

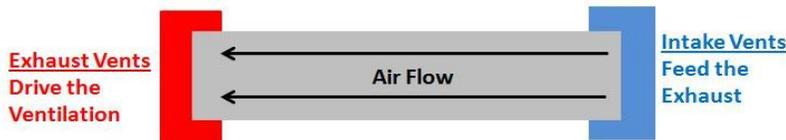
Shipping Container Venting – Wind Powered

Ventilation Design for a Condensation free Container

Exhaust: The Exhaust vent forces airflow, more wind the better. Spend time around the container to determine the windiest area, door end, sides or back. This is where the **“360 Wall Exhaust”** should be installed. Try to guesstimate the wind speed and duration in a day. An average of 5mph of wind for about half a day appears to be a minimum threshold for most regions. A 3 mph wind is walking speed, hardly noticeable. Gusts and turbulence are both very beneficial. Even thermals, which are common but seldom noticed, all encourage airflow thru out the day.



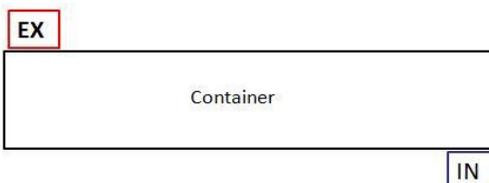
Intake: Regardless how many of the small stock rectangular vents are presently on the walls, a proper intake will be required at the opposite end of the Exhaust. This will allow air to pull throughout the entire container. One intake can sufficiently feed 2 Exhaust vents. Intake location is not as critical as the exhaust (if possible mount on the shady side). Side walls are a different profile than rear walls, as per the two intake pictures below.



Vent options for installation: The goal is to maximize the conditions of the container location, its size and how its positioned regarding wind direction, wind obstacles and sun / shade. To allow for these variables there are products that fit the different walls. The Exhaust Vent can be installed on any of the 4 walls. Adapter plates as pictured, will be required for the sides and rear. Intake vents can be installed on the rear or sides, but not the doors. You must order the correct adapter and intake as per your requirement. See [“Purchase”](#)



Vent Quantity: A forty foot container needs more ventilation than a 20 footer. The formula works on how many complete air exchanges / day. To date our customers from coast to coast have all had success with a minimum of 20 complete air exchanges / day. Obviously wind conditions vary per location, so the vent quantity can be adjusted to make up for the lower wind speed conditions, or if it's a larger container. **If you have a minimum of 5 mph / half the day, a 20 foot container should be ok with 1 exhaust and 1 intake. A forty foot, 2 exhaust and 1 intake.** If multiple exhausts are required they should be on the same wall, with one profile spacing between. Intake have no limitations but must be at the opposite end or diagonal of the exhaust, as pictured below.



We strongly advise the [“8 steps to a dry container”](#) be reviewed and if possible, implement some of those steps.