



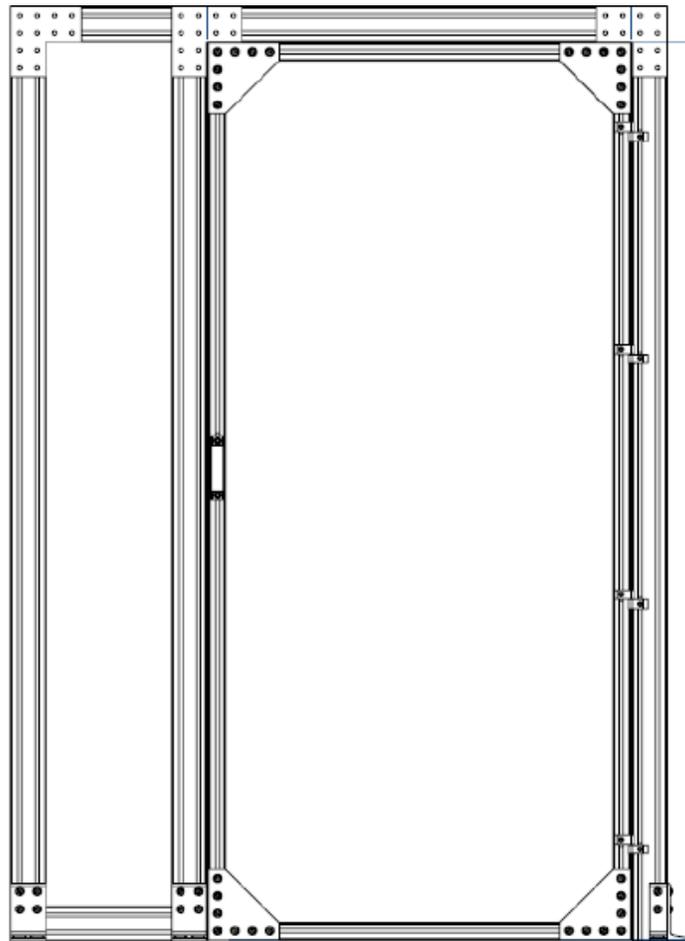
Mighty Mo Air Door, Hinged

MMADRH80X56RH
MMADRH80X56RH-B
MMADRH80X56LH
MMADRH80X56LH-B

Installation Manual

OR-71601764

Anodized Aluminum
Black



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INSTALLATION MANUAL

TABLE OF CONTENTS

1. Overview.....	2
2. Safety.....	3
3. Cautions and Warnings...	3
4. Components.....	3
5. Anchors and Base.....	4
6. Door Unpacking.....	4
7. Initial Door Raising	5
8. Securing Door.....	6

1. Overview

The Mighty Mo Air Hinged Door is a factory recommended door system for both cold and hot aisle containment because it combines cost-effectiveness and ease of installation. Over the long-term the Air Hinged Door will also reduce “total cost of ownership” by making it easier to fully separate cold supply and hot exhaust airflow. The sturdy aluminum frame is designed to be durable and long lasting. Other features include a locking door and magnetic stays and a no-floor threshold which eliminates a tripping hazard.

The Air Door kit includes all of the components and fasteners required to assemble and install the door. The door can be installed without having to ‘hang it’ onto the aisle end racks. Instead the door sits on the floor with two small attachments to the top of the racks.

As shown in Figure 1, the door is attached to the floor with four “L” brackets. The top is attached with two brackets to the top of the aisle end racks. The base can be attached into either the raised floor tiles or into a solid floor. The attachments at the top can be solid brackets that screw into the rack or a combination of a turnbuckle and guide wire that attaches into the racks various openings such as vent slots. The weight of the door rests on the floor. Once installed with the doorposts plumb, the doors will easily open and shut.

2. Safety and Quality Assurance

The following recommendations should be carefully observed as part of any door installation. In particular, the safety of the installers must be placed ahead of all other considerations. Some of the following warnings or cautions have been highlighted in the appropriate sections of the manual.

1. Do read and follow the Air Door Installation Manual.
2. DO NOT lift the door alone.
3. DO NOT drill into the raised floor without first ensuring that no electrical wires are in the area of the drilling
4. DO NOT screw into the aisle end rack without first ensuring that no electrical cables are in the area of the screw.
5. ALWAYS have at least one person securing the door remains upright while the installation is taking place.
6. ALWAYS wear personal protective equipment (PPE) when drilling, cutting, or attaching the door. PPE includes: Gloves, Safety eyeglasses, Hardhats.
7. NEVER leave the door unattended (unsecured) until the installation is completed.

3. Cautions and Warnings

This manual contains important information of the installation of your Air Hinged Door. We strongly recommend that you read and follow the instructions contained in this manual.

At several points in the manual items of special interest or significant impact are highlighted by one of the following notices.

Warning: Hazards or unsafe practices that could cause personal injury or death.

Caution: Hazards or unsafe practices that could cause product damage.

Note: Significant points of interest

4. Components

The major components for the door kit are shown under Step 2. This figure shows a fully assembled hinged door. The door comes in three basic components: The doorframe and one left or right hand door.

5. Floor Anchors and Top Brackets

Different floor types (solid, raised) may require different anchoring methods to ensure proper strength. Choose anchors that bolt to the raised floor or solid floor.

Tools/parts required:

Drill
3/8 drill bit
3/16 Allen wrench
Level
Standard Socket Set SAE
Adjustable Open End wrenches

Procedure:

Step 1:

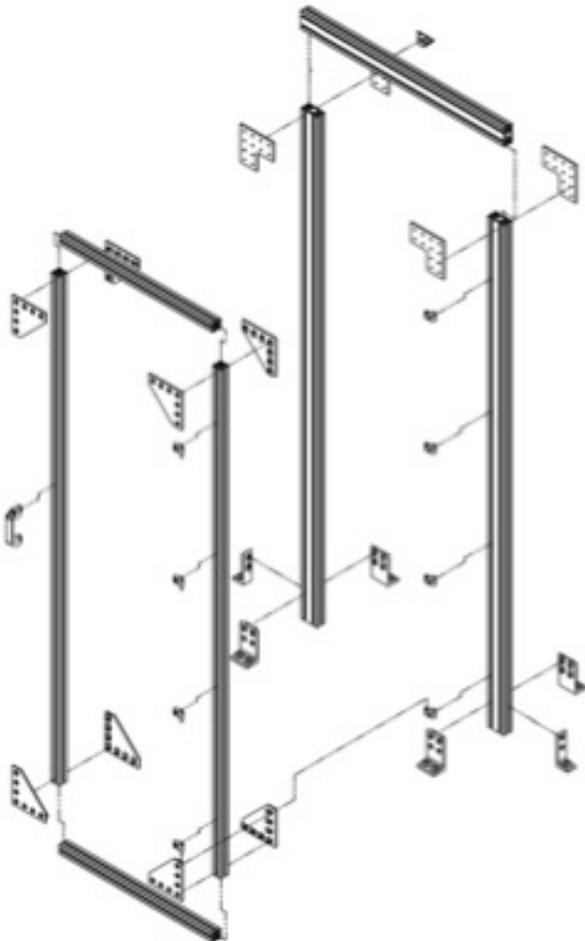
Unpack the Door

Separate the door from the packing material.

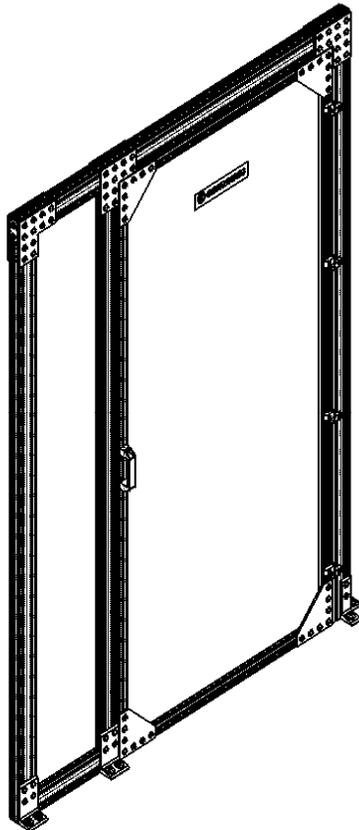
Caution:

Caution must be exercised when removing protective wrap and packing. The aluminum or clear acrylic panel can be scratched or cut making the door unsightly.

The Air Hinged Door comes fully assembled from the factory. Below is an exploded view of the door assembly for reference.



The door and frame should look like this:



Step 3:
Position the doorframe

Using two or more people... stand up the doorframe into what would be its final position. Ensure that the frame is placed so that it allows for safe entrance and exit from the contained aisle. Likewise ensure that the frame fully butts up against the aisle end racks so as to prevent air from leaking around the sides.

Warning:

The doorframe is heavy. Should it fall it could cause injury or even death. Always secure the door by at least one person while measuring the doors layout.

Step 4:
Plumb the doorframe

Once the door is in the desired place attach one of the floor anchors on the outside corner. Next use a level to determine that the doorpost is plumb. The attached floor anchor will ensure the frame does not move.



Step 5:
Drill the floor for anchor brackets

Mark the floor where the anchor brackets meet the floor. It's best to draw a small circle in the shape of the opening that matches the bolt. Move the frame so as to drill the marked holes.

Drill a 5/16-inch hole on marks that match the doorframe brackets



Step 6:**Attach the doorframe to the floor**

Using two or more people, stand the door back into the same place where the marks were made. Insert the bolts into the side anchor brackets and through the floor. Attach the nut to the bolt.

Step 7:**Attach the top or sides of the doorframe to YOUR selected anchor point.****Note:**

There are several ways to attach the top or sides of the doorframe to YOUR selected anchor point. Choose an option that best fits your data center needs.

There are supplied with each panel 90 degree brackets as well as flat brackets. These are designed to allow attachment to and of the Mighty Mo Door Systems and can be used to attach to the adjacent equipment. Self tapping screws are supplied for equipment attachment if desired. Doorframe placement requires anchoring the frame at or near the top third of the panel for stability.

