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- › [SNDOAS](#) /
 - › SNDOAS Tankless Hot Water Heater Natural Gas, 4.23 GPM, 85,300 BTU (Model IF.JSQ25-B13NA) - Instruction Manual

SNDOAS IF.JSQ25-B13NA

SNDOAS Tankless Hot Water Heater Natural Gas

MODEL: IF.JSQ25-B13NA

1. Introduction and Product Overview

Thank you for choosing the SNDOAS Tankless Hot Water Heater. This manual provides essential information for the safe and efficient installation, operation, and maintenance of your new appliance. This unit is designed to provide instant and continuous hot water for your household needs, operating on natural gas with a forced exhaust system for indoor use.

The SNDOAS Tankless Hot Water Heater delivers up to 4.23 GPM (16 L/min) flow rate, making it suitable for whole-house applications, effortlessly handling multiple showers and appliances simultaneously without waiting for water to heat up. It features an oxygen-free copper heat exchanger for rapid heating and excellent thermal efficiency, along with a smart LED display for real-time temperature and usage monitoring. The unit maintains water within $\pm 2^{\circ}\text{F}$ of your set point (95°F–149°F).



The SNDOAS Tankless Hot Water Heater, a compact black unit designed for indoor use, featuring an intuitive LED display on its front panel.

2. Safety Information

WARNING: Improper installation, adjustment, alteration, service, or maintenance can cause property damage, injury, or death. Read the installation, operating, and maintenance instructions thoroughly before installing or servicing this equipment.

- This appliance must be installed by a qualified professional in accordance with all local codes and regulations.
- Ensure adequate ventilation and proper exhaust system installation to prevent carbon monoxide buildup.
- Do not store flammable materials near the water heater.
- This unit operates on natural gas only. Do not attempt to use propane or any other fuel type.
- Always disconnect power and shut off the gas supply before performing any maintenance or service.

3. Product Features

- **High-Efficiency On-Demand Hot Water:** Delivers 4.23 GPM (16 L/min) for continuous hot water.
- **Forced Exhaust System:** Safely vents combustion gases outside, preventing CO buildup.
- **Natural Gas Operation:** Designed exclusively for natural gas, ensuring consistent performance.
- **Copper Heat Exchanger:** Oxygen-free copper for rapid heating and thermal efficiency.
- **Precise Temperature Control:** Smart LED display with temperature control within $\pm 2^{\circ}\text{F}$ (95°F – 149°F).
- **Quiet Operation:** Runs quietly, suitable for indoor spaces like kitchens or bathrooms.
- **Wall-Mounted Design:** Compact and mounts neatly on any wall.
- **User-Friendly Interface:** Intuitive panel displays temperature, settings, error codes, and consumption.

4.23 GPM Tankless Gas Water Heater

Effortlessly meets your household's continuous hot water needs



The 4.23 GPM flow rate of this tankless gas water heater is sufficient to meet continuous hot water demands for various household uses, including bathroom sinks, kitchen faucets, and bathing.



Continuous Hot Water On Demand

Provides a steady supply of hot water for simultaneous use at 2-3 outlets.



Consistent Temperature

Temperature variation less than 2°F(1°C) per click, with a preset range of 95°F to 149°F.



Instant Heating

Delivers hot water quickly, so you spend less time waiting and more time enjoying.



The system provides continuous hot water on demand, capable of supplying 2-3 outlets simultaneously with consistent temperature and instant heating, suitable for whole-house applications.

4. Installation

Installation of this tankless water heater requires knowledge of plumbing, gas, and electrical systems. It is highly recommended that installation be performed by a licensed professional to ensure safety and compliance with all local codes.

4.1. Mounting the Unit

Select a suitable indoor location with adequate ventilation. The unit must be mounted vertically on a sturdy wall capable of supporting its weight. Ensure there is sufficient clearance around the unit for maintenance and proper airflow.

Compact Design Saves Valuable Space



This image illustrates the compact dimensions of the tankless water heater, measuring 13.78 inches in width and 21.65 inches in height, allowing for space-saving installation.

4.2. Gas Connection

Connect the natural gas supply line to the 'GAS INLET' port on the unit. Ensure all gas connections are tight and leak-free. This unit is designed for natural gas only.

4.3. Water Connections

Connect the cold water supply line to the 'WATER INLET' port and the hot water output line to the 'WATER OUTLET' port. Use appropriate plumbing fittings and ensure all connections are secure to prevent leaks.

4.4. Electrical Connection

Plug the unit into a standard 120V/60Hz electrical outlet. The unit comes with a 3-prong plug. Ensure the outlet is properly grounded.



The user-friendly touch control panel features power and temperature adjustment buttons, powered by a standard 3-prong plug for easy electrical connection.

4.5. Exhaust System

Install the provided exhaust pipe to safely vent combustion gases outside. This is a forced exhaust unit, and proper venting is critical for safety. Do not vent into an enclosed space.

Wall-mounted Design for Indoor Installation



This diagram illustrates the wall-mounted design for indoor installation, emphasizing the forced exhaust system that safely vents combustion gases outdoors.



To function safely and efficiently, position in a well-ventilated space.

This diagram details the connections for the water outlet (1/2 NPT), gas inlet (1/2 NPT), water inlet (1/2 NPT), and power cord, highlighting the importance of positioning the unit in a well-ventilated area for safe and efficient operation.

5. Operating Instructions

5.1. Initial Startup

1. Ensure all gas and water connections are secure and leak-free.
2. Open the cold water supply valve to the unit.
3. Open a hot water faucet in your home to purge air from the water lines. Close the faucet once water flows steadily.
4. Turn on the gas supply to the unit.
5. Plug the power cord into the electrical outlet.

5.2. Setting Temperature

Use the touch control panel on the front of the unit to adjust the desired water temperature. The LED display will show the current temperature setting. Press the 'Warm up' (up arrow) or 'Cool down' (down arrow) buttons to adjust. The temperature range is 95°F to 149°F.

Instant Water Heater



• No preheating needed



• Hot water on demand



• Saving you time



Enjoy instant hot water without preheating, providing hot water on demand and saving time, as depicted by a person relaxing in a bathtub.

6. Maintenance

Regular maintenance ensures the longevity and efficient operation of your tankless water heater. Always turn off the power and gas supply before performing any maintenance.

- **Annual Inspection:** Have a qualified technician inspect the unit annually, including the heat exchanger, burner, and exhaust system.
- **Ventilation Check:** Ensure the exhaust vent is clear of obstructions and the area around the unit is well-ventilated.
- **Cleaning:** Periodically clean the exterior of the unit with a soft, damp cloth. Do not use abrasive cleaners.
- **Water Filter (if applicable):** Check and clean any inline water filters to prevent sediment buildup.
- **Descaling:** In areas with hard water, periodic descaling of the heat exchanger may be necessary to maintain efficiency. Consult a professional for this service.

7. Troubleshooting

If you encounter issues with your water heater, refer to the following common troubleshooting steps. For complex problems, contact a qualified technician.

Problem	Possible Cause	Solution
No hot water	No power, no gas, water supply off, error code	Check power/gas supply, open water valve, check LED display for error codes and consult manual.
Low hot water flow	Sediment buildup, clogged filter, low water pressure	Clean water filter, descale unit (professional service), check household water pressure.
Water not hot enough	Temperature setting too low, high flow rate, cold inlet water temperature	Increase temperature setting, reduce flow rate at faucet, consider colder incoming water.
Unit displays error code	Specific malfunction	Refer to the error code section in the full manual (if available) or contact customer support.

8. Specifications

Natural Gas Tankless Water Heater



4.23 GPM

Hot Water Output



6.98" w.c. (1.74 kPa)

Inlet Gas Pressure



150 PSI

Max Water Pressure



85,300 Btu/hr

Max Input Rating



95°F~149°F

Temperature Range

Detailed specifications highlight the unit's performance, including a 4.23 GPM hot water output, 85,300 BTU/hr maximum input, and a temperature range of 95°F to 149°F.

Feature	Value
Brand	SNDOAS
Model Number	IF.JSQ25-B13NA
Power Source	Natural Gas
Product Dimensions (W x H)	13.8"W x 21.6"H
Special Feature	LED Display
Color	Black
Voltage	120 Volts

Feature	Value
Flow Rate	4.23 Gallons Per Minute
Maximum Temperature	149 Degrees Fahrenheit
Heat Output	85300 British Thermal Units
Efficiency	High-Efficiency
Mount Type	Wall
Is Electric	No (refers to primary heating source, unit requires 120V for controls)
Included Components	Touch Control, Exhaust Pipe, Showerhead

9. Warranty and Support

SNDOAS products are manufactured to high-quality standards and are backed by a manufacturer's warranty. For specific warranty details, please refer to the warranty card included with your product or visit the official SNDOAS website.

For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact SNDOAS customer service. Contact information can typically be found on the product packaging, in the included documentation, or on the brand's official website.

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