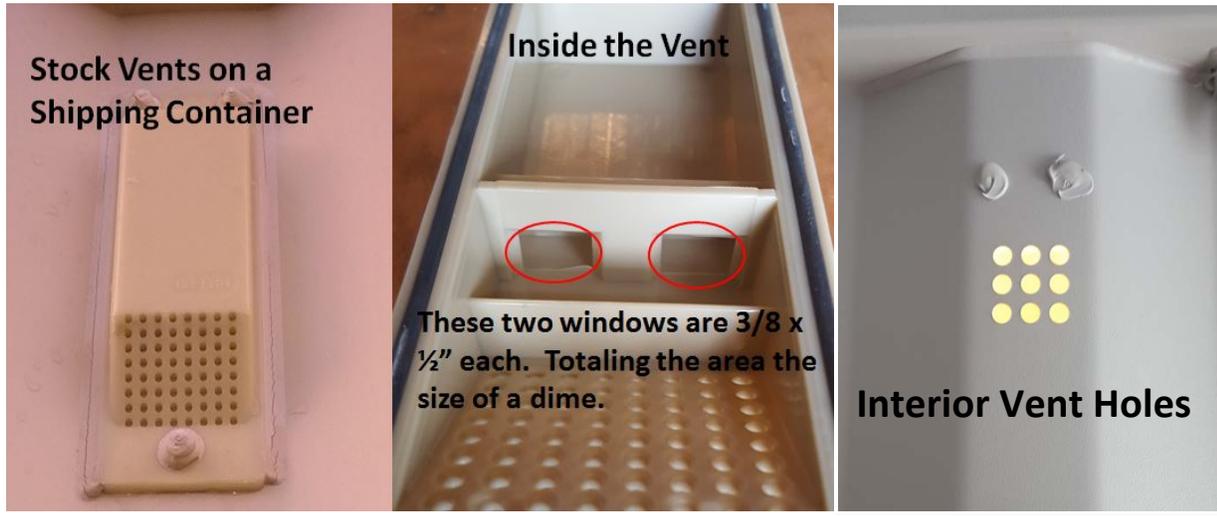


Stock Conex Vents

Located on the side walls a few inches from the top of most shipping containers you will find the vents pictured below. This is the only vent used in the industry, installed by the manufactures. All shipping containers are sealed, the rubber gaskets on the doors are well designed to insure water does not enter during cross ocean travels. The vents are also designed to keep out sea water with the use of 3 baffles. Seldom will a container have more than 8 of these vents, providing a total air passage way of less than 3 sq. In. ($1 \frac{3}{4}$ " x $1 \frac{3}{4}$ "), it is very small, obstructive air passage way. These vents provide pressure equalization during travel, not ventilation.



A forty foot container has approximately 2600 cu ft of interior space. You need over 60 - 70 of these vents to have an equivalent to our air intake vent. Note, these are passive vents, such as our container intake. A ventilation driver is still required, whether it's a fan, turbine or our "Wall Exhaust".

Ventilation Comparisons on a 40' Container



The Honeywell 8" fan (an efficient air mover) on low speed, exhausts approximately 80 cu ft / min, providing about 44 complete air exchanges /24 hours. That is more air movement that is required in most cases. Depending on the port used, most external winds would counter the fans exhaust process, reducing the draw rate. The only way to correct this would be to use the "Wall Exhaust" as a port for the fan. Intake still required



A wind powered 12" rooftop turbine, has a draw rate of about 8 cu ft / min / 1 mph. It will provide about 22 complete air exchanges on a 40 footer with a daily 5 mph wind. The down side is, it's a difficult install on a corrugated roof, it has no bug screen, and has a mechanical failure component. Made of metal, this is another place for condensation to form. Wind driven mechanical devices have both, a low and high wind threshold. It will not exhaust with thermals. Intake required



Our wind powered "Wall Exhaust" has a draw rate of about 4 cu.ft / min / 1mph. Provides about 11 air exchanges with a daily 5 mph wind. It would take two vents on a 40' conex to provide sufficient air exchanges for controlling condensation (equivalent of the Turbine). It's an easy install, gains draw rate with turbulence and thermals. Intake required