Quick Installation Guide

Model NPE-180A2 / 210A2 / 240A2 NPE-150S2/180S2 / 210S2 / 240S2



STEP 1 Before Installing

Read the Installation Manual before installing. /!\

This product must be installed and serviced by a licensed plumber, a licensed gas fitter, or a professional service technician. Navien is not liable for any damages or defects resulting from improper installation. When applicable, the installation must conform with Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280 and/or CAN/CSA Z240 MH Series, Mobile Homes.



Do not install this water heater in a recreational vehicle, trailer, boat or other vehicular type unit as it will result in a Carbon Monoxide Poisoning Hazard.

/!\ WARNING

Follow all local codes and/or the most recent edition of the National Fuel Gas Code (ANSI Z223.1/NFPA 54) in the USA, or the Natural Gas and Propane Installation Code in Canada (CAN/CGA B149.1).

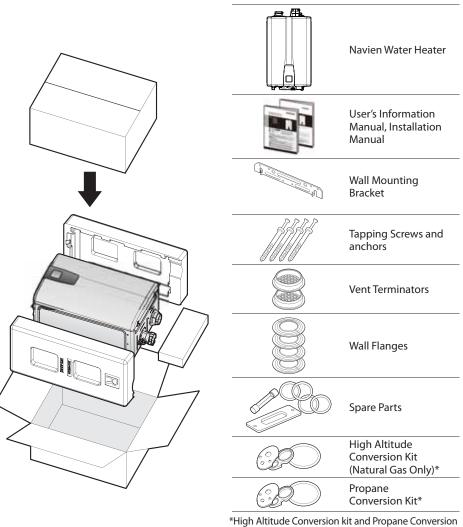
Safety



DO NOT install in areas with excessively high humidity.

STEP 2 Installing

1 Unpacking



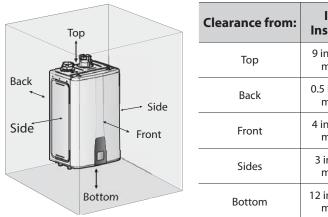
B Mounting on t

		Manual
/		Wall Mounting Bracket
	<u> IIII</u> II	Tapping Screws and anchors
		Vent Terminators
		Wall Flanges
57		Spare Parts
7	$ \begin{array}{c} \begin{array}{c} \end{array} \\ \end{array} $	High Altitude Conversion Kit (Natural Gas Only)*
	<u>P</u>	Propane Conversion Kit*
	*High Altitude Conversion kit are attached to the ins	kit and Propane Conversion ide of Product's case.
the Wall		

Location Requirements

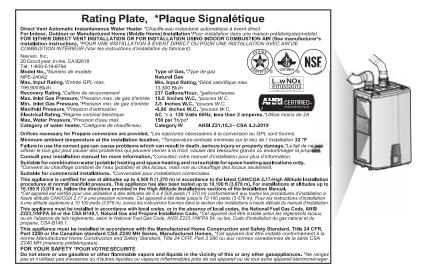
Select the best location on "Choosing an Installation Location" in the Installation Manual.

Allowable minimum clearances



Clearance from:	Indoor Installation	Outdoor Installation	
Тор	9 in (229 mm) minimum	36 in (900 mm) minimum	
Back	0.5 in (13 mm) minimum	0.5 in (13 mm) minimum	
Front	4 in (100 mm) minimum	24 in (600 mm) minimum	
Sides	3 in (76 mm) minimum	3 in (76 mm) minimum	
Bottom	12 in (300 mm) minimum	12 in (300 mm) minimum	

Checking the Rating Plate



This water heaters come from the factory configured for use with Natural Gas (NG). Before starting the installation, check the rating plate located on the side of the water heater to ensure that the water heater matches the gas type, gas pressure, water pressure, and electrical supply available in the installation location. If the water heater does not match each of these ratings, do not install the water heater. If conversion to Propane Gas is required, the included Propane conversion kit must be used.

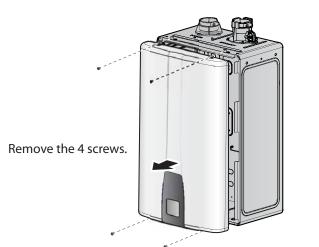
WARNING

- Before connecting the gas supply, determine the gas type and pressure for the water heater by referring to the rating plate. Use only the same gas type indicated on the rating plate. Using a different gas type will result in abnormal combustion and malfunction of the water heater. Gas supplies should be connected by a licensed professional only.
- The appliance and its gas connection must be leak tested before placing the appliance in operation.
- This water heater cannot be converted from natural gas to propane or vice versa without a Navien gas conversion kit. Do not attempt a field conversion of this water heater without a Navien gas conversion kit. Doing so will result in dangerous operating conditions and will void the warranty.

Navien Inc. is not liable for any property damage and/or personal injury resulting from improper conversions.

4 Removing the Front Cover

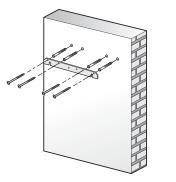


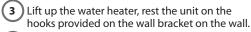


Do not install the water heater on drywall without proper reinforcement.

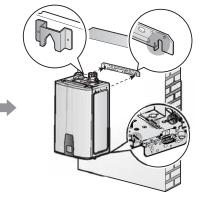
(1) Drill in the supplied anchor bolts after considering where the vent termination will be located.

(2) Secure the mounting bracket to the wall with the tapping screws and anchors.

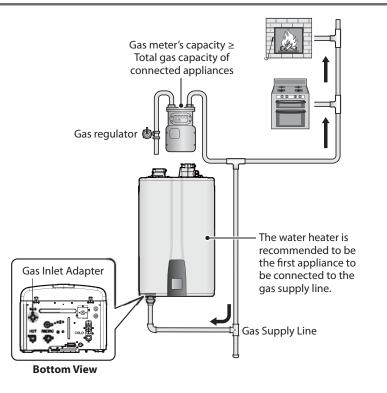




Install two set screws through the bracket at (4) the bottom of the water heater to secure the water heater on the wall.



G Gas Piping Connections



Example:

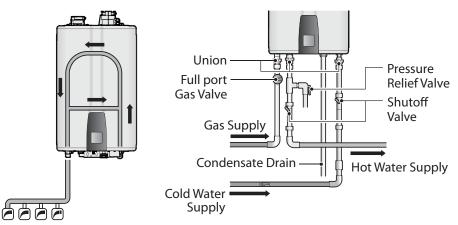
Gas meter 425 CFH	≥	Water heater 195 CFH	+	Furnace 58.8 CFH	+	Domestic gas stove 63.7CFH
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* 1 CFH=1,020 Btuh

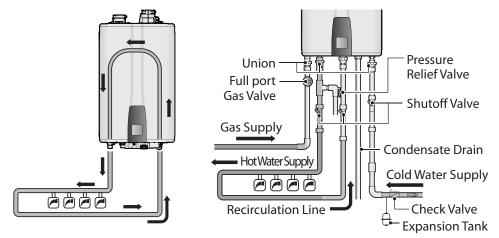
 $1/2^{"}$ rigid pipe can be used; refer to the sizing tables in the Installation Manual for limitations. Avoid using 1/2" corrugated connectors or tubing as noise may occur.

6 Water Piping Connections (NPE-180A2/210A2/240A2)

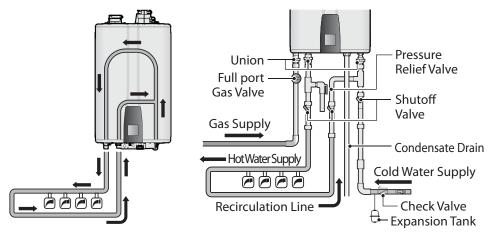
Internal Recirculation



External Recirculation using the Cold Water Inlet



External Recirculation using the Recirculation Inlet



Internal Recirculation Settings

Press the Menu button (M) to access the Main menu, and select 1. **Recirculation Setting > 3. Internal** Recirculation by pressing the OK button (OK).

Model	Step 1	Step 2	Step 3
A-type	Int. Recirc	Always On	N/A
		Intelligent	N/A
		Weekly	Schedule Set

External Recirculation Settings

Press the Menu button (M) to access the Main menu, and select 1. **Recirculation Setting > 2. External** Recirculation by pressing the OK button (OK).

Model	Step 1	Step 2	Step 3
A-type	Ext. Recirc	Use Ext. Pump Yes/No	Always On
			Intelligent
			Weekly
			On-demand

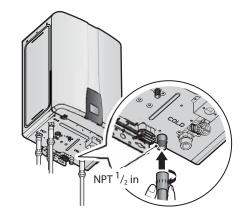
Condensate Drain Connection

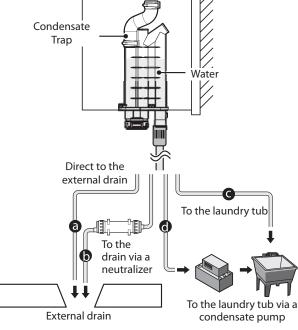
A condensate drain pipe must be connected to the 1/2" condensate outlet fitting at the bottom of the unit and water must be poured into the exhaust connection to fill the condensate trap.

The end of the 1/2" (NPT) plastic piping should drain into a laundry tub or into a floor drain.

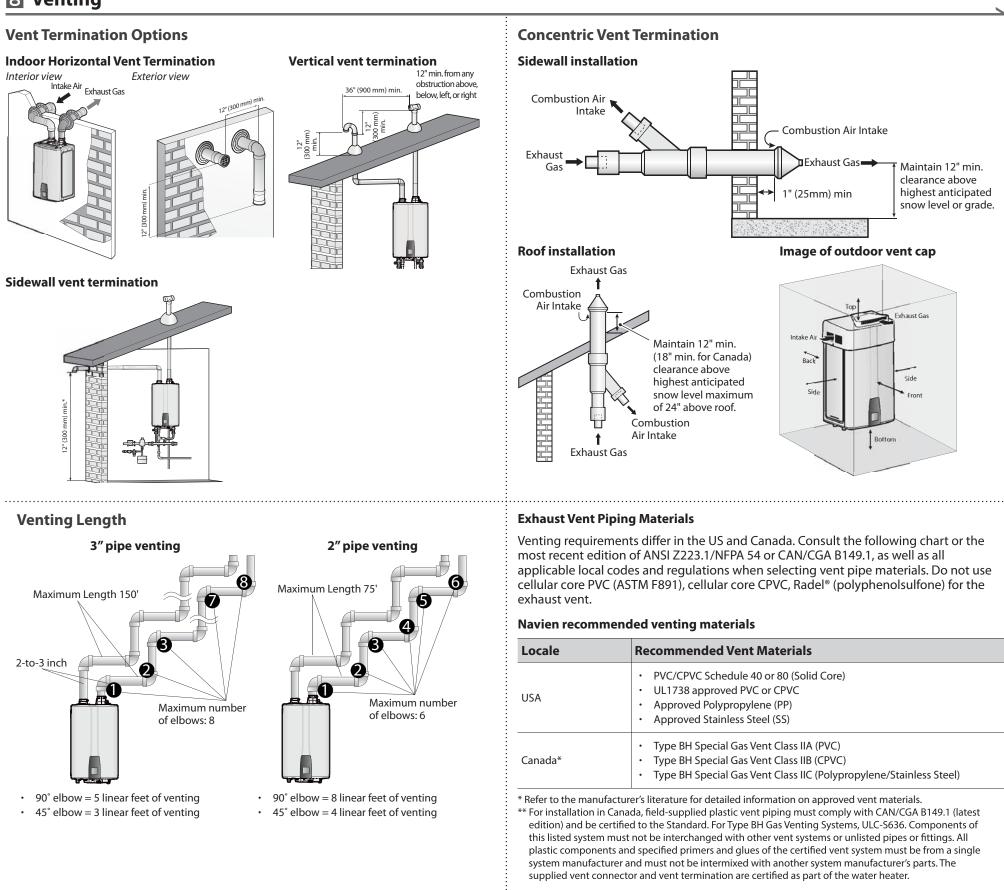


Note Do not submerge the end of the pipe in water.



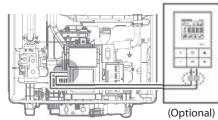


8 Venting



9 Electrical Connections

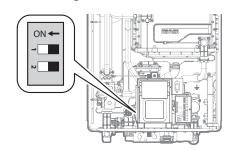
Remote Controller Connection



Power Connection



Confirmation of DIP Switch Settings





Min. 2 Amp current with proper grounding

CAUTION

Using abnormally high or low AC voltage may cause abnormal operation, thereby causing fire which reduces the life expectancy of this product.

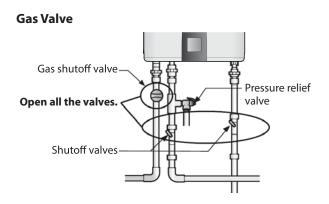
2-switch Panel:

Switch	Function	Setting		
2 Temperature Lo	Tomporatura Lock	Temperature can be set.	OFF	
	Temperature Lock	Temperature cannot be set.	ON	



STEP 3 After Installing

Opening All the Valves



Operating the Water Heater

Power ON Adjust the Water Temperature **View Basic Information Resetting the Water Heater** Æ

To turn the water heater on, press the Power button (①).

When the power is on for the first time, you must complete the start-up wizard. The temperature will appear on the front panel display after then when the power is on.

Press the Up button (\blacktriangle) or the Down button (\blacktriangledown) until the desired temperature appears on the display. You can adjust the temperature while the display is flashing. Once the display stops flashing, the temperature setting is stored.

To access to view the water heater's operating conditions, configure the DHW temperature, or review the error history, press the Menu button (M). If an error message appears, you can try resetting the water heater to resolve the problem. To reset the water heater, press the Back button (↔).



If resetting does not solve the problem, refer to the troubleshooting section of the User's Information Manual or contact the service center.

MNavien

Tel: 1-800-519-8794, Fax: 1-949-420-0430

20 Goodyear, Irvine, CA 92618

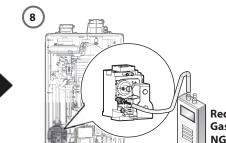
Navien, Inc.

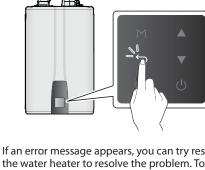
www.navieninc.com

4 (1)(5) 3 (2 OFF Open Closed Shut off the manual gas valve. Open a hot water faucet to turn Shut off the hot water faucet. Remove the 4 screws of the front Loosen a screw two or three turns and on the unit. cover assembly. connect a manometer to the pressure port. 7 8 6 If not, Recommended Gas supply **Gas Pressure Settings:** Open NG: 3.5"-10.5" WC

Adjust the inlet gas pressure with gas regulator.

B Measuring the Inlet Gas Pressure





Re-open the manual gas valve.

Open several fixtures that have high flow rates.

Check the inlet gas pressure reading on the manometer.

CAUTION

The Navien water heater cannot operate properly without sufficient inlet gas pressure and volume. The instructions on how to check the inlet gas pressure are stated above. THIS IS ONLY TO BE DONE BY A LICENSED PROFESSIONAL.

Installing the Front Cover



5 Ensure Maximum Water Flow

LP: 8.0"-13.0" WC

After using the water heater for the first 10 minutes, please stop using it and clean the cold water filter and recirculation water filter of any trapped debris.

6 Final Check

A trial run should be performed in accordance with the Installation checklist listed in the Installation Manual.

