

Tankless Water Heater and Boiler Free-Standing Rack

Overview

This document explains how to:

- Assemble the Tankless Water Heater and Boiler Free-Standing Rack (Standard and Low Profile versions) (Fig 1).
- Assemble the Add-On Extension Kit (if purchased) (Fig 1).
- Attach the tankless water heater or boiler (purchased separately) to the rack.

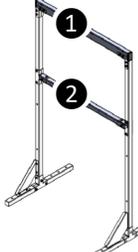
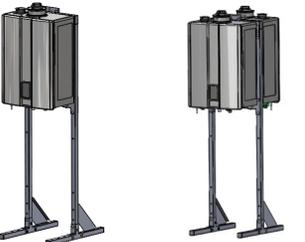
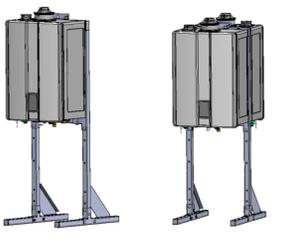
Standard Rack	Low Profile Rack	Add-On Extension Kit
		
<ul style="list-style-type: none"> • Part #: RTBRACKA • Rack Weight: 35.5 lb (16 kg) (Assembled) • Example Configurations¹: 	<ul style="list-style-type: none"> • Part #: RTBRACKS • Rack Weight: 33 lb (15 kg) (Assembled) • Example Configurations¹: 	 <ul style="list-style-type: none"> Extends the width of the rack to accommodate: <ul style="list-style-type: none"> • Side-by-side configurations • Configurations of two units or more
 <p>1-Unit 2-Units Back-to-Back</p>	 <p>1-Unit 2-Units Back-to-Back</p>	<ul style="list-style-type: none"> • Part #: RTBRACKExt • Weight: 11 lb (5 kg) (Weight of Top Bar Assembly and Middle Crossmember) • Example Configurations¹:  <p>2-Units Side-by-Side with Extension 4-Units with Extension</p>

Fig. 1. Rack Types, Part Numbers and Weights.

¹ Tankless Water Heater or Boiler is not supplied with the rack and is purchased separately.

Compatibility

The Tankless Water Heater and Boiler Free-Standing Rack and Add-On Extension Kit are compatible with the following internal (indoor) Rinnai products: SENSEI™ Tankless Water Heaters, I-Series Condensing Boilers, and M-Series Condensing Boilers (Fig 2).

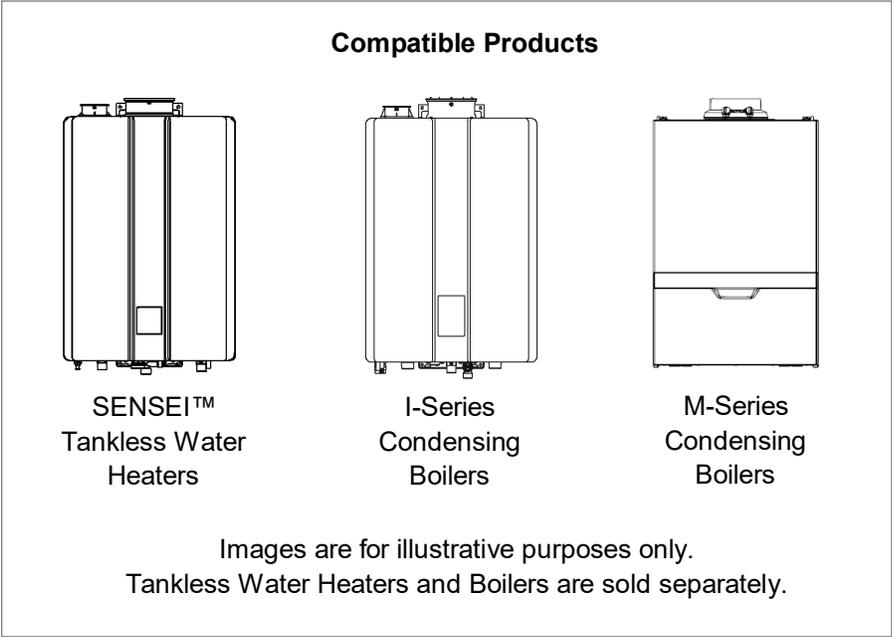


Fig. 2. Compatible Products

You Will Need

Supplied:

- Contents inside rack product box (contents are listed in the next section titled “Items Inside Product Box”).

Field-Supplied:

- Rinnai Tankless Water Heater or Boiler (purchased separately) with supplied mounting bracket and Installation and Operation Manual.
- Screwdriver, nut driver or wrench for use with screws and bolts listed in the next section titled “Items Inside Product Box.”
- *(Recommended)* Four (4) screws/expansion anchors for anchoring rack to floor. Reference local codes for minimum concrete thickness and use appropriate expansion anchors capable of supporting the rack system weight and applicable Rinnai tankless water heater or boiler weights.
 - For rack weights, see Fig 1 on the first page of this document.
 - For tankless water heater or boiler weights, refer to the Installation and Operation Manual supplied with the unit.

Items Inside Product Box

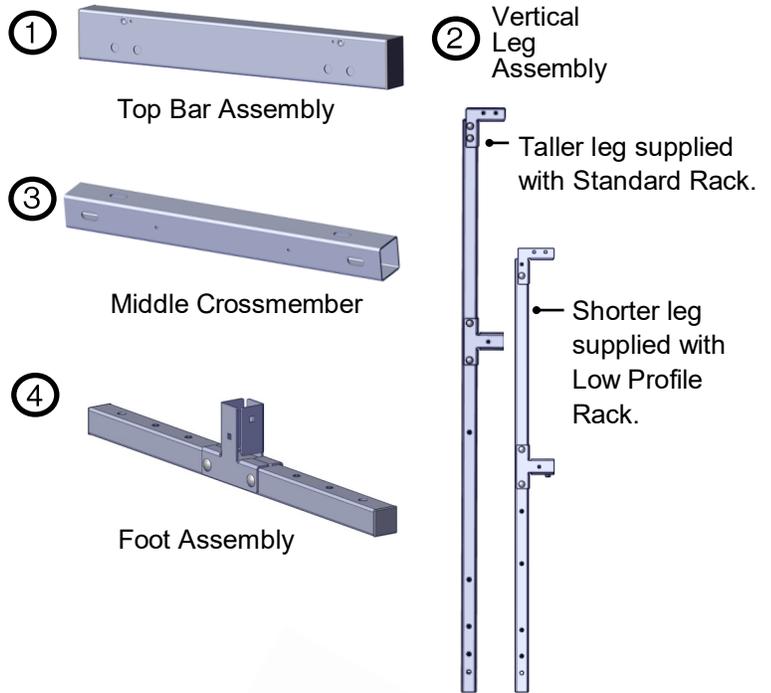
Before assembly, please make sure all parts are located inside the product box.

Standard Rack and Low Profile Rack Contents

The contents of the Standard Rack and Low Profile Rack are shown below.

The items and quantities are the same for both racks. The only difference is the length of the Vertical Leg Assembly (item #2 shown below) which is shorter for Low Profile Racks.

Item #	Item	Qty
1	Top Bar Assembly	1
2	Vertical Leg Assembly	2
3	Middle Crossmember	1
4	Foot Assembly	2
5	Leg Brace	2
6	Carriage Bolt (5/16 in.-18 x 2)	24
7	Flange Nut (5/16 in.-18)	12
8	HEX Bolt (#10-24 x 5/8 in.)	24
9	Thread Cutting Screw (#10-24 x 3/4 in.)	4
10	Lock Washer	24



Leg Brace

⑤



Carriage Bolt

⑥



Flange Nut

⑦



HEX Bolt

⑧



Thread Cutting Screw

⑨



Lock Washer

⑩

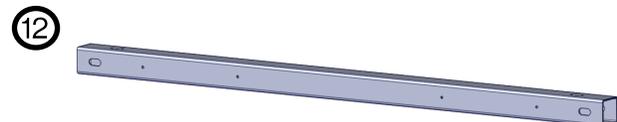
Add-On Extension Kit Contents (If Purchased)

The contents of the Add-On Extension Kit (if purchased) are shown below.

Item #	Item	Qty
11	Top Bar Assembly (Extended Length)	1
12	Middle Crossmember (Extended Length)	1
8	(Item shown above) HEX Bolt (#10-24 x 5/8 in.)	4
9	(Item shown above) Thread Cutting Screw (#10-24 x 3/4 in.)	8



Top Bar Assembly (Extended Length)



Middle Crossmember (Extended Length)

Assembly Instructions

Follow the instructions below to assemble the Standard Rack, Low Profile Rack, and Add-On Extension Kit (if purchased).

1. Insert the Vertical Leg Assembly into the Foot Assembly and secure with two (2) Carriage Bolts, two (2) Flange Nuts, and two (2) lock washers (Fig 3). Repeat this step on the other side.

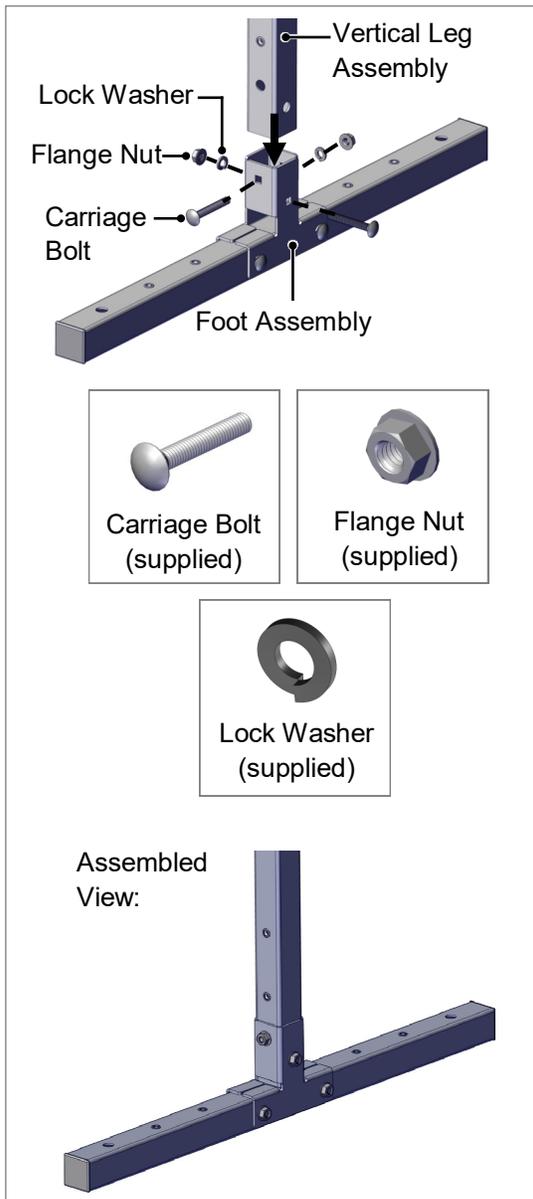


Fig 3. Insert Vertical Leg Assembly into Foot Assembly.

2. Attach one Leg Brace to the Vertical Leg Assembly/Foot Assembly with four (4) Hex Bolts (Fig 4). Repeat this step on the other side.

The Leg Brace can attach to the front or back of the assembly.

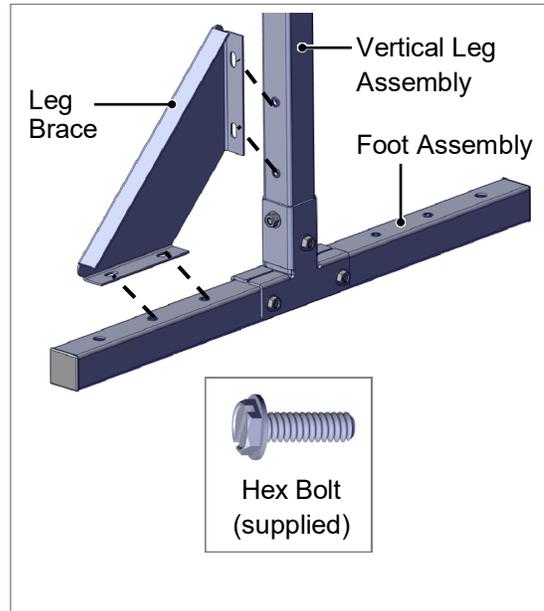


Fig 4. Attach Leg Brace.

- Attach the Middle Crossmember to the Vertical Leg Assemblies with four (4) Carriage Bolts, four (4) Flange Nuts, and four (4) lock washers (Fig 5).

IMPORTANT 

If using the optional Add-On Extension Kit, attach the extended length Middle Crossmember (supplied with the Extension Kit) instead of the standard length Middle Crossmember.



Middle Crossmember (Extended Length)
Supplied with Extension Kit.

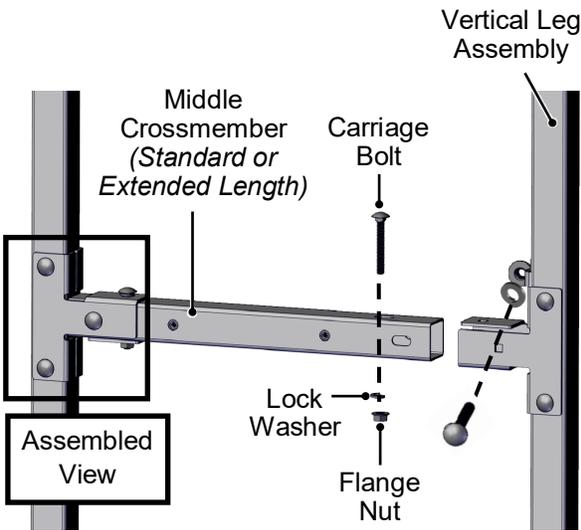


Fig 5. Attach Middle Crossmember to Vertical Leg Assemblies.

- Attach the Top Bar Assembly to the Vertical Leg Assemblies with four (4) Carriage Bolts, four (4) Flange Nuts, and four (4) lock washers (Fig 6).

IMPORTANT 

If using the optional Add-On Extension Kit, attach the extended length Top Bar Assembly (supplied with the Extension Kit) instead of the standard length Top Bar Assembly.



Top Bar Assembly (Extended Length)
Supplied with Extension Kit.

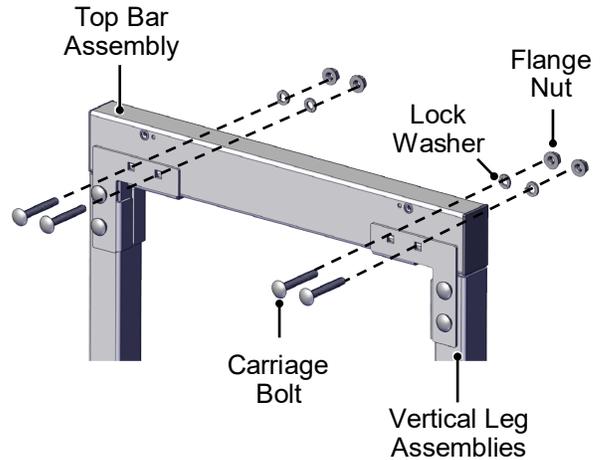


Fig 6. Attach Top Bar Assembly to Vertical Leg Assemblies.

5. (Recommended) Install four (4) screws and/or expansion anchors (field-supplied) through the base of the legs to prevent tipping potential (Fig 7).

CAUTION

Reference local codes regarding minimum concrete thickness and use appropriate expansion anchors that are capable of supporting the rack system weight and applicable Rinnai tankless water heater or boiler weights.

- For rack weights, see Fig 1 on the first page of this document.
- For tankless water heater or boiler weights, refer to the Installation and Operation Manual supplied with the unit.

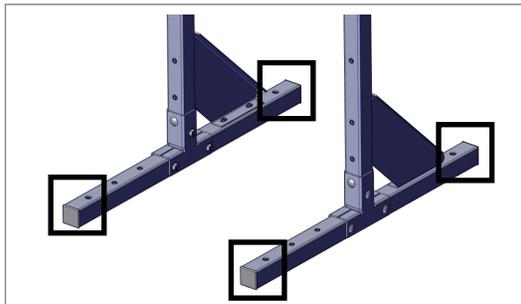


Fig 7. Install Screws/Anchors Through Rack Base.

6. Hang the Rinnai Tankless Water Heater or Boiler onto the rack by following the steps below:

6A: SENSEI™ Tankless Water Heaters and I-Series Boilers:

Using two (2) Hex Bolts (supplied), attach the hanging bracket (supplied with tankless water heater or boiler) to the *outer* through-holes on the left and right sides of the Top Bar Assembly (Fig 8).

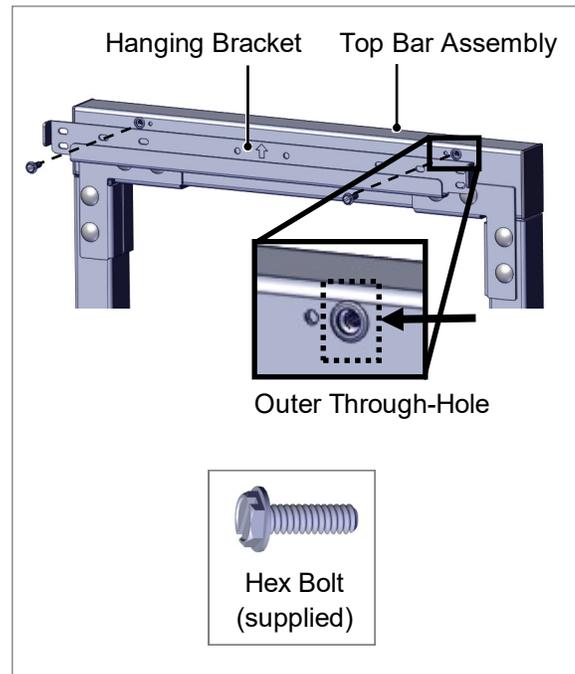


Fig 8. Attach the Hanging Bracket (SENSEI™ and I-Series Models).

6B: M-Series Boilers:

Using two (2) Thread Cutting Screws (supplied), attach the hanging bracket (supplied with boiler) to the *inner* through-holes on the left and right sides of the Top Bar Assembly (Fig 9).

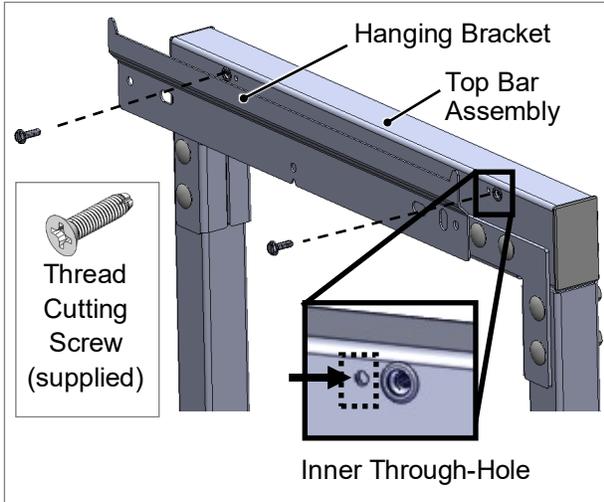


Fig 9. Attach the Hanging Bracket (M-Series Models)

7. Hang the tankless water heater or boiler onto the hanging bracket (Fig 10).
Reference the Tankless Water Heater or Boiler Installation and Operation Manual for detailed instructions.

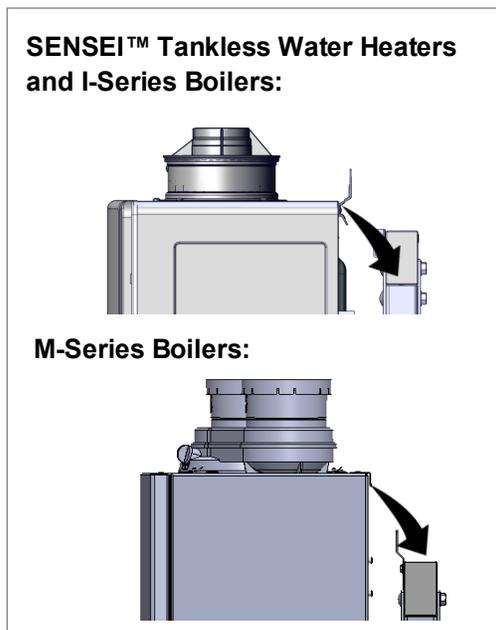


Fig 10. Hang Tankless Water Heater or Boiler onto Rack.

8. For SENSEI™ Tankless Water Heaters or I-Series Boilers, secure the bottom mounting basket to the Middle Crossmember using two (2) Hex Bolts (supplied) (Fig 11).

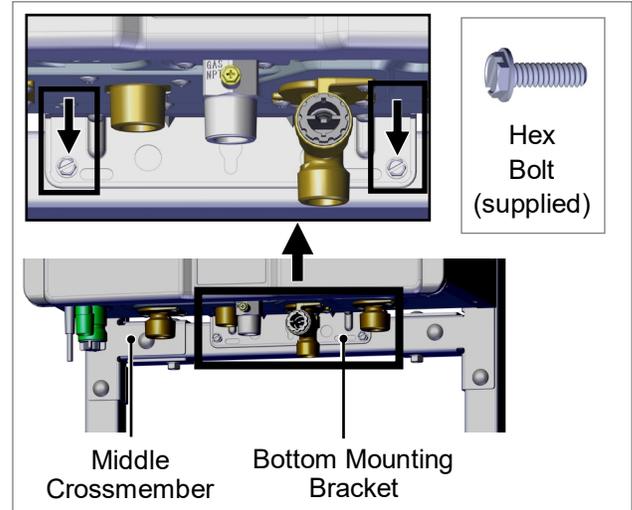


Fig 11. Secure Bottom Mounting Bracket.

NOTE

The Vertical Leg Assemblies contain rivet nuts (#10-24 thread) on both sides of the rack to allow for installation of field-supplied unistruts (Fig 12). Unistruts allow plumbing components or accessories to be mounted on the rack.

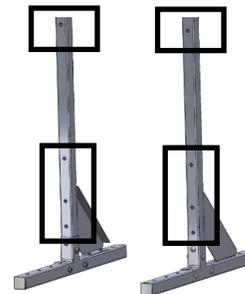


Fig 12. Rivet Nuts on Vertical Leg Assemblies.

Rack assembly instructions are complete.

To continue with installation of the tankless water heater or boiler (such as connecting the water, gas or power supply), refer to the Installation and Operation Manual supplied with the unit.

If You Need Service

Contact Rinnai Customer Care at: 1-800-621-9419.