



INSTALLATION TIPS

Check your product for damage

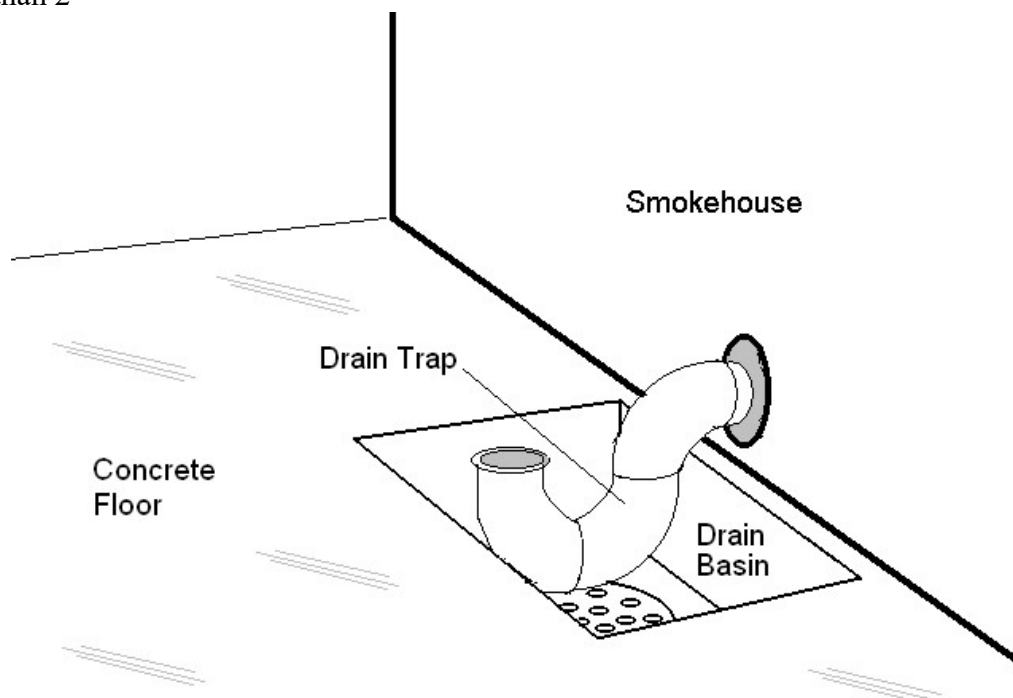
- Inspect your new smokehouse upon receipt for any damage. Make notation of any damage on your delivery receipt and report damage to the trucking company as well as to your Pro Smoker rep

Unloading and moving smoker into plant

- Make sure doorways are clear and unit will fit through either standing or laying down
- Do not lay down on control panel or drain. Lay on either flat back wall or flat side wall

Drain basin and trap

- CHECK WITH YOUR PLUMBER, INSPECTOR, THE STATE AND/OR LOCAL MUNICIPALITY TO FIND OUT WHAT IS REQUIRED! Some installations will require a grease trap. Most require an air gap.
- The top of the drain trap (discharge point), is just below the base of the drain line from the smokehouse
- The top of the discharge point should be just above the floor or drain basin preventing backflow into the smokehouse
- Drain connection from the smoker wall is 1" above the floor and has slight downward pitch. Drain tube from smokehouse is 2-3/8". Do not reduce drain line connections lower than 2"

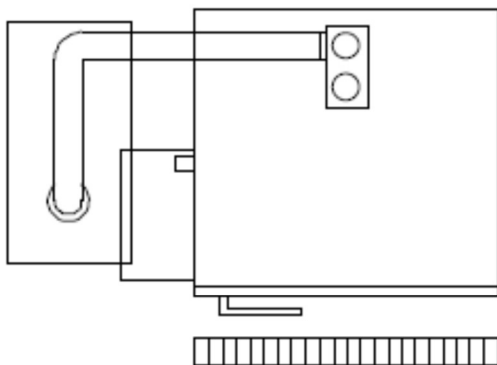




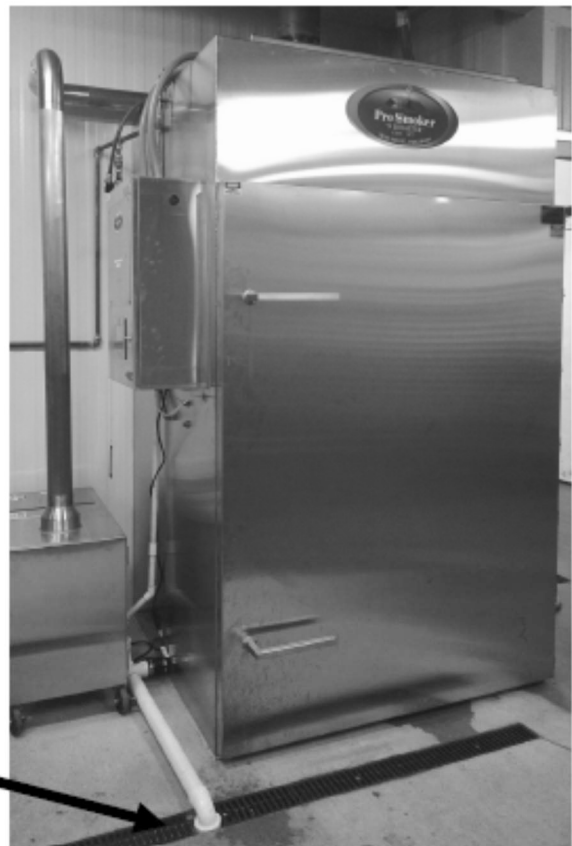
Drain continued:

If you are installing the smokehouse in a new building/room or if you are remodeling the concrete floor, many customers find that it is convenient to have a trench drain in front of the smokehouse. If this is the case, please contact Pro Smoker directly for assistance and guidance on measurements that will work best for your installation.

Top view of smokehouse with trench drain in front of it. This is a sample layout. Your smokehouse may vary from this layout example.



Trench Drain





Plumbing (cold water) connections to smokehouse solenoids (make sure to flush lines before connecting to smoker)

Humidity Solenoid: 3/8" connection (all models)

Wet Tank Solenoid: 3/8" connection (all models)

Shower Solenoid: 1/2" connection, models 320T-HVE, 500T-HVE and 500T

3/4" connection, models 700T and 1100T

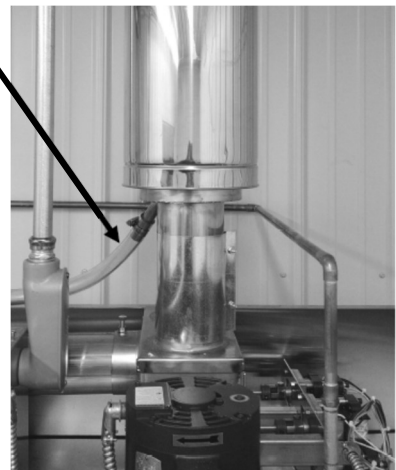
1/2" cold water supply line

Manifold (of some sort) with 3 lines leading to smokehouse solenoids (image shown has shutoff valves for each line)



"Whole House" style filter
with replaceable filter cartridge

Chimney Condensate Drain
Line. 3/4" clear hose and hose
clamp, run line to floor drain





Smokehouse solenoid locations and size of connections:



- Humidity Solenoid (top of oven)
- 3/8" connection (all models)
- Cold water connection



- Shower Solenoid (side of oven)
- 1/2" connection (models: 320T-HVE, 500T-HVE and 500T)
- 3/4" connection (models: 700T and 1100T)
- Cold water connection

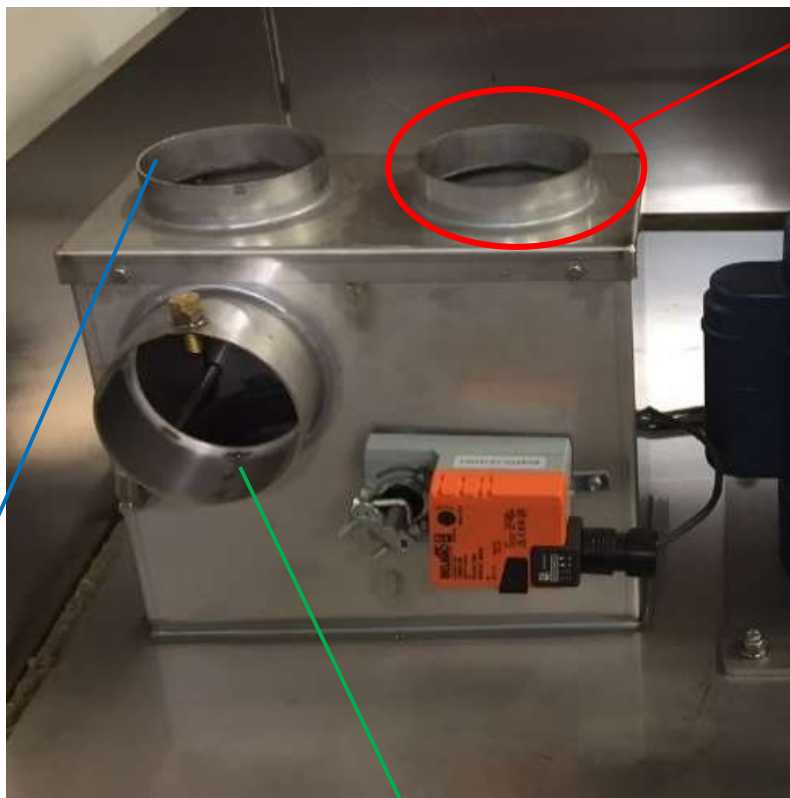
- Wet Tank Solenoid (side of oven)
- 3/8" connection (all models)
- Cold water connection



Exhaust connections

- Connect vent drip adaptor using the draw band (both provided with smoker) to exhaust port connection
4" draw band, models 320T-HVE, 500T-HVE and 500T
4"->6" vent drip adaptor models 320T-HVE, 500T-HVE and 500T
6" draw band, models 700T and 1100T
6"->8" vent drip adaptor models 700T and 1100T
- Class A (or minimum Class B) exhaust connection from the vent drip adaptor through ceiling

Exhaust port connection shown below



-Fresh Air Intake

-Smoke Generator Pipe Intake

- Connect smoke pipes from smoke generator to smokehouse smoke generator pipe intake (pipes provided by Pro Smoker)



Exhaust ductwork

- Ducting should be as short as possible, with at least 4-6 feet of pipe above your roof line (refer to local building codes)
- For best smokehouse performance, straight up and out is best exhaust venting with as few elbows as possible (see footprint drawings)
- If needed, use 45-degree elbows whenever possible
- Simple rain caps (see images below) should be installed
- Care should be taken by the owner to ensure that installation is fire safe

RAIN CAP (OUTSIDE EXHAUST PIPE)

OPTIMAL – GOOD AIRFLOW

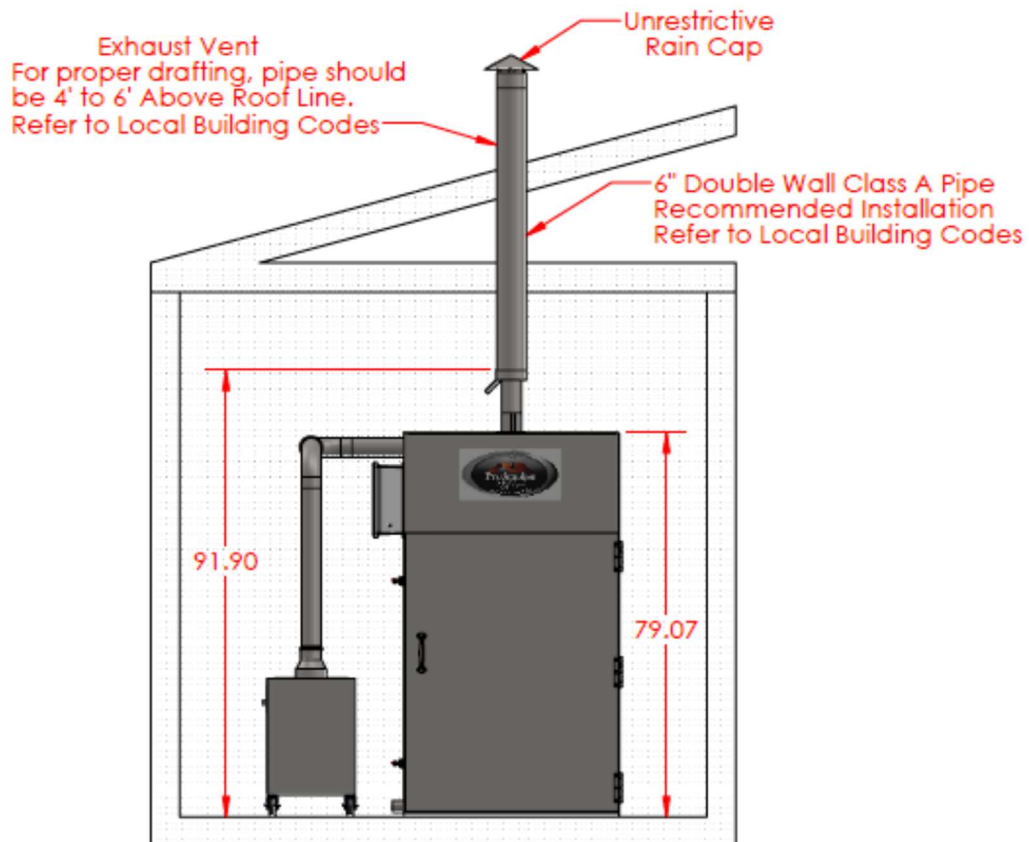
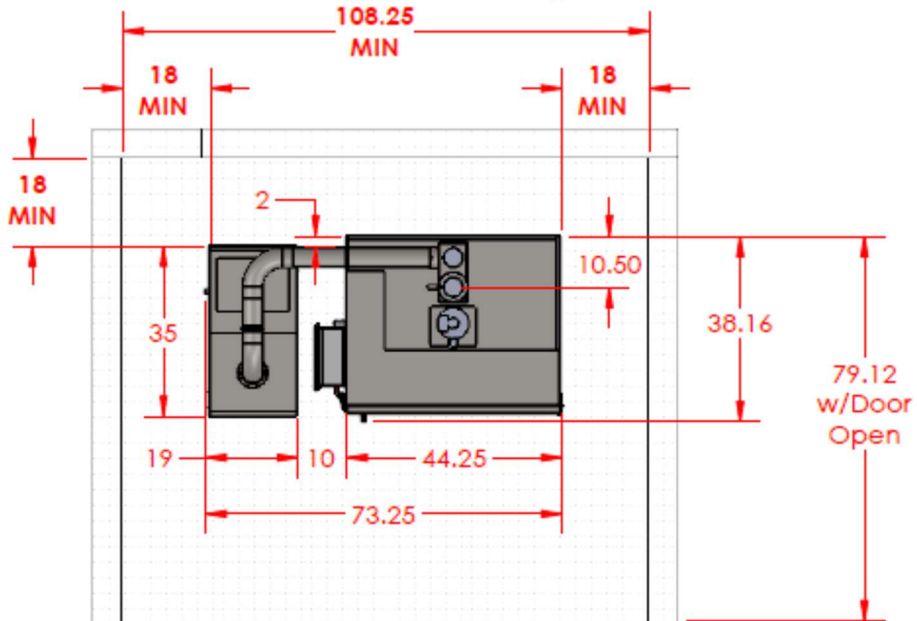


NOT OPTIMAL – VERY RESTRICTIVE AIRFLOW



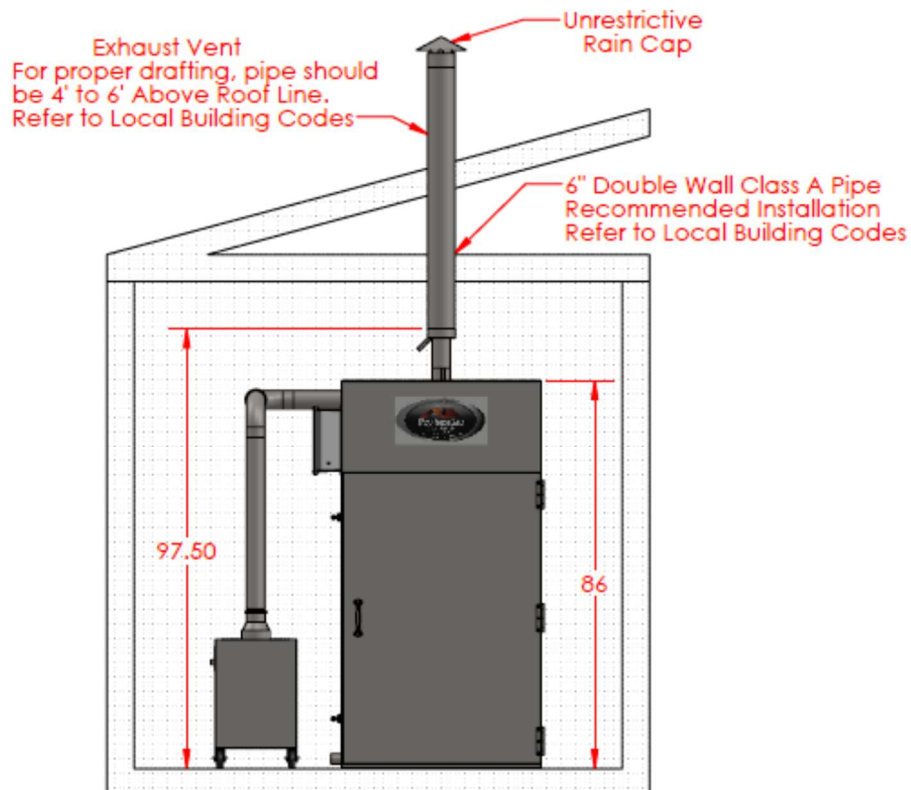
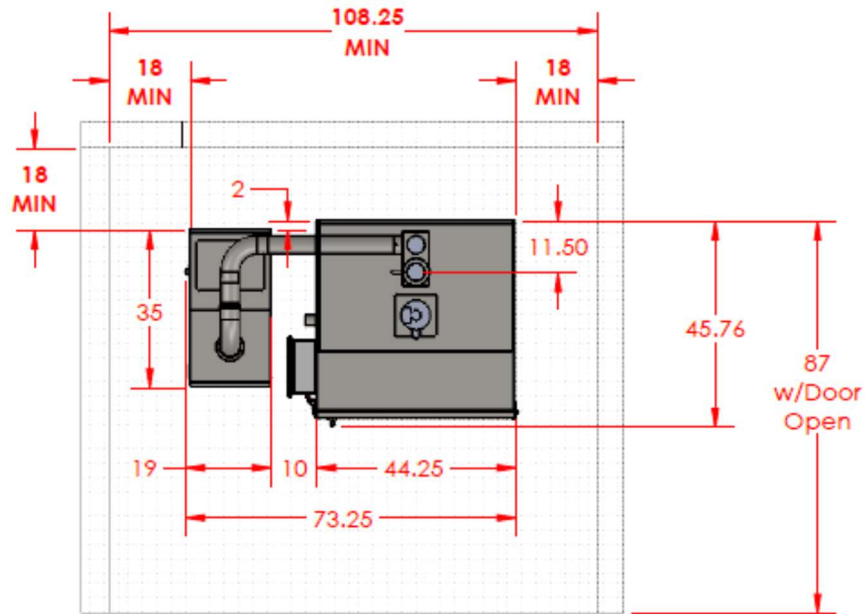


320T-HVE, E-Series Smoker Footprint (HVE layout shown)



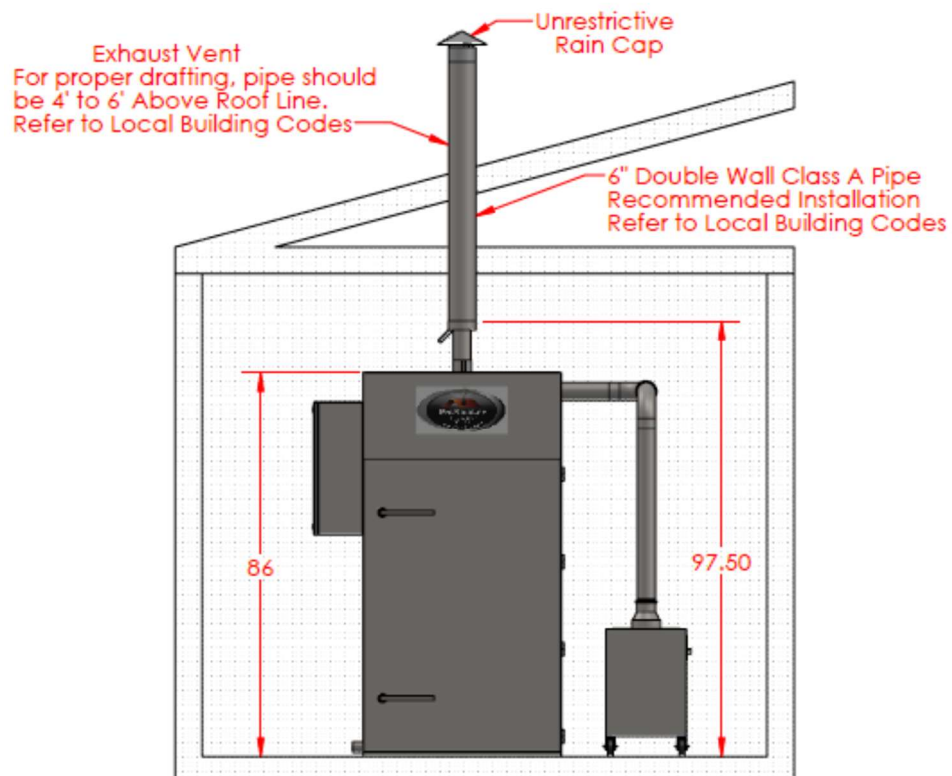
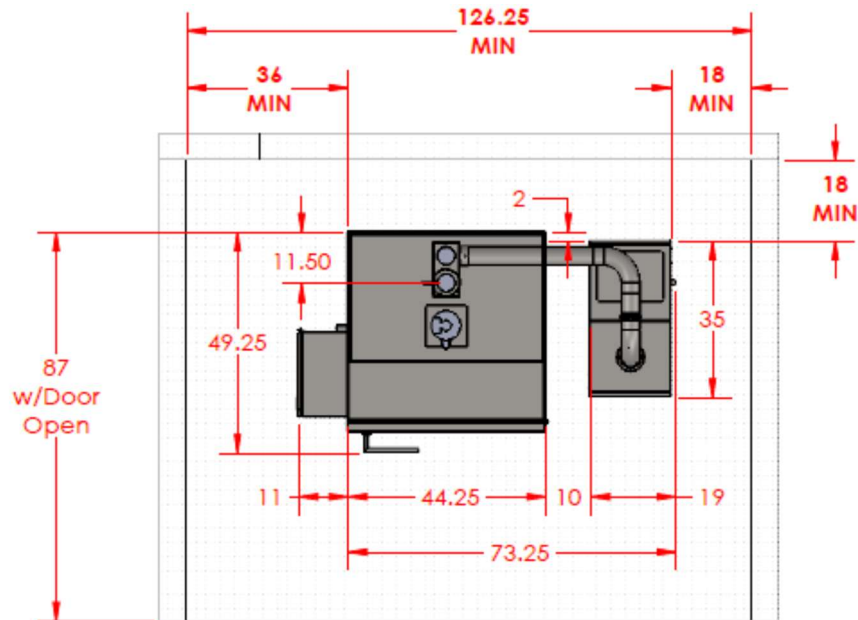


500T-HVE, E-Series Smoker Footprint (HVE layout shown)



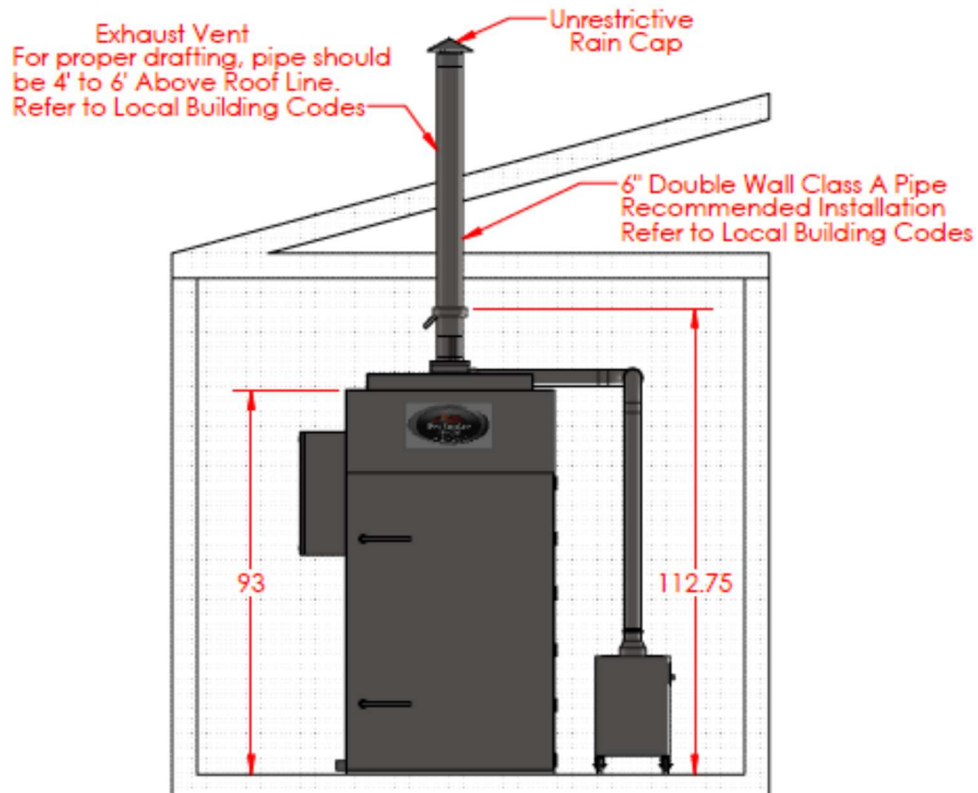
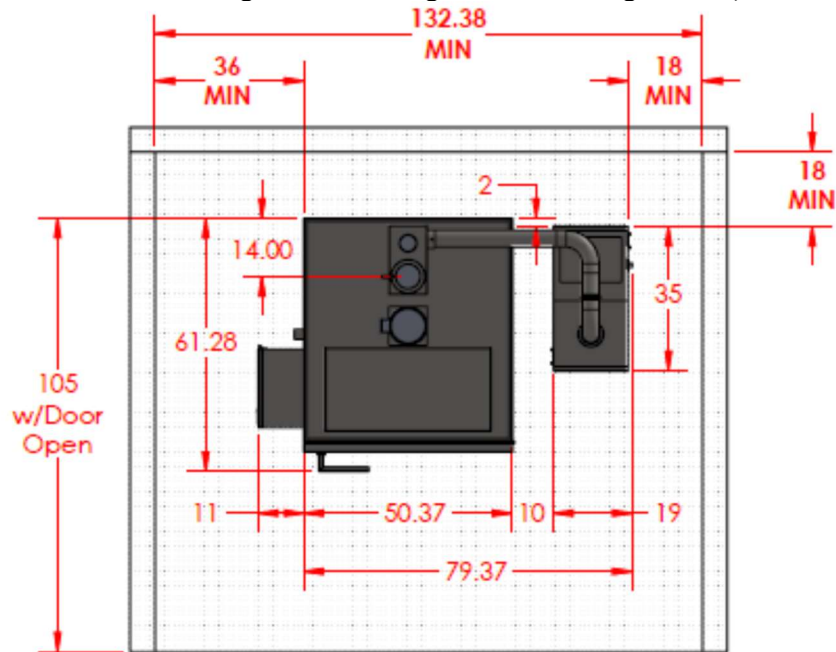


500T, T-Series Custom Smoker Footprint (with left side control, left side drain, right side smoke generator and right side door hinge shown)



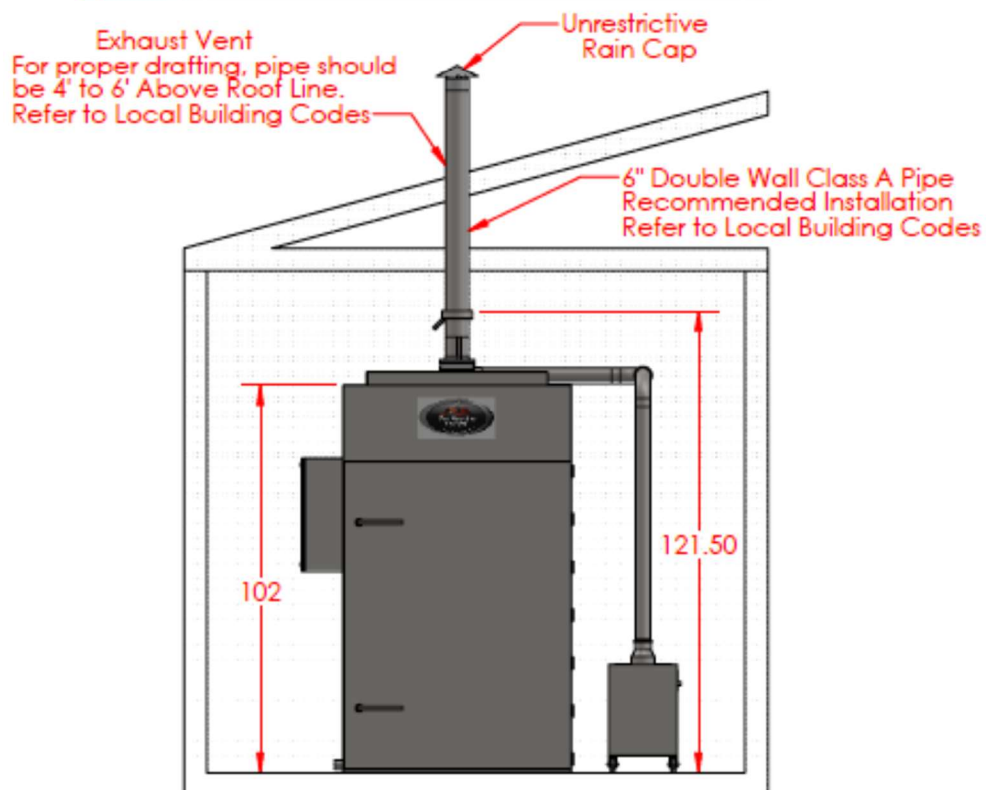
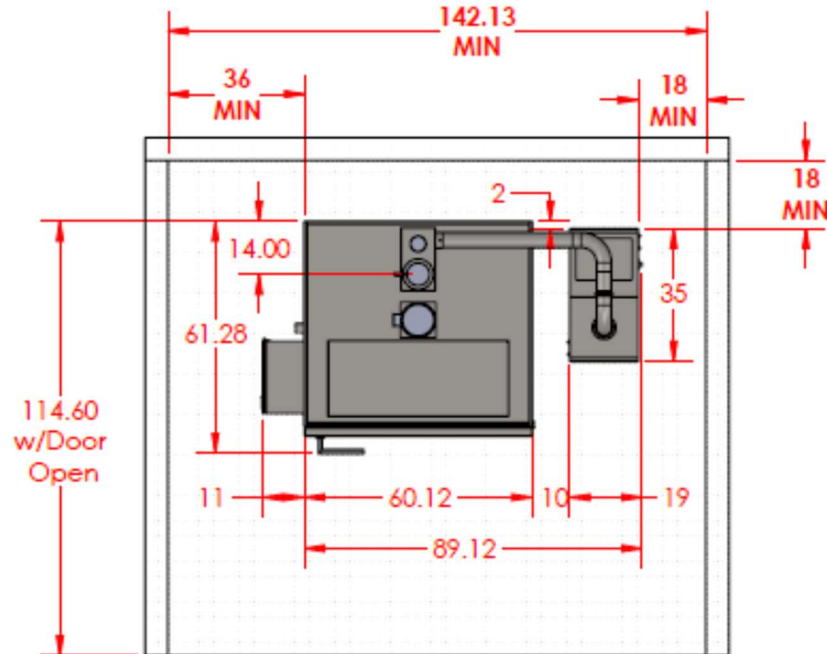


700T, T-Series Custom Smoker Footprint (with left side control, left side drain, right side smoke generator and right side door hinge shown)



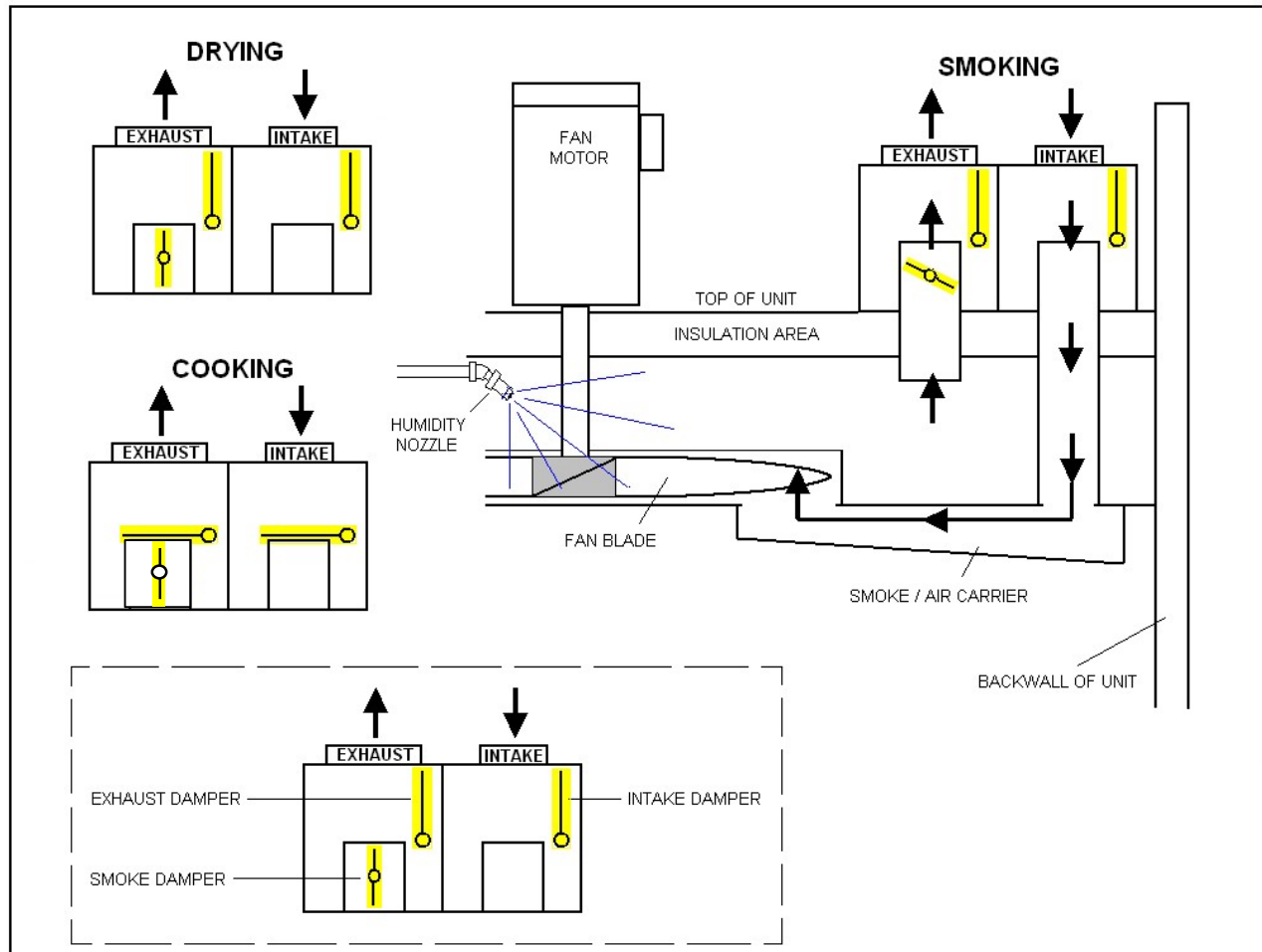


1100T, T-Series Custom Smoker Footprint (with left side control, left side drain, right side smoke generator and right side door hinge shown)





DAMPER POSITIONS



Your Pro Smoker smokehouse has 3 dampers. Exhaust Damper, Fresh Air Intake Damper and Smoke Damper.

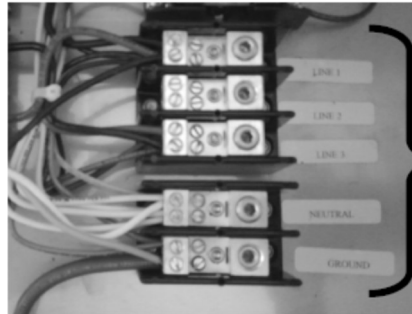
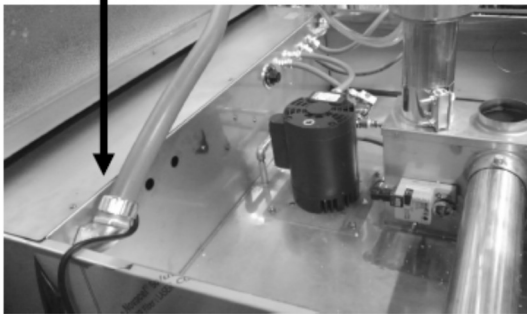
- In Drying Program: All 3 dampers are open allowing maximum airflow through system
- In Smoke Program: The exhaust and intake dampers are open with the smoke damper closed to it's set position
- In Cooking Program: The exhaust and intake dampers are closed, the smoke damper is open
- In Shower Program: All dampers are open



Electrical connections

- CHECK INFORMATION PLATE FOR CORRECT VOLTAGE!
- Single Phase units will require a 4 wire setup (L1, L2, a neutral and a ground)
- Three Phase units will require a 5 wire setup (L1, L2, L3, a neutral and a ground)
- 208, 240 or 480 VAC (as specified) runs to the main distribution block in the control panel. Confirm that the information plate and wiring diagram matches the power requirements. If these do not match, all Pro Smoker
- 120V power comes from the L1 connection. If separate 120V power supply needs to be run, connect to 10amp fuse block in control panel (also applies to 480V systems)
- The Pellet Smoke Generator is plugged into the 120VAC cord located under the main control panel which is supplied power by the micro processor
- Optional sawdust smoke generator has power supplied directly to it from smokehouse with a 5 wire cord.
- Install a wall mounted disconnect typically within arms reach of the smokehouse. Refer to local electrical codes.

Water-tight conduit run to knockout on electrical panel (top of smokehouse)



Landing Lugs on top of Smokehouse for wire terminations

ONCE YOUR SMOKEHOUSE IS WIRED, CONTACT PRO SMOKER BEFORE INITIAL START UP.

SEE SINGLE PHASE AND 3-PHASE WIRING DIAGRAMS (next 2 pages)



120/240 VAC 1-PHASE WITH PELLET SMOKE GENERATOR

