

ATTENTION

The IBM Charging Rack must be attached to the floor to assure compliance with safety regulations to avoid a safety hazard potential caused by the tipping the rack. Because this safety hazard exists during installation, the space around the rack must be controlled to prevent injury during installation.

Introduction

This document describes the steps to install the IBM 7055 Charging Rack. This includes the site planning, rack positioning, rack space requirements, and bolting the racks to the floor. The fasteners to bolt the racks to the floor must be supplied by the rack installer.

Site Planning

Each charging rack can charge up to 9 tablets. The racks are able to be positioned side-by-side without side bumpers between the rack to make up a group or “bank” of racks. The side bumpers are used on the far left and far right sides of a bank of racks. For 120 VAC input, up to 3 racks can be plugged into a dedicated 15A branch circuit, and up to 4 racks can be plugged into a dedicated 20A branch circuit. The rack must be spaced away from obstacles in the front and rear to allow the bumpers to be installed and removed while the rack is attached to the floor. The racks must be positioned to enable removing the bolts to allow servicing or replacing the rack in the future. The rack must be positioned to allow easy access to the wall power outlet. Refer to the picture on Page 4 showing the dimensions for a 2 rack bank, as an example.

Each rack has its own 4.3 meter (14.1 foot) line cord for power. The line cords for all the racks in one bank should be routed inside the rack cabinet, then through an adjacent rack, and so on until all the line cords from the bank exit from the back of a single rack. The rack from which all the line cords exit should be located as close as practicable to the power outlet. To minimize damage to the line cords, the line cords should be routed away from pedestrian traffic and shopping carts, and all excess line cord length should be stored on the floor area inside the rack cabinets. Up to 8 line cords from the bank can exit the back of a single rack.

Four 3/8” or M10 medium-duty or heavy duty rated internally threaded fastener nuts must be installed into the floor to mount one rack. Use a fastener type that is appropriate for the floor material on site. Use the attached drawing as a general planning guide, and use the rack as a template to mark the location. The fasteners must be capable of accepting at least 1/2” (13 mm) of screw depth. The threaded fastener nut should be flush with the floor, or slightly recessed.

Four 3/8” or M10 medium-duty or heavy-duty rated bolts are needed to attach a rack to the floor. The bolt length should extend at least 1/2” (13 mm) into the floor. A flat washer and a lock washer should be placed under the bolt head to prevent loosening. The bolt heads should be a common type and size to enable removing the bolts to allow servicing or replacing the rack in the future.

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The charging rack must be installed by an insured, qualified, professional installer who is familiar with building construction methods, building materials, building codes, electrical codes, fire codes, and local laws governing public access areas.

It is imperative that the charging rack is attached securely and permanently to the floor. The charging rack must maintain secure and permanent attachment in the event the unit is knocked, bumped, or otherwise abused. If the charging rack is not securely attached to the floor, the unit may fall and get damaged, and may cause injury to others.

There is a wide variation of types of floor construction, age and condition. Attaching the charging rack to the floor involves making minor modifications to the building construction. Be sure to observe proper safety precautions to prevent injury. Unforeseen hazards can exist when drilling and cutting into floors, for example, natural gas and power lines.

Note: Compliance with local building codes, electrical codes and the governing laws should take precedence over this set of instructions.

Fasteners are not included with the rack, and must be supplied by the installer. The types of fasteners required are dependent on the type of floor construction. Choose fasteners that are rated either “Medium Duty” or “Heavy Duty.” To assure proper fastener selection and installation, follow the fastener manufacturer’s recommendations.

Installation

1. Cordon off the installation area to prevent injury to others.
2. Remove the racks from the pallet, remove the packing material, find and save the line cords and bumpers. Position racks in desired location to form a bank of racks. Install the left and right bumpers on the far left and right sides of the bank of racks. Check that the front and rear bumpers and screws can be installed and removed without having to move the racks. Check that the line cords will reach from the power outlet to the power inlet of the farthest rack.
3. Mark the location for the floor fastener nuts, using the racks as a template.
4. Install the fastener nuts. Install four 3/8” or M10 internally threaded medium-duty or heavy-duty fastener nuts must be installed into the floor for each rack. Use a fastener type that is appropriate for the floor material on site. The nut, bolt, lock washer, and flat washer must be sized to allow at 1/2” (13 mm) of thread engagement. The rack is between 5 mm and 6 mm (0.2” to 0.25”) thick where the bolts contact the rack.
5. Reposition the racks to the desired locations. Four 3/8” or M10 medium-duty or heavy-duty rated bolts are needed to attach a rack to the floor. A flat washer and a lock washer should be placed under the bolt head to prevent loosening. The lock washer should be located between the flat washer and the bolt

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head. Torque the bolts according to the fastener manufacturer's recommendations. If no torque recommendations are available, torque the bolts to 10 foot-lbs (13.5 Newton-meters).

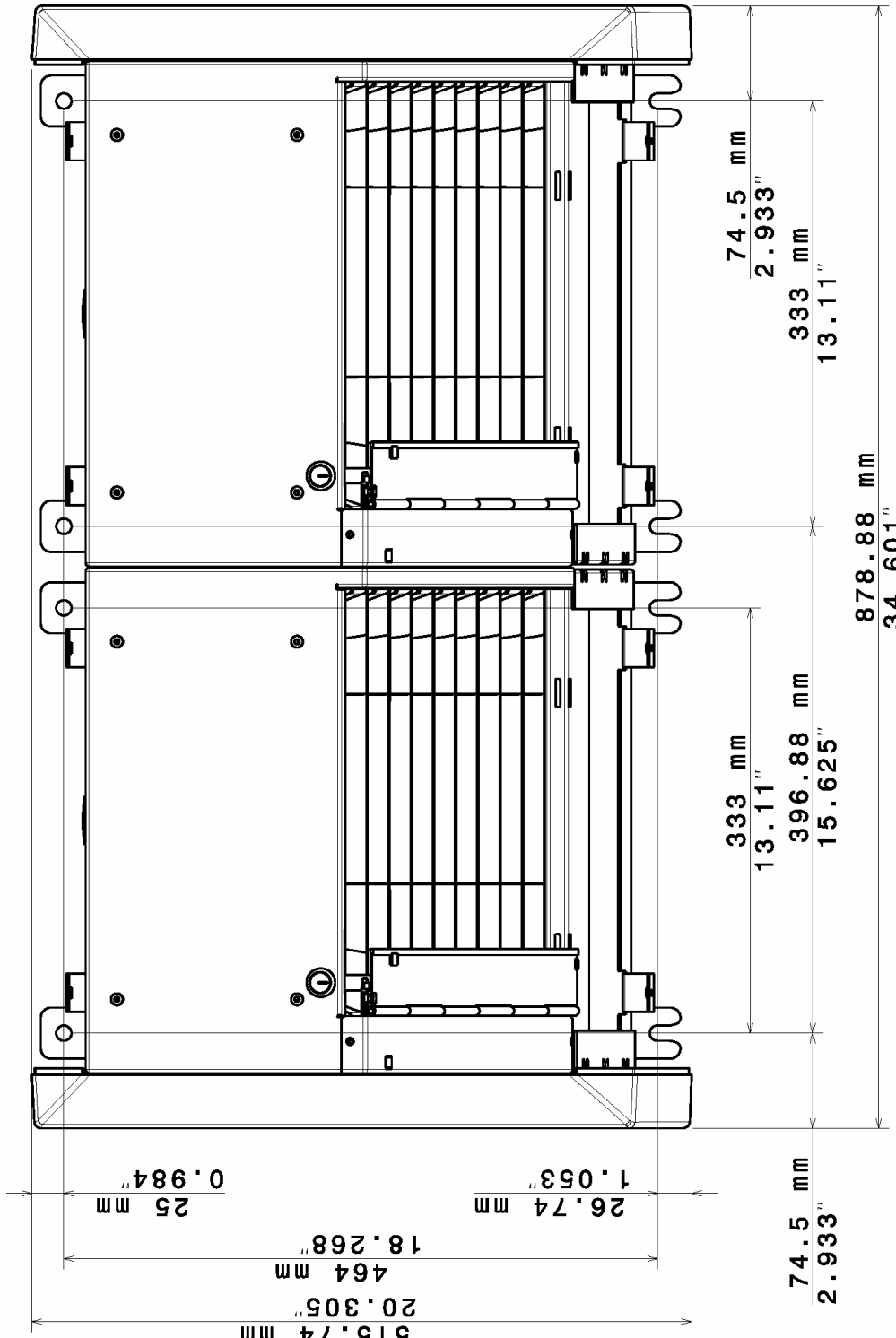
6. Route the line cords according to the site planning section above, and plug into the power outlet. When power is applied to the rack, a green light will be visible in the bottom of each of the 9 tablet charging positions or sleeves.

7. Install the remaining bumpers. The bumper positions may need slight adjustment to assure they match on all the mating edges.

8. Remove the keys and the tape holding the keys, and remove any remaining tape residue. Unlock the rack door and store the keys in a safe place. The racks are now ready for use.

BACK SIDE

RIGHT SIDE



LEFT SIDE