

NORITZ Tankless Water Heater, Model GQH-27H1FFAI

27kW Gas Combination Boiler, Staged Combustion

Rated heat input
27 kW

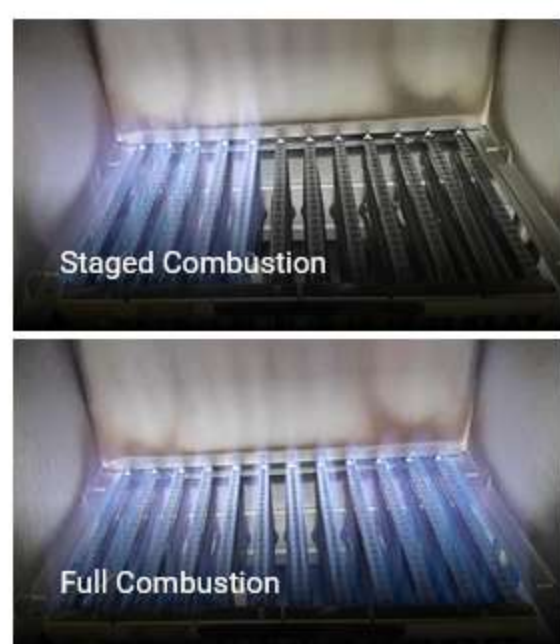
Minimum start-up flow
2.5 L/min

Rated heat output
24 kW

Hot water flow (ΔT = 25°C)
16 L/min

Noritz 27 kW staged-combustion gas wall-hung boilers are built for larger residential layouts and commercial heating projects. Thanks to their phone-based remote control, settings can be adjusted on the go, and the boiler status can be checked in real time, which makes day-to-day operation more convenient. Their sealed combustion and noise-reduction features help keep the operating noise down to 42 dB, which makes these gas combination boilers suitable for both home and office environments.

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Benefits of Staged Combustion

- Heating temperature can be set within 30–80°C to suit different space-heating needs
- Outdoor flue discharge supports efficient operation and lower energy use
- Stable hot water supply helps when multiple outlets are used at the same time
- Quiet operation, with noise levels as low as 42 dB(A)
- Active anti-freeze protection supports reliable operation in cold weather



Technical Specifications

Model	GQH-27H1FFAI
Rated heat input	27 kW
Rated heat output	24 kW
Minimum heating output	9.8 kW
Minimum DHW output	5 kW
Minimum start-up flow	2.5 L/min
Thermal efficiency	≥89%
Hot water flow (ΔT = 25°C)	16 L/min
Dimensions (H × W × D)	740 × 440 × 310 mm
Weight	32.5 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 is used for stable operation and broad compatibility. It starts reliably and works well even under higher-load conditions.



Electronic Controller
The controller supports accurate temperature control and efficient operation. It also includes multiple safety protections, user-friendly controls, and built-in fault detection to make troubleshooting and maintenance easier.



Sealed Combustion Chamber
The sealed combustion chamber is designed with insulation and sound-reducing materials to help protect internal parts and reduce noise. The H-series wall-hung boilers also use additional noise-control measures, with sound levels that can be as low as 42 dB(A)*.



Noritz Water Pump
Noritz water pumps are designed for quieter operation to improve comfort in daily use. They also include smart self-protection features that help reduce the risk of faults over time.



Sectional Valve
The sectional valve supports staged combustion control, so flame output can be adjusted in steps. This makes control more stable and more precise during operation.



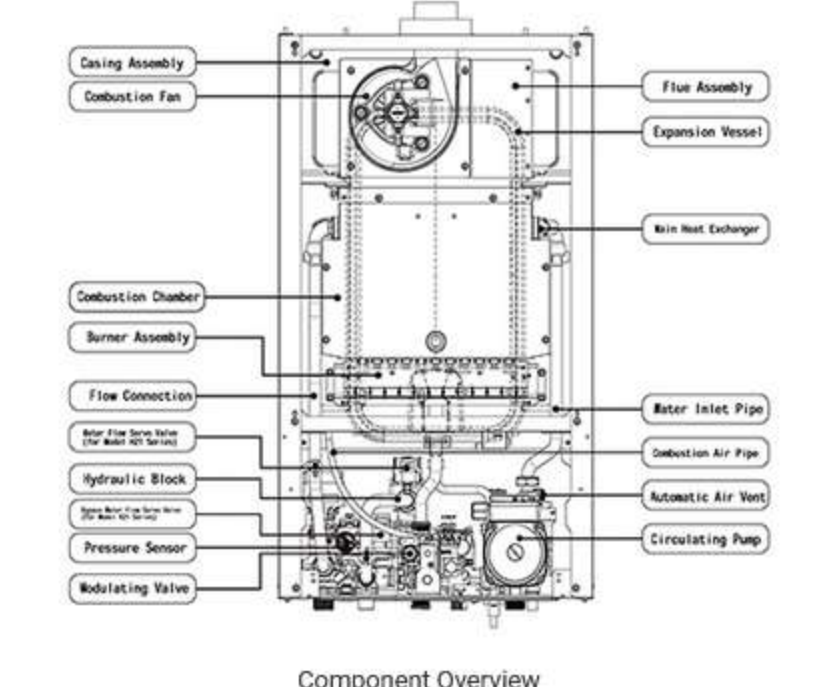
Five-Stage Heat Exchanger Design
A five-stage heat exchanger structure helps keep the overall size compact while improving heat transfer. Thanks to the larger main tubes and a longer heat-exchange path, more heat can be captured and used efficiently.



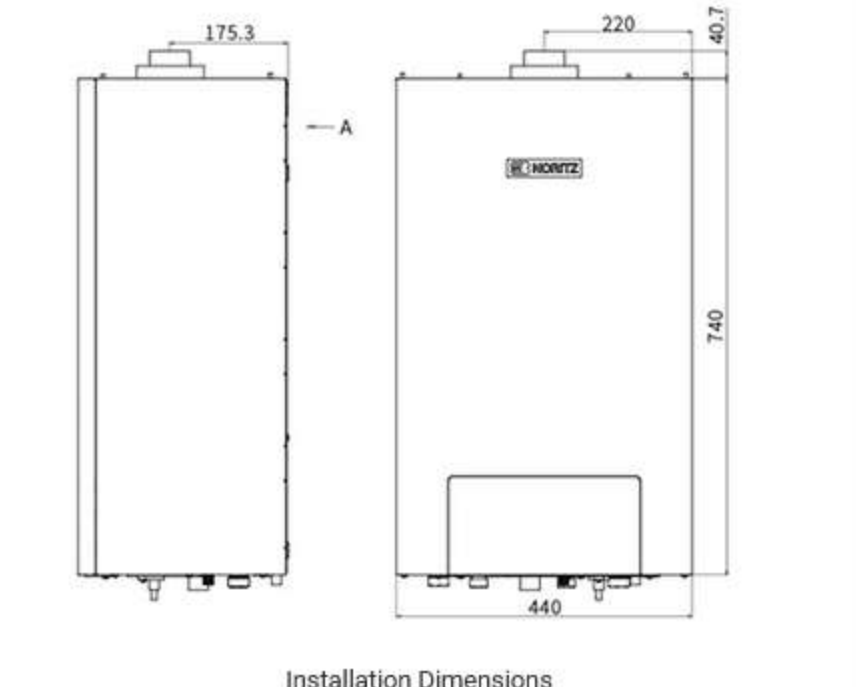
Italian SIT Proportional Valve
A proportional valve from the Italian brand SIT is used to adjust gas flow and pressure. Since the adjustment is more precise and reacts quickly, the burner can run more smoothly and waste less gas, which improves efficiency.



Expansion Tank
The expansion tank helps absorb pressure changes in the water circuit as temperature rise and fall. By keeping pressure more stable, it protects key components and supports more consistent operation over time.



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

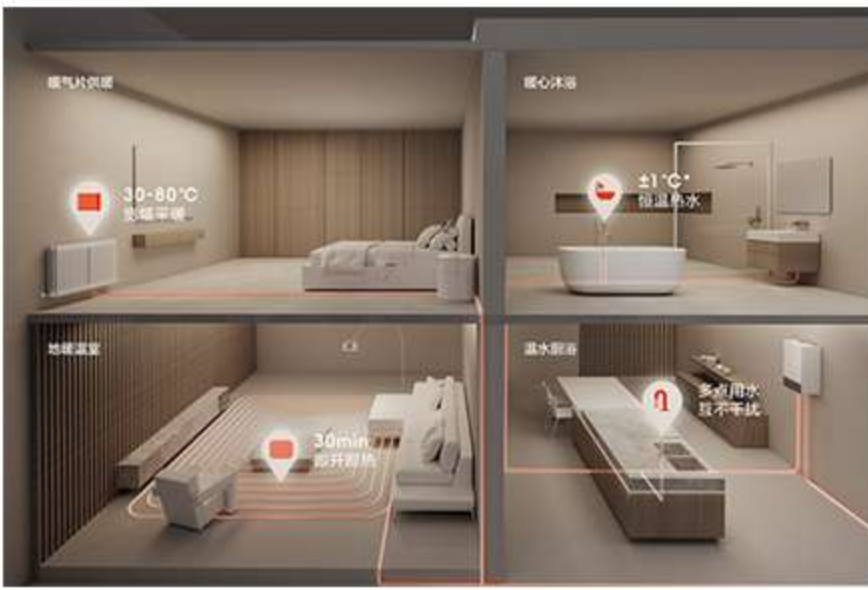


Large touch display

- * 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: Temperature can be set within 30–80°C to suit different rooms and seasonal needs
- Shower comfort: Stable hot water helps keep temperature changes small (about ±1°C)
- Floor heating: Faster warm-up in typical use, often around 30 minutes
- Kitchen + bathroom: Supports multi-point hot water use, so outlets can run together with minimal interference



NORITZ: From Japan, Serving Customers Worldwide

Noritz is headquartered in Japan and has focused on R&D in residential and commercial heating systems and hot water technology for more than 50 years. Energy saving, comfort, and stable performance remain the core priorities. For dealers and engineering contractors, Noritz provides gas boiler solutions with strong cost performance and supports flexible OEM/ODM services to help partners expand in international HVAC markets.

Inquiry Form

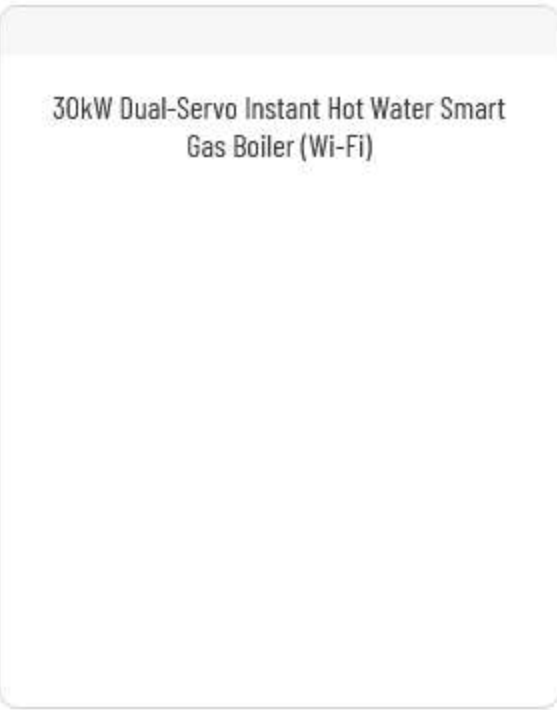
Energy-saving heating equipment continues to be developed to help reduce environmental impact risks, with the goal of supporting a comfortable warm-water lifestyle for users worldwide.



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-  Wuxin
-  wuxin@noritz-china.co
-  +86-15201737297