

How to build a T-gun (Plan #1)

This is the easiest snowgun to make, it consists of a T connector where the air and water meet and then are released out a hole or nozzle on the end. This gun is the least efficient, however can make snow at higher temperatures (29F, or -1.5C). This can be made with any size pipe, although it is recommended that unless you have more than 15CFM@40psi from your air compressor that you go with 1/4"ID brass pipe rated for 150psi. You will need a compressor with at least 4.5CFM@40psi for this to work.

These are all the parts needed for a simple snow gun, with 5CFM@40psi you can expect about 1/2" of snow per hour over about 10'X5', with lower amounts around that area.

Parts Required:

- (1) T fitting
- (3) Close nipples (1/4"MNPT X 1/4" MNPT)
- (1) 1/2" FNPT gate valve
- (1) 1/4" FNPT ball valve
- (1) 1/2"MNPT X 1/4"FNPT bushing
- (2) Garden hose adapter (1/2" FNPT – garden hose thread)
- (1) Air quick connect, 1/4" MNPT thread
- (1) Correct sized nozzle
- (1) Role of Teflon tape

Assemble according to the diagram on the next page.

To start up your T-gun follow these steps, complete each step before you move on to the next step:

1. Check the wet bulb temperature (see the guide at the end of this book)
2. Lay out your hoses where they will be during the run
3. Connect the water hose to the faucet.
4. Turn on the air compressor
5. Attach the end of the water hose to the snowgun
6. Attach the end of the air hose to the snowgun
7. Make sure the valves at the snowgun are all closed.
8. Connect the air hose to the air compressor
9. Turn on the water at the faucet
10. Turn on air at the gun (open valve completely)
11. Slowly turn the gate valve to let water come out the nozzle
12. When the water coming out the nozzle looks like fog it is good.

Dealing with high pressure water and air is dangerous, never point water towards people or pets, always use fittings rated for the pressures used. Wear eye and hearing protection at all times. Makesnow.net is not responsible for any damages or injury.

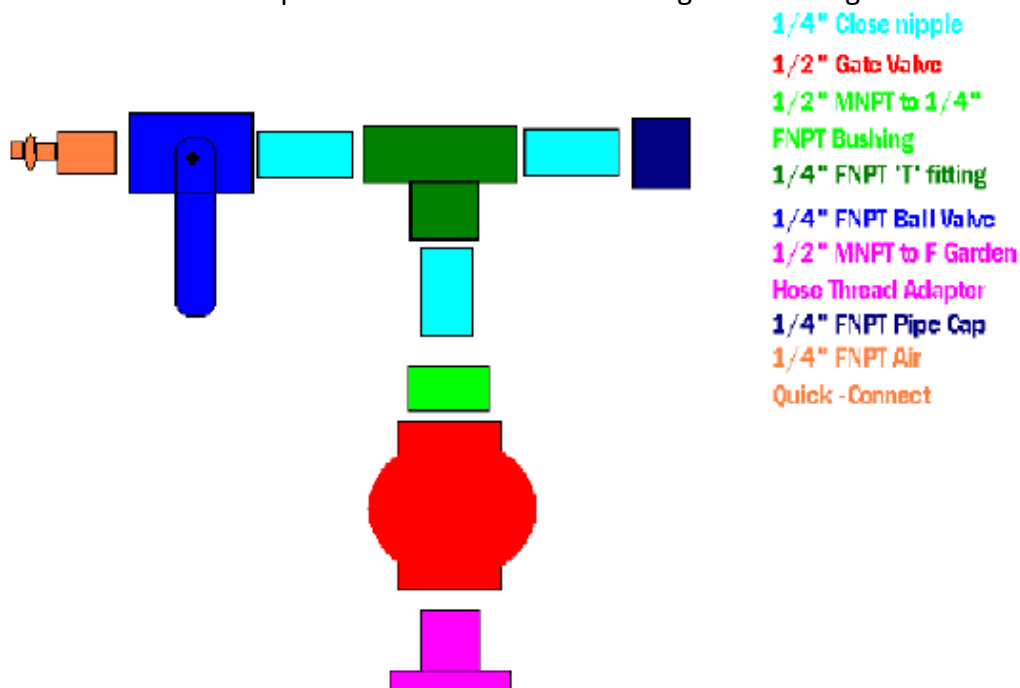
13. Point towards the ground to check that it is making snow, if there are drops of water visible, turn down the water.

- If the water and air are alternating coming out the nozzle then lower the air pressure.
- Be patient, this snowgun will not make very much snow, so it is best to leave it for about 10 minutes in order to see if it is making snow.
- If the ground is getting wet you are using too much water, it should sound like just air coming out, if the sound is not consistent then you probably have too much water.

To shut down the T-gun:

1. Close all valves at the gun.
2. Turn off and disconnect the water hose at the faucet
3. Open both valves at the gun (to allow the air to blow out the water hose)
4. Turn off air compressor
5. Disconnect gun from hoses
6. Disconnect air hose from compressor
7. Store hoses and gun in an area which will not allow them to freeze

Always use rubber hoses and keep the length of the hose between the air compressor and snowgun less than ten feet to prevent water from condensing and freezing in the hose.



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