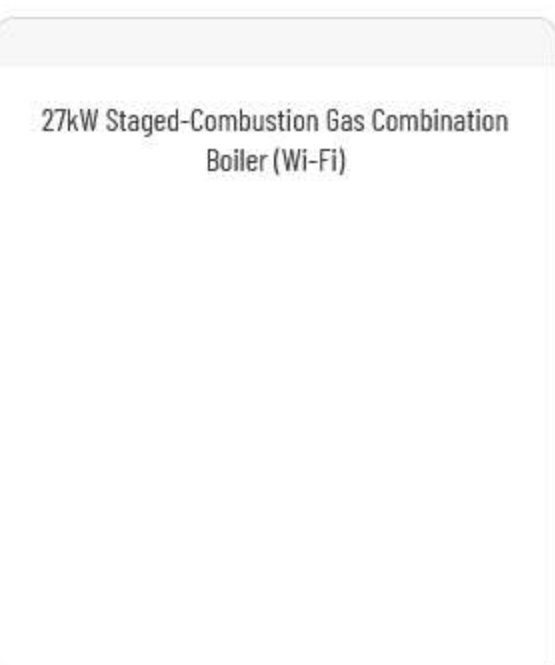
27kW Basic Gas Combination Boiler



22kW Gas Combination Boiler (Wi-Fi)



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



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