Installation Instructions for Rack System
Main Rack Part # 7866P-017; Extension Rack Part # 7866P-018

WARNING

This installation shall be done by a qualified service agency in accordance with these instructions, the installation manual included with the appliance to be mounted on this rack, all applicable codes, and requirements of the authority having jurisdiction. Failure to follow these instructions could result in substantial property damage, severe personal injury, or death.

Installation Must Comply With:
2. National Electrical Code
3. In Canada, CSA C22.1 Canadian Electrical Code Part 1, and CGA No. B149 (latest version)
4. Local, state, provincial, and national codes, laws, regulations, and ordinances.

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WARNING

This rack system must be properly anchored and secured to the floor BEFORE mounting appliances on it. Failure to follow these instructions could result in substantial property damage, severe personal injury, or death.

Tools Required (Not Included):
- 7mm and 10mm Ratchet, Socket Driver, or Wrench
- Phillips Head Screwdriver
- Rubber Mallet
- Appropriate Drill with Assorted Bits
- M10 or 7/16" Lag or Anchor Bolts and Washers for Anchoring Rack into Wood or Concrete

Preparing for Installation:
Determine the best area to install the rack system. Ensure the location meets building code requirements, and that all safety and clearance requirements for the appliance(s) to be mounted on the rack are met.

Installing the Rack System:
1. Move the rack components to the installation location. Ensure you have all the components for the installation.

NOTE: DO NOT lose these components. Replacements ARE NOT included in this kit.

2. Set the base feet in the installation location. Verify finished installation clearances will meet the service clearance requirements of the appliance(s) to be mounted on the rack.

NOTE: DO NOT fully tighten the screws. Doing so will make it difficult to install the vertical posts and waste time.

3. Use a Phillips Head Screwdriver and eight (8) screws to install the four (4) angle supports to the two (2) base feet. See Figure 1.

NOTE: Do not attempt to overtighten any of the bolts as this may damage the threads and prevent the bolts from turning. Replacement bolts are not included in this kit.

CAUTION

Carefully consider installation when determining rack location. Please read the entire appliance installation manual before installing this rack. Failure to properly take factors such as appliance venting, piping, condensate removal, and wiring into account before installation could result in wasted time, money, and possible property damage and personal injury.

Do not attempt to overtighten any of the bolts as this may damage the threads and prevent the bolts from turning. Replacement bolts are not included in this kit.

User - These instructions are for use only by a qualified heating installer / service technician.

Failure To Adhere To The Guidelines On This Page Can Result In Substantial Property Damage, Severe Personal Injury, Or Death.
4. Use a Phillips Head Screwdriver and four (4) screws to install the two (2) vertical posts to the base feet. See Figure 1. Tighten all twelve (12) of the installed screws. Take care not to strip the screws.

5. Use a 17mm Ratchet or Socket Driver and wrench and the twelve (12) bolts with included washers and nuts to mount two (2) base supports to each base foot and vertical post assembly. See Figure 2.

NOTE: Ensure a washer is installed between the bolt and support and between the nut and support. It is considered best practice to install the bolts from the outside in, with the nuts on the interior of the rack.

6. Use a 17mm Ratchet or Socket Driver and wrench and the four (4) bolts with included washers and nuts to mount the beam marked “UPPER” to each base and post assembly. See Figure 4.

NOTE: If installing an Extension Rack, install the bolts on the exterior vertical post from inside the post out, and do not tighten down the bolts. Tie on the nuts by hand to keep the post stable. See Figure 3.

7. Observe the posts. Labels marked “ALL TANKLESS WATER HEATERS”, “80 – 140kBTU APPLIANCES”, and “175 – 199kBTU APPLIANCES” cover the upper lower beam mounting holes. Remove the label that corresponds to the appliance that will be mounted. Then use a 17mm Ratchet or Socket Driver and wrench and the four (4) bolts with included washers and nuts to mount the beam marked “LOWER” to each base and post assembly.

NOTE: Ensure the lower beam is mounted in the proper location for the appliance to be installed to the rack. Failure to do so will result in wasted time.

8. Use a rubber mallet to install the two (2) end caps on the vertical posts. See Figure 5.

9. If installing a single Main Rack, rack installation is complete. Ensure all nuts and bolts and screws are tightened.

Installing an Extension Rack:

1. Move the Extension Rack components to the installation location. Ensure you have all the components for the installation. NOTE: DO NOT lose these components. Replacements ARE NOT included in this kit.

2. Set the base foot in the installation location. Verify finished installation clearances will meet the service clearance requirements of the appliance(s) to be mounted on the rack.

3. Use a Phillips Head Screwdriver and four (4) screws to install the two (2) angle supports to the base foot. See Figure 1.

NOTE: DO NOT fully tighten the screws. Doing so will make it difficult to install the vertical post, and waste time.

4. Use a Phillips Head Screwdriver and two (2) screws to install the vertical post to the base foot. See Figure 1. Tighten all six (6) of the installed screws. Take care not to strip the screws.

5. Use a 17mm Ratchet or Socket Driver and wrench and the six (6) bolts with included washers and nuts to mount two (2) base supports to the base foot and vertical post assembly. See Figure 2.

NOTE: Ensure a washer is installed between the bolt and support and between the nut and support. It is considered best practice to install the bolts from the outside in, with the nuts on the interior of the rack.

6. Remove the two (2) nuts and washers attaching the upper beam to the installed rack. Then use a 17mm Ratchet or Socket Driver and wrench and the those two (2) nuts and washers and two (2) bolts with included washers and nuts from the Extension Rack kit to mount the beam marked “UPPER” to the Extension Rack and installed rack base and post assembly.

7. Remove the two (2) nuts and washers attaching the lower beam to the installed rack. Remove the label that corresponds to the appliance that will be mounted from the Extension Rack post assembly. Then use a 17mm Ratchet or Socket Driver and wrench and the two (2) removed nuts and washers and two (2) bolts with included washers and nuts from the Extension Rack kit to mount the beam marked “LOWER” to the Extension Rack and installed rack base and post assembly.

NOTE: Ensure the lower beam is mounted in the proper location for the appliance to be installed to the rack. Failure to do so will result in wasted time.

8. Use a rubber mallet to install the end cap on the vertical post. See Figure 5.

9. If installing a single Extension Rack, rack installation is complete. See Figure 6. Ensure all nuts and bolts and screws are tightened.

10. Repeat the steps included in this Installing an Extension Rack section for each additional Extension Rack.
General Notes on Securing the Rack to a Concrete Floor:

When locating the rack and preparing to install concrete anchors, IT IS MANDATORY to check for buried electrical cables, gas tubing, and water or radiant heating piping. DO NOT drill into or drive fasteners into concrete slab unless absolutely certain it is safe to do so. If in doubt, CONSULT A PROFESSIONAL to determine and accurately locate buried objects. Failure to follow this warning could result in property damage, serious personal injury, or death.

General Anchoring Instructions

1. Position the stand in the installation location.
2. Once properly positioned, use a pencil to mark the drill holes for the lag screws / expansion anchors. Then move away the stand.
3. Prepare to drill holes into the mounting surface (either 4" thick minimum Wood Structural Member, or 4" thick minimum Concrete Flooring). Consult lag screw or expansion anchor manufacturer for predrill diameters.
4. After taking appropriate precautions, drill the four anchor holes.
5. Reposition the stand with attached seismic anchors over the newly drilled anchor holes.
6. Install the washers and lag screws or expansion anchors (depending on the installation and code requirements).

Installing Appliance(s) on the Rack:

1. a. If mounting one (1) appliance to the rack, use a 10mm Ratchet or Socket Driver and wrench and two (2) M6 bolts and included washers and nuts to mount the top mounting bracket to the upper beam of the rack. See Figure 7.
2. b. If mounting two (2) appliances to the rack, use a 10mm Ratchet or Socket Driver and wrench and two (2) M6 (2) bolts and included washers and nuts to mount two (2) top mounting brackets to the upper beam of the rack. See Figure 8.
3. Hang the appliance(s) from the top mounting bracket(s). See Figure 7.
4. Repeat the previous steps for installing additional appliances on Extension Rack(s).

General Rules for Drilling in Concrete

Concrete drillers must comply with OSHA’s general rules. Operators must be adequately trained to use concrete drilling equipment, and the drilling equipment must be maintained in safe operating condition. Operators must wear personal protective equipment (PPE), including goggles, long pants, protective noise equipment, and steel-toed work boots. Operators should wear a respirator whenever exposed to hazardous materials. Adequate ventilation is required whenever drilling in concrete.

Utility Precautions

OSHA rules state that concrete drillers should make certain they are not drilling into electrical cables. They should use the services of the underground utility and cable locating companies prior to drilling. Concrete drillers should maintain a minimum distance of 10 feet from high voltage power cables.

If seismic anchoring is required, consult state and local codes for requirements and instructions. If in doubt as to whether seismic anchoring is necessary in your installation location, CONSULT A PROFESSIONAL. Failure to follow this warning could result in property damage, serious personal injury, or death.