

# AIRJET SHOWER DRYING SYSTEM INSTALLATION GUIDE



# AIRJET SHOWER DRYING KIT CONTENTS

- Rough In Nozzles (Straight Or 90 Degree Or Both)
- White Protective Caps for Rough In Nozzles
- Nozzle Trim (Straight or Directional or Both)
- Flexible Tubing
- Flexible Tubing Clamps
- Flexible Tubing Elbows
- Manifold
- 2" Steel Straps
- Blower Motor/Motors
- Timer
- Relay
- Wrench for Directional Nozzle Trim

## MATERIALS AND TOOLS NEEDED

- Schedule 40 2" PVC and fittings
- PVC glue and primer
- Extra 2X4 wood pieces
- Hole saw
- Drill
- Nail plates
- Screws
- Pliers
- Heat gun (if needed)
- 4X4 electrical box
- Electrical wire (14/3)
- Clear waterproofing silicone



# BLOWER MOTOR

## PARTS PROVIDED:

- Motor and wall mount

## PARTS NEEDED:

- Screws
- Wood to mount to depending on surface
- Schedule 40 2" PVC and fittings

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- Blower can be placed up to 50 ft away from the shower. Possible locations are: mechanical room, neighboring closet, finished attic.
  - Results are best if placed within the home for conditioned air. Air intake is located at base of blower. Area needs to be ventilated to allow motor to draw air.
  - If placed near insulation refer to local HVAC guidelines.
  - Needs to be accessible- install access panel if needed.
  - Attach blower mount in desired location. Insert blower into notch in mount.
  - Slide schedule 40 PVC into opening at the base of motor.
  - For systems over 12 nozzles, 2 blower motors will be used. Each motor will have its own PVC run up to its own manifold. Both motors are put on the same timer.



# ROUGH IN NOZZLES

## PARTS PROVIDED:

- Straight Rough In Nozzles
- 90 Degree Rough In Nozzles (kit may include either or both)
- White protective caps

## PARTS NEEDED:

- Screws
- Additional 2X4 as needed



*Use white nozzle protector caps as a guide for depth. White cap needs to protrude or lay flush with finished surface. Rough in nozzle must not protrude beyond finish surface.*

Use nozzle placement plans provided by Airmada.

Straight rough in nozzles are installed in ceiling, 90 degree rough in nozzles are installed in walls. Only two screw holes are used per nozzle.

Screw white protective caps into each nozzle before beginning.

Nozzle depth placement- All rough in nozzles need to be recessed 3/8 inch into finished surface. You will need to know the thickness of finish surfaces before installing.

Nozzle positioning- Once waterproofing and finish thickness is known rough in nozzles are installed no more than 1-2 inches from finished wall for ceiling install. This same spacing is used for nozzles low on wall, install no more than 1-2" from finished floor. If there is a waterproofing bladder these can be installed slightly higher, above bladder line. Nozzles above bench seats need to be centered above the seat and installed no more than 1-2" from the finished seat. For nozzles installed high on the walls to dry the ceiling (steam shower application), install no more than 1-2" from the beginning of the ceiling.

Use pieces of 2x4 as needed to position nozzles. Nozzles should be balanced on each wall with equal spacing in between. See photos on next page.

**Do not over tighten screws when installing rough in nozzles. Tighten around 90% to allow the nozzle to slightly move in each direction. This will make installing finish nozzles easier.**





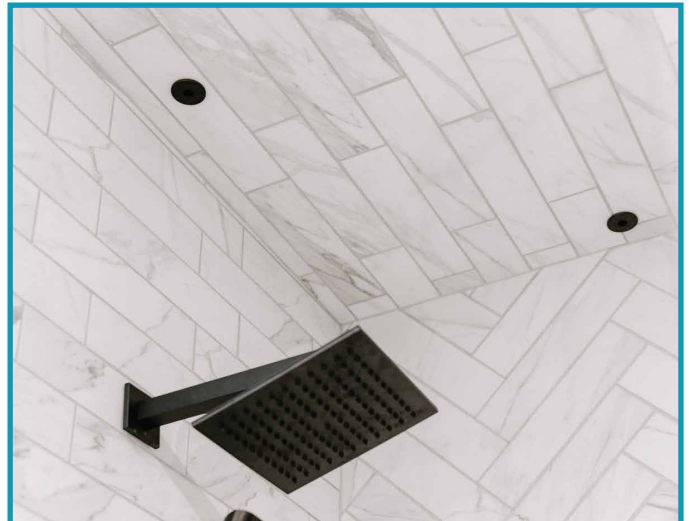
90-degree rough in nozzle installed low on wall to dry across floor.



Finished install of nozzles low on wall with nozzle trim.

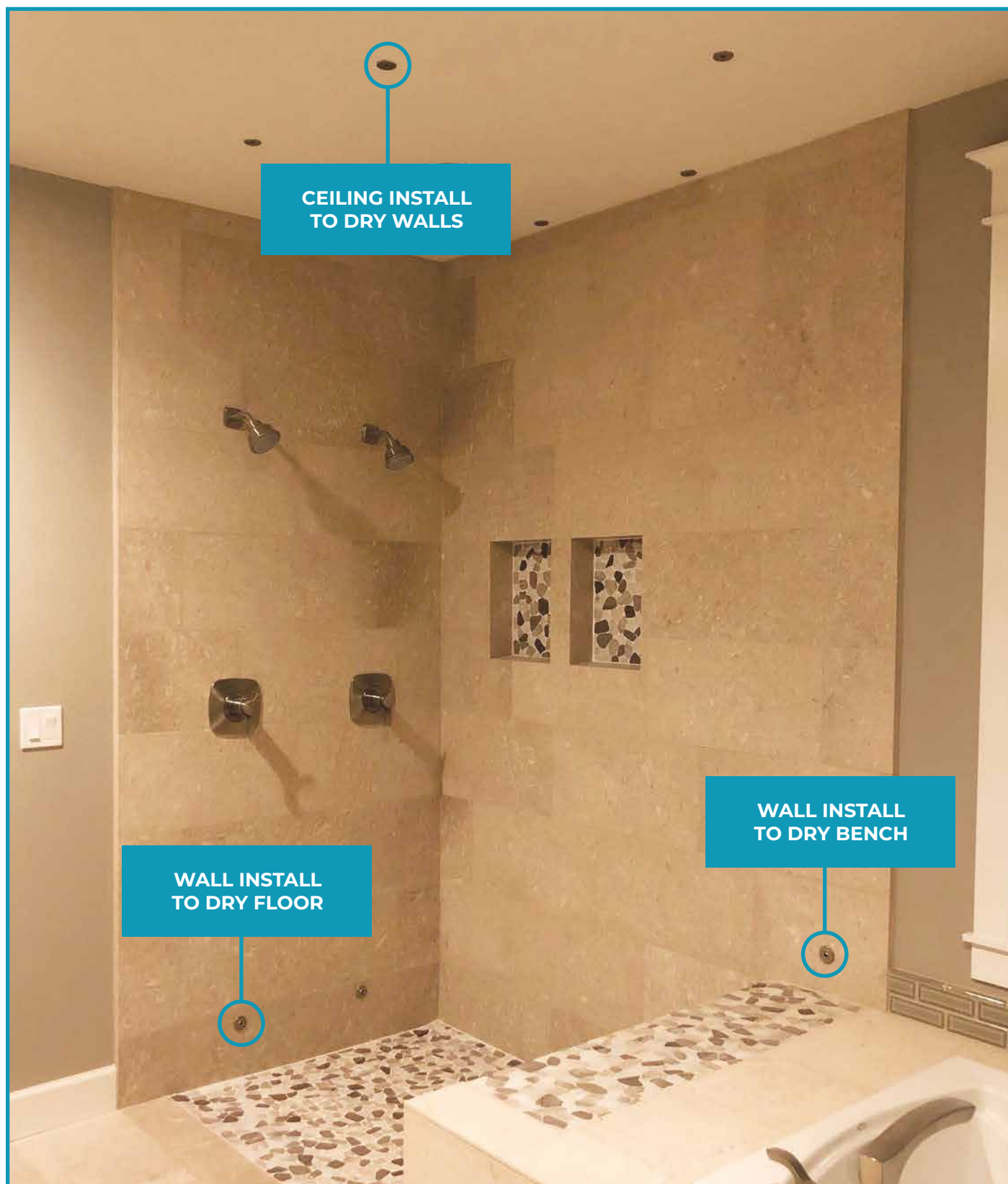


Straight rough in nozzle installed in ceiling to dry down walls.



Finished install with nozzle trim

# NOZZLE INSTALL - AFTER FINISH SURFACES



# MANIFOLD AND PVC

## PARTS PROVIDED:

- Manifold
- 2 inch steel straps
- Plug for manifold port (if needed)

## PARTS NEEDED:

- 2" SCH 40 PVC, and fittings
- PVC glue and primer
- Hole saw
- Nail plates to protect PVC



- Use PVC primer and glue to secure any plugs provided for manifold ports. If your kit came with a manifold plug it will be taped to the outside of the manifold. Glue the plug in one of the ports.
- Mount manifold in ceiling above the shower using 2 inch steel straps. If ceiling is not accessible, mount vertically on side of shower. Manifold should be centered so as to allow even airflow to each nozzle.
- Glue schedule 40 PVC to open end of manifold.
- Cut holes as needed in framing to run PVC through.
- If your kit came with two blower motors, each blower will connect to it's own PVC line and it's own manifold, providing air to half of the nozzles.



# FLEXIBLE TUBING

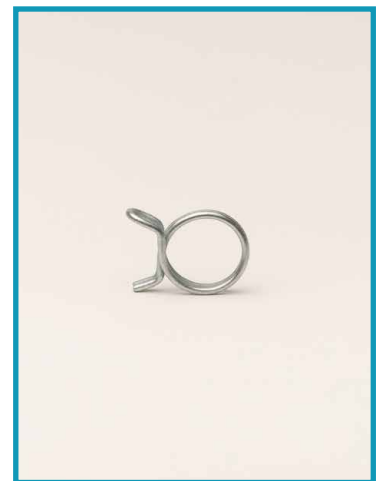
## PARTS PROVIDED:

- Flexible tubing
- Tubing clamps
- Elbows

## PARTS NEEDED:

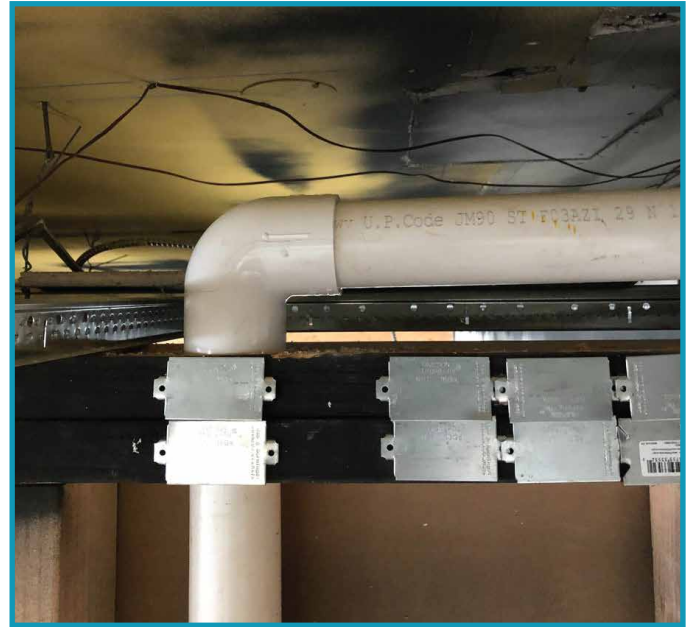
- Hole saw
- Plumbers tape as needed
- Nail plates to protect tubing
- Heat gun as needed

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- 3/4 inch flexible tubing connects each port on the manifold to each nozzle. Cut tubing length as needed.
  - Use heat gun as needed in cold weather or for stiff tubing to allow tubing to slide over barbed fittings easily.
  - Supplied clamps are used to secure tubing to nozzle. Open clamp with pliers and slide over flexible tubing. Connect tubing to manifold port, secure with clamp. The same process is used for connecting tubing to rough in nozzles.
  - Use hole saw to drill holes in framing for tubing run.
  - Use elbows provided for any bends or right angles to prevent kinks in tubing. Elbows will attach to tubing using the double wire clamps.
  - For any long runs of tubing fasten to nearby 2x4 to prevent sagging.
  - Nail plates should be used to protect tubing and PVC lines.





# FLEXIBLE TUBING INSTALL



# TILE DRILLING AROUND NOZZLES

## NOZZLE TRIM INSTALL

### PARTS PROVIDED:

- Nozzle trim
- Black wrench (if directional trim included in kit)

### PARTS NEEDED:

- Clear waterproofing silicone
- Drill bit - Size 1 3/8"

*Use white nozzle protector caps as a guide for depth. White cap needs to protrude or lay flush with finished surface. Rough in nozzle must not protrude beyond finish surface.*

- All holes drilled in finish surfaces around nozzles need to be 1 and 3/8 inches. The drilled hole should be accurate and centered on white protective cap so as to not leave gaps.
- Once holes are drilled, remove white plugs. If necessary use 1/2" plumbers pipe brush to clean debris from threads.
- On the back of the nozzle trim face, use a bead of silicone for waterproofing.
- Carefully screw in nozzle trim to each nozzle. Set flush with surface. Do not use any tools, tighten by hand only.
- Directional trim are adjusted with provided black wrench to aim air where needed.
- If finish surfaces are thicker than planned call your airmada rep to order extended nozzle trim.



# TIMER AND RELAY

## PARTS PROVIDED:

- Relay
- Timer

## PARTS NEEDED:

- 4x4 electrical box
- Electrical wire - 14/3



Warning: for the following steps, airmada recommends using a qualified electrician to complete relay and timer installation. Improper installation could result in serious physical injury and/or property damage. Any installation and maintenance for electrical components must be done with the power supply turned off or disconnected. Otherwise, there is danger of electric shock, fire and or part damage.

- Install a standard 120v receptacle next to the Airmada blower motor.
- Install the supplied relay in a 4"x 4" steel box and complete wiring.
- Using the recommended relay diagram, airmada should be compatible with all major timer switches.
- Install the supplied timer switch in the desired location in the bathroom.
- Connect the timer switch to the 4"x 4" steel box using electrical wire (not included, we recommend 14/3 wire).

