

INSTALLATION INSTRUCTIONS

Tools Required

Chalk-line, framing square, 2' & 4' levels, tape measure, ratchet & extension, 3/4" socket, drill, masonry bit, pipe-mounted clamp capable of opening to the exterior width of the Air Shower, wood block sized to fit interior width of unit, material lift (forklift or Genie-Lift), rubber mallet or block and hammer, white RTV sealant, cleaning supplies, common hand tools.

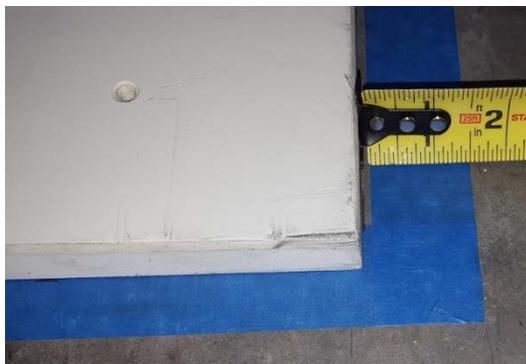
Step 1:

Sweep the area clean, then mark lines creating a box the exact size of the exterior dimensions of the roof section using either tape or a chalk line. Check the dimensions of the box to ensure they match the roof section and are square.



Step 2:

Establish the location of the sill plates by measuring in from the side and ends of the corresponding wall pocket. Draw a line showing the location for the sill plate. The side of the Air Shower wall needs to have at least 3/4" of clearance from any existing wall. Measure the bottom of the end of the wall (*Door side of unit*), and give yourself that much clearance for the end of the sill plate. For a wood plastic construction if the wall end has a hinge you need 1-3/8" of space, if the wall end doesn't have a hinge you need 1-1/8" of clearance. For an aluminum honeycomb construction the wall ends need 1-1/2" clearance.



Step 3:

Anchor the sill plate to the floor using screws or shields, whichever is appropriate for the application.



After the first sill plate is anchored to the floor, anchor the second measuring off of the first to ensure that they are set square. This is very important; if the sill plates are not square adjust them to make them square.

(Check the diagonal measurements of the sill plates to ensure that they are square. Pictured Right)

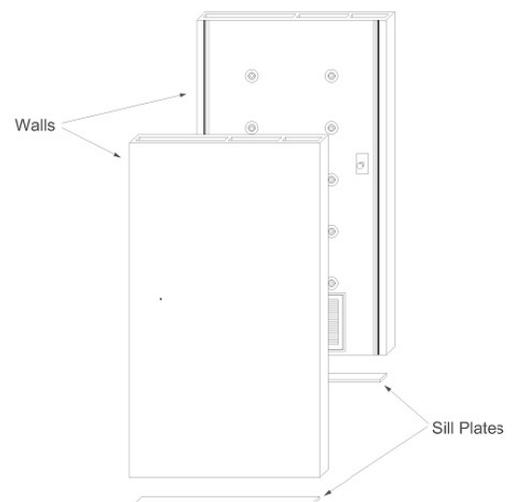


Step 4:

Set the wall sections in place on top of the floor sill plates

Secure the walls in place by using a pipe clamp. If space allows place a block the size of the door opening between the walls and place the pipe clamp from outside wall to outside wall to secure the walls.

(If you are in tight space such as a hallway you may choose to lift the roof section into place and set the walls under the roof section.)

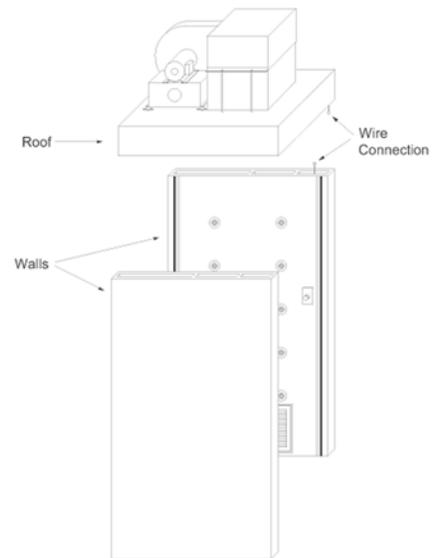


Step 5:

Remove the mechanical enclosure panels. Using a mechanical lifting device (or a forklift if space permits) raise the roof section above the walls, **but do not set the roof section on top of the walls yet.**

Step 6:

Find the low voltage wiring connection for the emergency stop/start switch. This can be located by finding the switch on the wall and following a line straight up to the top of the wall. There should be a connector protruding from the top of the wall and below the roof section. Plug the two connectors together



(Emergency stop switch low voltage connection pictured below)

Step 7:

Place a bead of sealant along the top of the wall sections to seal between the roof, walls and divider stud.

Step 8:

Lower the wall section in place. Align one corner of the roof section to the wall and insert the first 1/2" lag bolt. Screw the lag bolt in but tighten until snug. Find the opposite corner and align the wall and roof section together.

(Lag bolt pictured below)



You may have to use a rubber mallet or a wood block and hammer. **On air showers constructed of aluminum honeycomb panels never strike the wall or roof on the panel inserts, always strike on the extrusion.**

Once you have all four corners aligned tighten all the lags again about a quarter turn. Replace the mechanical enclosure panels.



Step 9:

Hang the doors on the pre-installed hinges and slip the pin into place. Attach the parallel arms of the door closer as shown below. Be sure that the magnetic switch located on the top of the door is in place and aligned with the reed switch in the top of the door way.



Step 10:

Hang the prewired power panel in a location adjacent to the air shower roof section so as not to interfere with access to the mechanical.

Step 11:

Connect the three phase power to the air shower power panel.

Step 12:

Make sure the emergency stop/start switch is in the out position and open and close the entry door; this should start a cycle. During this time check that the blower is rotating in the proper direction, if not reverse any two wires on the load side of the motor starter overload.

Step 13:

Clean off the air shower and seal the wall to roof and wall to floor joints with sealant. Install aluminum trim on the sides and top of the Air Shower on both sides that the Air Shower and partition meet.

Step 14:

Check the door alignment, if a door is sagging use the adjustment screw located in the top of the door to lower or raise the leading edge of the door.

Step 15:

Check the air shower for proper sequence. When the Air Shower entry door is opened and closed the shower will run for 10-15 seconds. (There is a potentiometer on the ELC if adjustments need to be made.) When the exit door is opened and closed, both doors will lock for a few seconds and then unlock.



Sequence of Operation

Entry Side Cycle

- 1:** Open the entry door.
- 2:** Step into the Air Shower and let the entry door close.
- 3:** The blower will turn on and run for 10-15 seconds and both doors will lock.
- 4:** The blower will stop and both doors will unlock.
- 5:** Exit the Air Shower and let the exit door close.

Exit Side Bypass

- 1:** Open the exit door.
- 2:** Step into the Air Shower and let the exit door close.
- 3:** Both doors will lock for a few seconds.
- 4:** Exit the Air Shower and let entry door close.

At any time during the sequence of operation, the emergency stop button can be pressed to stop the Air shower operation and personnel can exit the air shower from entry or exit side.