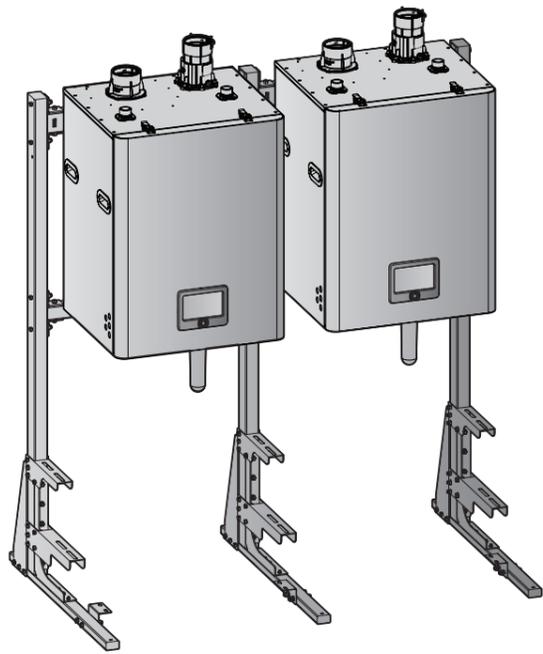


Ready-Link Commercial Rack System Installation Guide

Model _____
 NFB-301C
 NFB-399C



WARNING
 If the information in these instructions is not followed exactly, a fire or explosion may occur and potentially cause property damage, personal injury, or death.

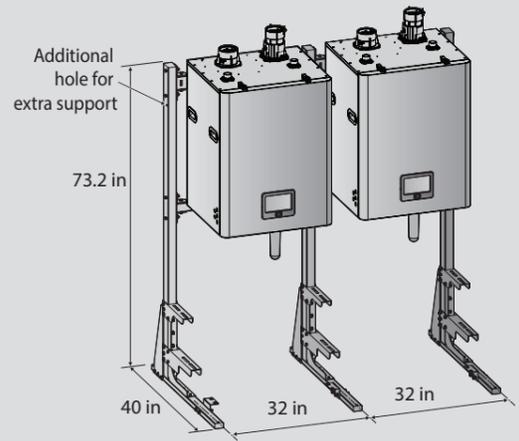
Keep this manual for future reference.

Installation Considerations

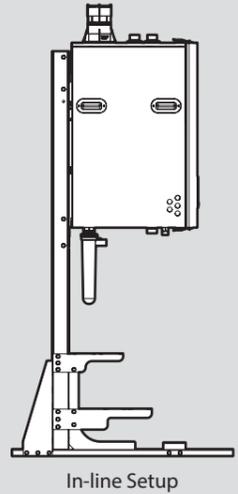
Refer to the following information to find an adequate installation location for the frame and prepare the appropriate tools to assemble the frame.

- Tools required**
- 5/32 in or 4 mm Allen wrench
 - Adjustable wrench
 - Level

Dimensions
 The following diagram shows the dimensions of the frame. Install the frame in an area that allows for service and maintenance access to utility connections, piping, filters, and traps.



The boiler unit can be mounted using the in-line setup.



Note Depending on the number of the boiler units, assemble the extension kits to the rack to add more installation space. Up to 9 extension kits (up to 10 units) can be assembled to the rack.

1 3
2 4

Included Items

When you open the box, you will find the following items. Check the box for each of the following items before assembling the Ready-Link Commercial Rack System. The quantity of each item differs depending on the number of boilers you want to install. If any of these items are missing or damaged, please contact our customer service center at 1-800-519-8794.

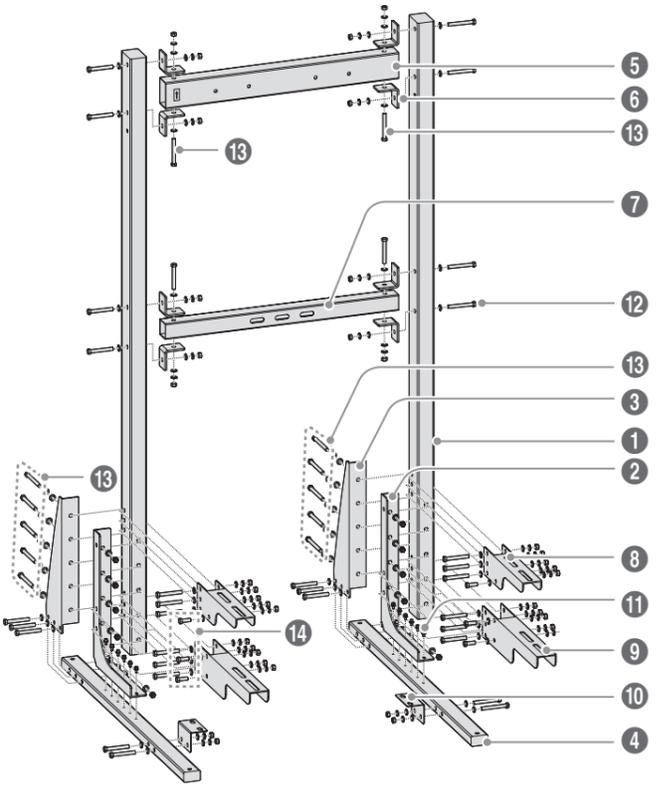
Installation Guide 1 EA	Post bar (2x3x72 in) * Single kit: 2 EA ** Extension kit: 1 EA	Upper fixed bar (2x3x28 in) * Single kit: 1 EA ** Extension kit: 1 EA	Middle fixed bar (2x2x28 in) * Single kit: 1 EA ** Extension kit: 1 EA	Base frame (40 in) * Single kit: 2 EA ** Extension kit: 1 EA	Fixed bracket * Single kit: 8 EA ** Extension kit: 8 EA	Lower fixed bracket (front) * Single kit: 2 EA ** Extension kit: 1 EA	Lower fixed bracket (back) * Single kit: 2 EA ** Extension kit: 1 EA	
Pipe support bracket (heating supply) * Single kit: 2 EA ** Extension kit: 1 EA	Pipe support bracket (heating return) * Single kit: 2 EA ** Extension kit: 1 EA	Pipe support bracket (gas) * Single kit: 2 EA ** Extension kit: 1 EA	Tapping screw 5x15 (washers set, stainless steel)† * Single kit: 18 EA ** Extension kit: 12 EA	M10 bolt (1 in, stainless steel) * Single kit: 6 EA ** Extension kit: 3 EA	M10 bolt (3 in, stainless steel) * Single kit: 35 EA ** Extension kit: 20 EA	M10 bolt (4 in, stainless steel) * Single kit: 12 EA ** Extension kit: 7 EA	M8 bolt (2.8 in, stainless steel) * Single kit: 4 EA ** Extension kit: 4 EA	5/32 in or 4 mm Allen wrench 1 EA

† Spare tapping screws are provided in the product package for your convenience.
 * A single frame or extension rack can be used to mount one boiler using the in-line setup.
 ** Up to 9 extension kits (up to 10 units) can be assembled to the rack.

Note Although the floor mounting hardware is not included with this kit, you must fix the Ready-Link Commercial Rack System securely to the floor to complete installation. Use appropriate anchor bolts (3/8 in) to fix the frame to the ground.

Parts Diagram

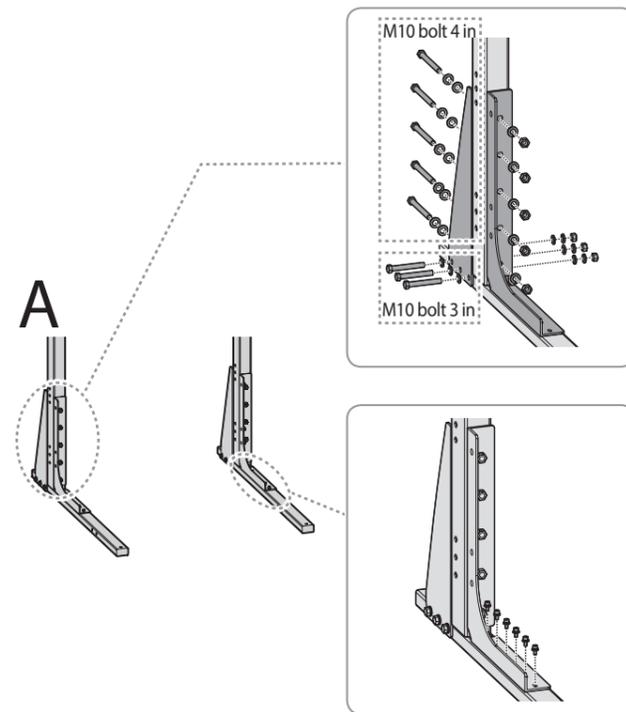
The following diagram allows you to correctly identify each part for easy assembly.



No.	Descriptions of parts
1	Post bar (2x3x72 in)
A	2 Lower fixed bracket (front)
	3 Lower fixed bracket (back)
B	4 Base frame (40 in)
	5 Upper fixed bar (2x3x28 in)
B/C	6 Fixed bracket
C	7 Middle fixed bar (2x2x28 in)
D	8 Pipe support bracket (heating supply)
	9 Pipe support bracket (heating return)
	10 Pipe support bracket (gas)
	11 Tapping screw (washer set, 5x15)
	12 M10 bolts (3 in)
	13 M10 bolts (4 in)
	14 M10 Bolts (1 in)

Installation Procedures

Assembling the foot bar



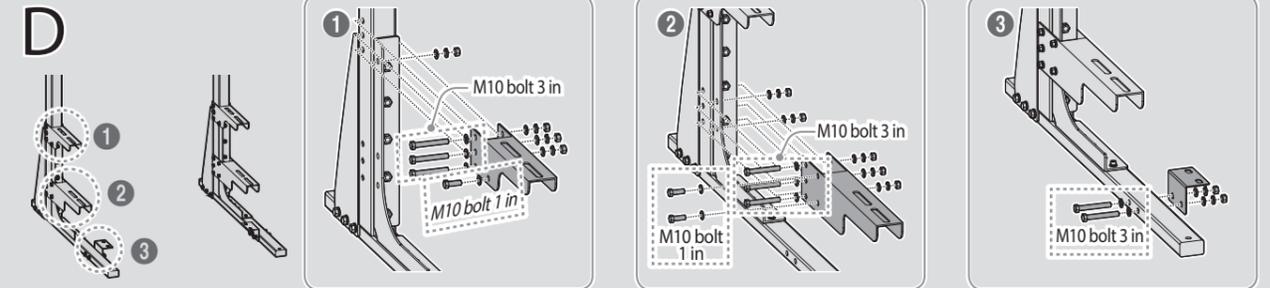
1. Align the bolt holes of the lower fixed brackets (front, back) to the bolt holes of the post bar.

Note Place the lower fixed bracket (back) to the side close to the M10 bolt holes of the post bar as shown in the illustration.

2. Affix the lower fixed brackets (front, back) with 5 M10 bolts (4 in).
3. Repeat steps 1 and 2 to make the second foot bar.
4. Affix the lower fixed bracket (front) to the base frame with 6 tapping screws.
5. Affix the lower fixed bracket (back) to the base frame with 3 M10 bolts (3 in).
6. Repeat steps 4 and 5 for the other foot bar.

Note The post bar may be damaged if excessive torque is applied when you tighten the M10 bolts. The maximum torque allowed when tightening the M10 bolts is 10 N-m, or 7 ft-lb.

Assembling the pipe support bracket



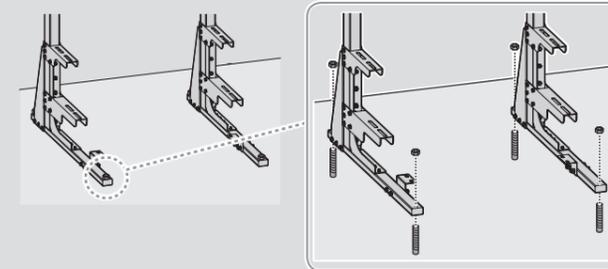
Note The M10 bolt (1 in) holes are only on the left side of the pipe support brackets (heating supply, heating return).

1. Place and affix the pipe support bracket (heating supply) to a post bar with 3 M10 bolts (3 in).
2. Affix the bracket to the lower fixed bracket (front) with 1 M10 bolt (1 in).

3. Place and affix the pipe support bracket (heating return) to a post bar with 3 M10 bolts (3 in).
4. Affix the bracket to the lower fixed bracket (front) with 2 M10 bolts (1 in).

5. Place and affix the pipe support bracket (gas) to a base frame with 2 M10 bolts (3 in).
- Repeat 1-3 for the other foot bar.

Fixing the frame to the location



1. Ensure that all screws and bolts are tightened securely.
2. Fix the frame to the ground with appropriate anchor bolts.

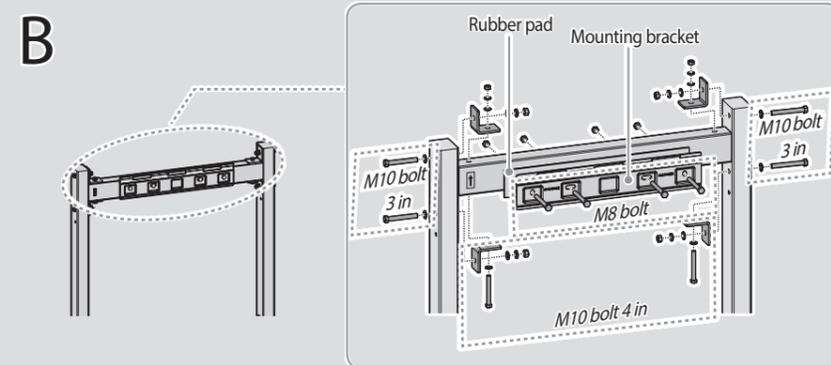
WARNING

- Ensure that the floor is flat and strong enough to support the boiler and frame when all preparations for operation are complete.
- Ensure that the frame is fixed securely as property damage, personal injury, or death may result if the frame falls.

Note Although the floor mounting hardware is not included with this kit, you must fix the Ready-Link Commercial Rack System securely to the floor to complete installation. Use appropriate anchor bolts (3/8 in) to fix the frame to the ground. Before fixing the frame to the ground using anchor bolts, ensure that the anchor bolts protrude above the surface of the ground by at least 2 in (50 mm).

5 7
6 8

Assembling the upper bar

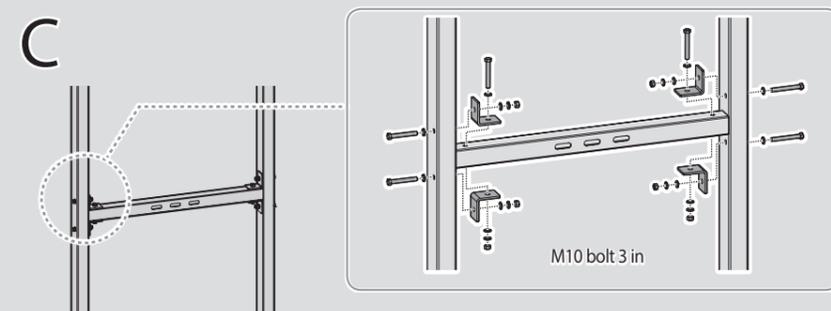


1. Place an upper fixed bar between the top of the 2 post bars and affix 4 fixed brackets with 4 M10 bolts (3 in) and 2 M10 bolts (4 in) to attach the upper fixed bar.
 - The M10 bolts (4 in) are for affixing the brackets and the upper fixed bar.
 - The M10 bolts (3 in) are for affixing the brackets and the post bars.

Note When attaching the upper fixed bar, position the bar with its arrow mark pointing upward.

2. Affix the mounting bracket and the rubber pad supplied with the boiler to the middle of the upper bar where the product will be attached with 4 M8 bolts (2.8 in).

Assembling the middle bar



- Place a middle fixed bar between the middle of the 2 post bars and 4 fixed brackets with 6 M10 bolts (3 in) to attach the middle bar.

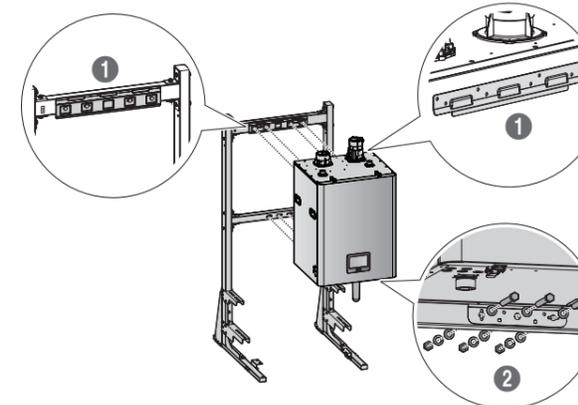
Note The post bar may be damaged if excessive torque is applied when you tighten the M10 bolts. The maximum torque allowed when tightening the M10 bolts is 10 N-m, or 7 ft-lb.

Attaching a boiler to the frame

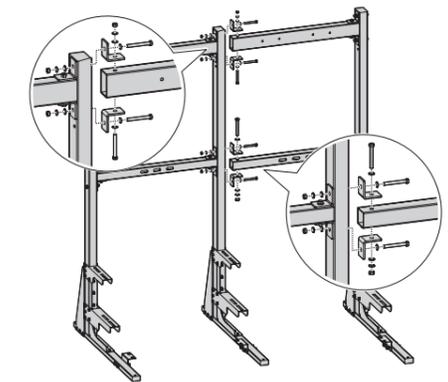
1. Hang the boiler on the bracket of the rack.

Note The boiler is heavy. Be careful when handling the boiler.

2. Secure the boiler to the frame with 3 M10 bolt set (3 in).



Attaching an extension kit



Refer to the instructions on pages 5 to 8 to connect an additional extension rack to the single frame with the fixed brackets and M10 bolts (3 in, 4 in).

CAUTION

Check the surfaces of the boiler and rack for any scratches or chipping paint. If any of the coating is removed, rust may develop and possibly affect the lifespan of the rack. Recoat any areas where the coating is removed or scratched.

Navien

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