



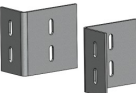
Universal Hydronic Air Handler Rack

For help with product installation, troubleshooting, servicing and more, visit
www.rinnai-lms.com

<p>Universal Hydronic Air Handler Rack Assembly</p> <p>Part #: AHRACK-1</p>	<p>This rack applies to the following Rinnai products:</p> <ul style="list-style-type: none"> • Hydronic Air Handlers: <ul style="list-style-type: none"> – Models <i>with</i> Internal Circulation Pump: AH083CP, AH084CP, AH125CP, AH166CP, AH206CP – Models <i>without</i> Internal Circulation Pump: AH083P, AH084P, AH125P, AH166P, AH206P • Tankless Water Heaters: <ul style="list-style-type: none"> – SENSEI™ SE+ Series (RU Condensing Models) – HE+ Series (RL Non-Condensing Models) – HE Series (V Non-Condensing Models) • Boilers: <ul style="list-style-type: none"> – I-Series (Condensing) Combi Boiler Models: i060C, i090C, i120C
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Items Inside Product Box

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

Item	Description	Part #	Qty	Image
1	Engine Mounting Screw (#12 x 1/2" Hex Head Screw)	109000318	5	
2	Rack Assembly Bolt (5/16"-18 x 5/8" Bolt with Washer)	109000296	16	
3	Stainless Steel Flanged Hex Head Screw (not shown in Fig 1)	N/A ¹	4	
4	Fixing Tab (not shown in Fig 1)	N/A ¹	2	
5	Top Frame	N/A ¹	1	See Fig 1
6	Left Rack Leg	N/A ¹	1	See Fig 1
7	U Channel	N/A ¹	1	See Fig 1
8	Right Rack Leg	N/A ¹	1	See Fig 1
9	Air Handler Rack Assembly Instructions (This document. Not shown in Fig 1)			

¹ Item is part of combined rack assembly (part # AHRACK-1).

Part numbers are correct at time of publication and subject to change without notice.

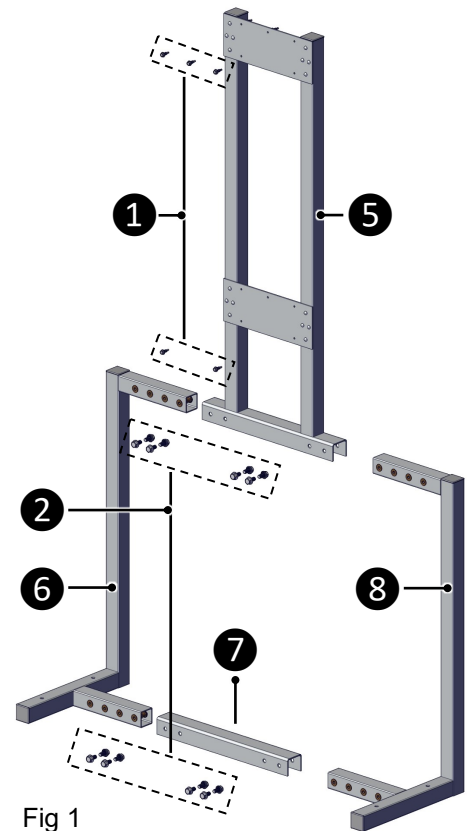


Fig 1

You Will Need

<input type="checkbox"/>	Contents inside rack product box (listed in previous section).
<input type="checkbox"/>	Hydronic Air Handler (purchased separately) with supplied "Hydronic Air Handler Installation and Operation Manual."
<input type="checkbox"/>	Rinnai Tankless Water Heater or Boiler (purchased separately).
<input type="checkbox"/>	Screwdriver, nut driver or wrench for use with screws and bolts listed in previous section (field-supplied).
<input type="checkbox"/>	(Recommended) Four screws/ expansion anchors for anchoring rack to floor (field-supplied). Reference local codes for minimum concrete thickness and use appropriate expansion anchors capable of supporting rack system weight.
<input type="checkbox"/>	(Recommended) Four screws for securing the rack frame to the air handler (field-supplied). The installer should determine which type of screw is best for installation.

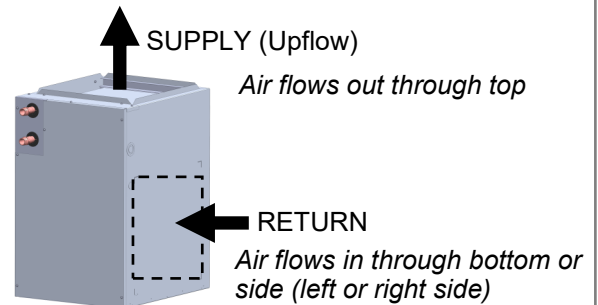
Instructions

➔ IMPORTANT

- Set aside the "Hydronic Air Handler Installation and Operation Manual" as you will need to reference clearances, ductwork requirements and other information specific to the air handler. A copy is supplied with the air handler, or view an online copy at rinnai.us.
- Images throughout this document illustrate the air handler vertical configuration.

1. Place the air handler in the desired location and configuration:
 - Vertical: Upflow with bottom or side (left or right side) return
 - Horizontal: Upflow with bottom return

Vertical (upflow with bottom or side return)



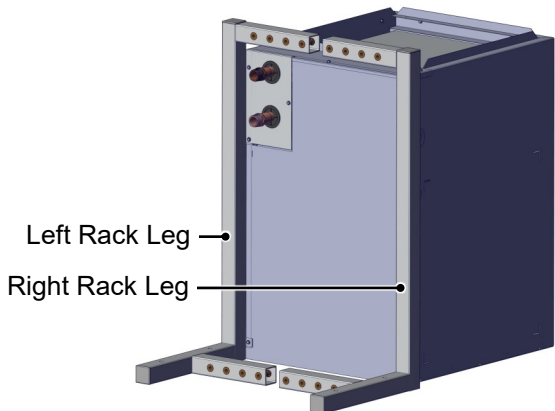
Horizontal (Upflow with bottom return)



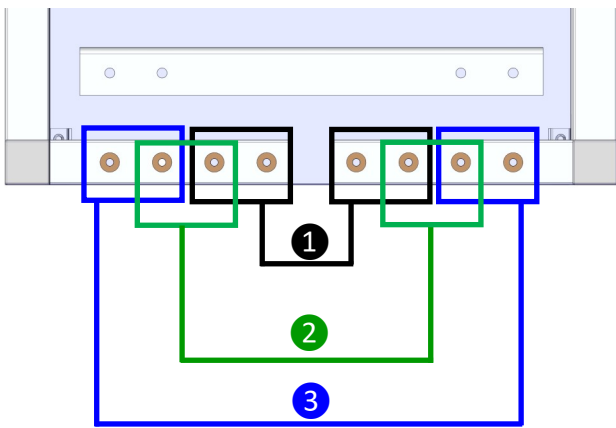
➔ IMPORTANT

Refer to the "Hydronic Air Handler Installation and Operation Manual" for approved and prohibited configurations.

2. Install all ductwork and HVAC equipment as needed. Ductwork omitted from images for clarity.
3. Place the left and right rack legs on the floor so that the inside of the leg spacing aligns with the outside of the air handler.

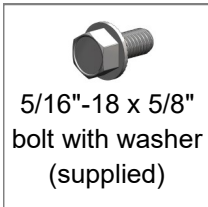
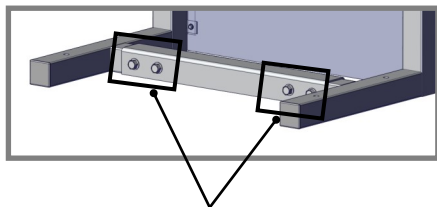
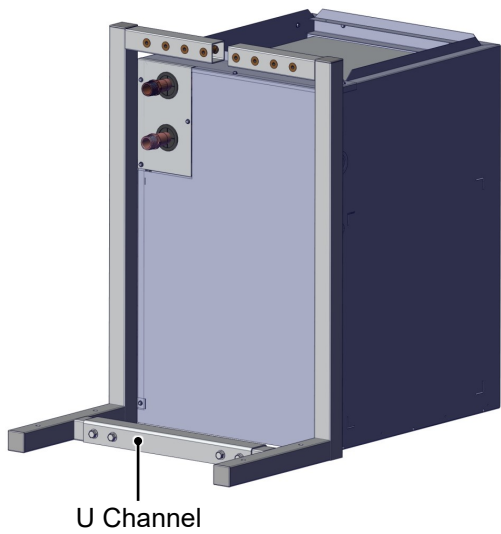


4. Space the rack legs according to the air handler models shown below.



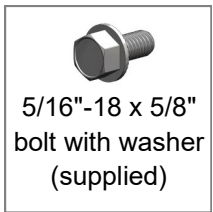
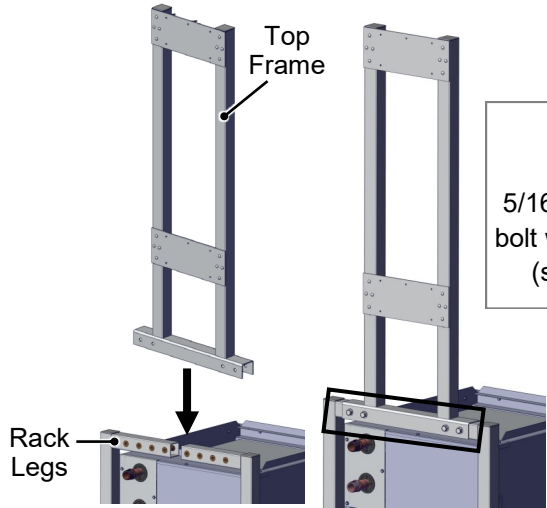
Item	Air Handler Model
1	AH206CP, AH206P
2	AH166CP, AH166P
3	AH083CP, AH083P AH084CP, AH084P AH125CP, AH125P

5. Install the bottom U Channel and affix with the supplied eight bolts (four bolts on front; four bolts on back).



Four bolts on front and back of U Channel (total of 8 bolts)

6. Install the top frame to the rack legs and affix with the supplied eight bolts (four bolts on front; four bolts on back).

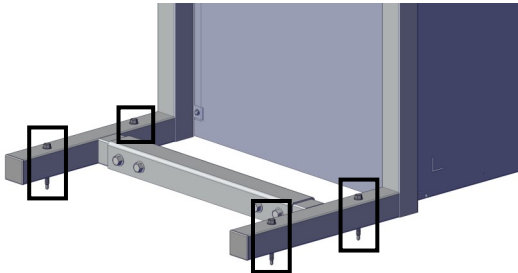


Four bolts on front and back (total of 8 bolts)

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

CAUTION

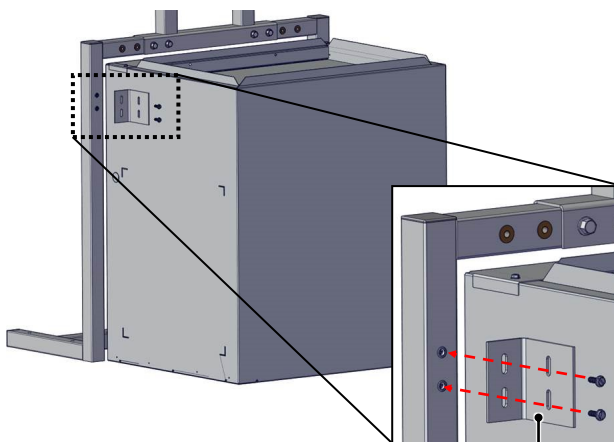
Reference local codes regarding minimum concrete thickness and use appropriate expansion anchors that are capable of supporting the rack system weight.




8. (Recommended) Secure the rack frame to the air handler:
 - a. Attach the fixing tab to each the left and right rack leg with the supplied four stainless steel flanged hex head screws (use two screws on left side; two screws on right).


Insert the screws into the rivet nuts, which are inserted into the racks legs.

Note: Attach the fixing tab to the upper part of the rack leg as shown in the dotted area below.





Stainless Steel Flanged Hex Head Screw (supplied)

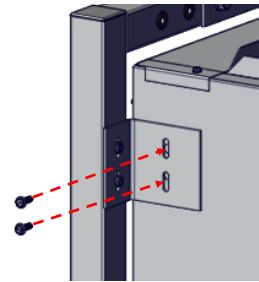


Fixing Tab

- b. Attach the four field-supplied screws (two screws on left side; two on right) through the other openings on the fixing tab and into the cabinetry of the air handler. Repeat this step on the other side.

CAUTION

Use caution to not damage the air handler cabinetry or any of the internal components.






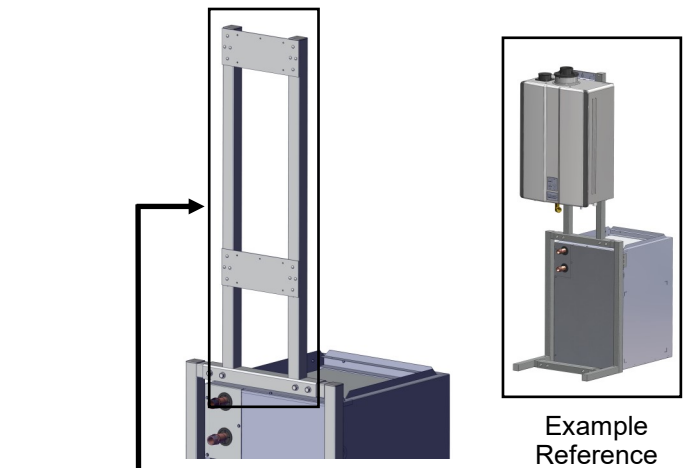
Field-Supplied Screw

The installer should determine which type of screw is best for installation.

9. Install the tankless water heater or boiler on the top frame with the provided five screws. See next page for additional steps and illustrations.



#12 x 1/2" Hex Head Screw (supplied)

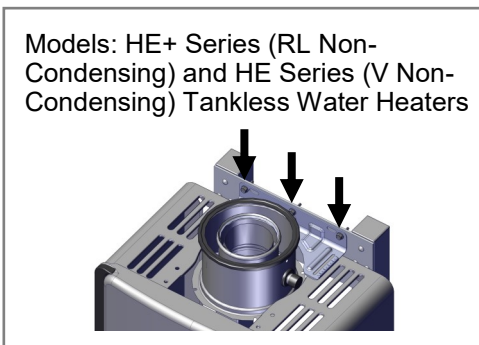
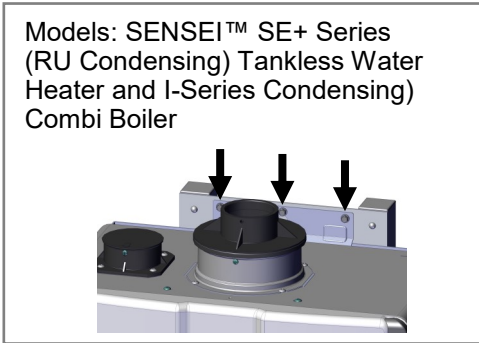


Install tankless water heater or boiler on this side of top frame.

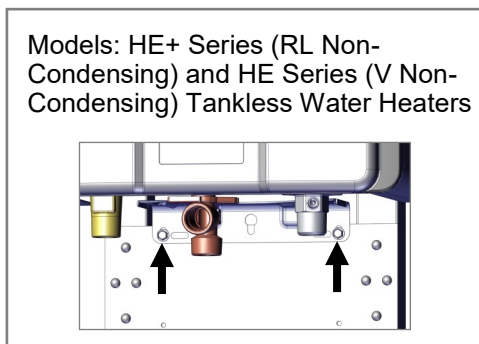
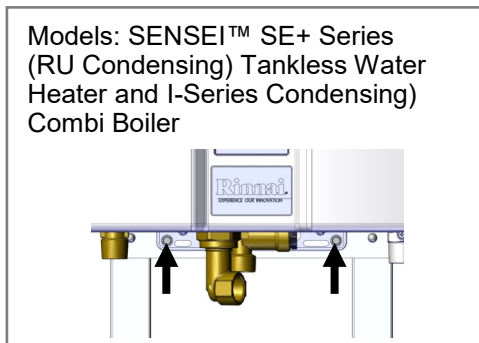


Example Reference

- a. Secure the tankless water heater or boiler top bracket to the top of the frame using three screws (supplied).



- b. Secure the tankless water heater or boiler mounting bracket to the bottom of the frame using two screws (supplied).



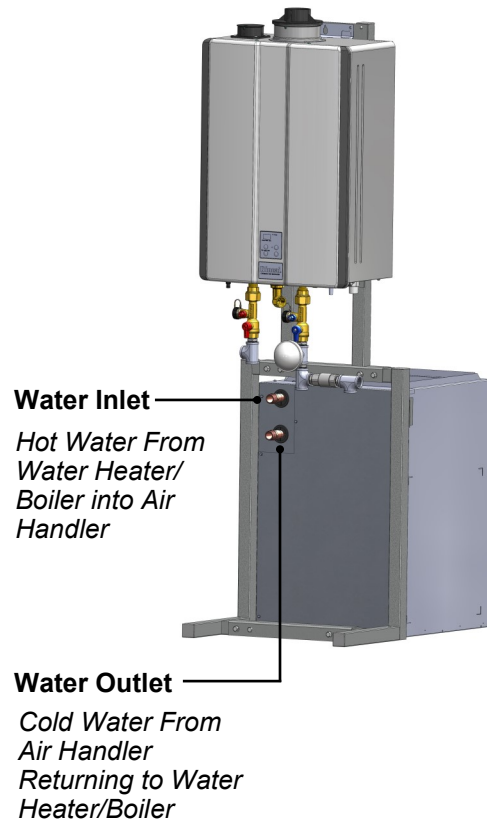
NOTE

The wall mounting bracket (if supplied with your tankless water heater or boiler) is not needed for air handler rack assembly.



Sample image

10. Connect water lines from the tankless water heater or boiler to the air handler.
- Plumb the water outlet/supply of the tankless water heater or boiler to the inlet (top connection) of the air handler.
 - Plumb the air handler water outlet (bottom connection) to the water inlet/return of the tankless water heater or boiler.



IMPORTANT

Refer to the “Hydronic Air Handler Installation and Operation Manual” for plumbing requirements and diagrams. Water connections to the air handler should follow all state and local plumbing codes.

If You Need Service

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