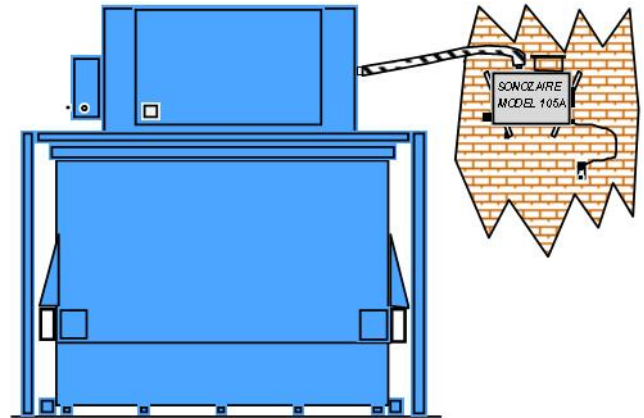


SONOZAIRE[®] Odor Neutralizer

The Waste Industry's Solution to Compactor Odor Problems

Four Models Available to Match Your Needs



Sonozaire Model 105A Wall-Mounted Near a Vertical Compactor

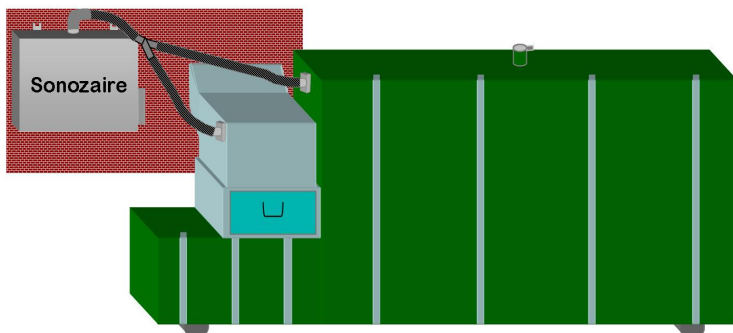
Sonozaire Odor Neutralizers generate ozone from the oxygen in the air. Ozone is the same mildly refreshing substance present after a heavy thunderstorm. It indicates that the odors and germs in the area have been destroyed (oxidized). Injecting ozone directly into the location of the odors destroys them immediately and continuously. Destruction of odor results is a clean-smelling area that does not harbor and protect bacteria—ending complaints and assuring customer satisfaction.

The Sonozaire models cost only pennies per day for operation and require only periodic cleaning. The Sonozaire models are 100% adjustable to match the odor levels of the garbage. Not only do all models remove odors, but they also prevent fermentation and retard bacterial growth and slime production.

The Sonozaire's newest model 105A (indoor) is designed for small garbage compactor/containers or standard refuse containers, for the control of odors. It works extremely well in waste rooms for apartments.

Sonozaire Features:

- ◆ Destroys Odor Molecules Electronically & Prevents Pest Attracting Odors
- ◆ Uses No Chemicals
- ◆ Installs in Minutes
- ◆ Plugs into 115V Outlet (220V, 50Hz Optional)
- ◆ Low Operating Cost
- ◆ Simple Dial Operation to Match Odor Level
- ◆ Quick Connection & Disconnection from Compactor/Container
- ◆ Provides Cooling to Compactor/Container
- ◆ Free Technical Support



Sonozaire Models Work on Both Stationary and Self-Contained Compactors

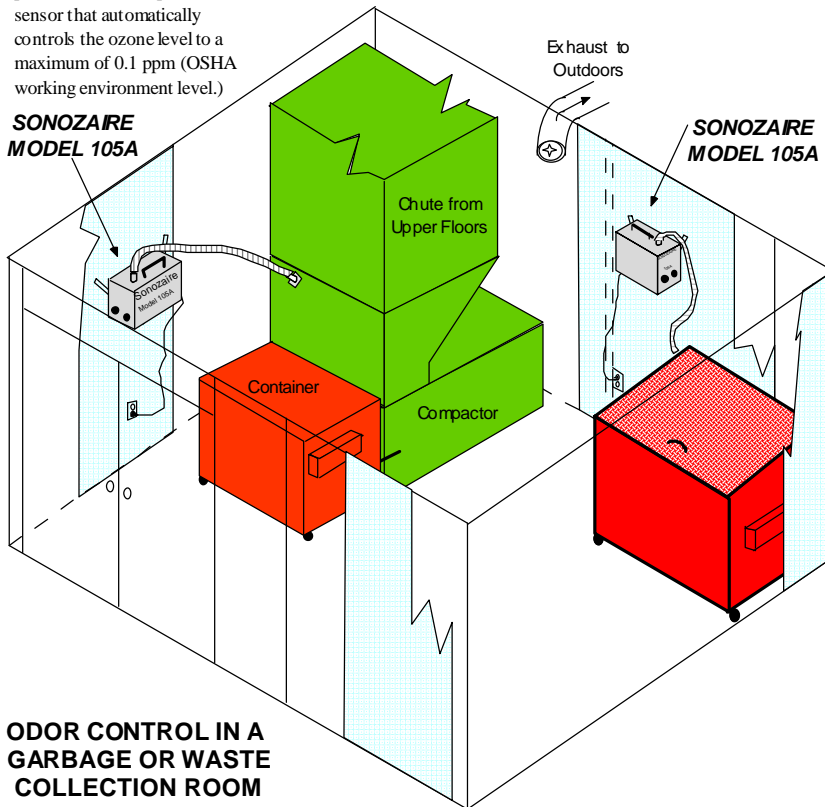
**High Quality
at a Low Cost**

800-323-2115

Sonozaire Odor Neutralizer

All Sonozaire Models can be provided with an optional ozone sensor that automatically controls the ozone level to a maximum of 0.1 ppm (OSHA working environment level.)

SONOZAIRE MODEL 105A



ODOR CONTROL IN A GARBAGE OR WASTE COLLECTION ROOM

Optional Items:

- ◆ PVC Flex Hose
- ◆ Alum. Flanges
- ◆ Alum. Y Fittings
- ◆ PVC Elbows
- ◆ SS Hose Clamps
- ◆ Weatherproofing
- ◆ Wall Mounting Kit
- ◆ 24 Hour Timers (Programmable)
- ◆ Ozone Sensors



Model 630A shown with weather-proof cover over controls, flexible hose, Y outlet, flanges, and hose clamps.

Sonozaire Models

Applications	105A	115A	330 A	630 A
Compactor/Container (cu yards)	0 to 4	4 to 8	8 to 30	30 to 50
approx volume (cu meters)	0 to 3	3 to 6	6 to 23	23 to 38
Garbage Room (cu feet)	200 to 1800	405 to 3,240	3,240 to 12,150	12,150 to 20,250
approx volume (cu meters)	6 to 50	11 to 92	92 to 344	344 to 574

Cabinet

Dimensions (LxHxD inches)	12.4 x 10.7 x 6.5	22 x 20 x 7.5	24 x 27 x 14	36 x 27x 14
(LxHxD cm)	31.5 x 27.2 x 16.5	56 x 51 x 19	61 x 69 x 36	91 x 69 x 36
Weight (lbs)	9	32	58	85
(kg)	4	14.5	26.3	38.6

Equipment Specifications

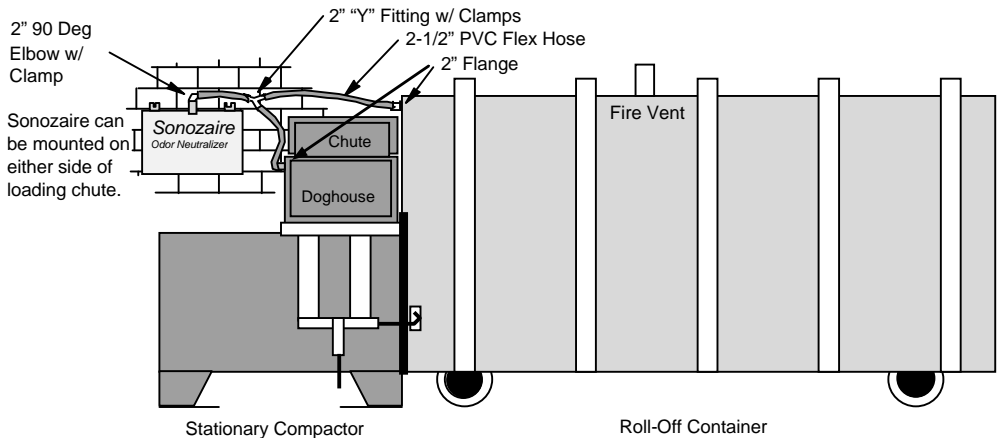
Electrical Power (watts)	40	70	125	260
Blower Air Volume @ 0" SP				
@ 60hz (cfm)	16	60	60	100
@ 50hz (cu m hr)	13	86	86	141

Equipment is designed for 115 volt, 50/60 hz, 1 ph (Optional 220-240 volt, 50/60 hz, 1 ph) AC only

Sonozaire Odor Neutralizers are industrial ozone generators and are to be utilized in uninhabited areas or in volumes limited by OSHA regulations. Ozone level controls are available.

COMPACTORS/CONTAINERS

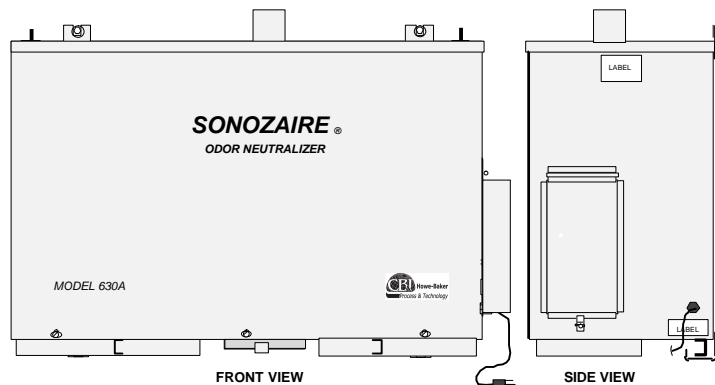
The Sonozaire units are recommended for garbage compactors/containers for the control of odors. Ozone controls or removes garbage odors, prevents fermentation, retards bacterial growth and slime production, destroys odors that attract pests, and provides cooling to the compactor/container. Sonozaire helps reduce customer and consumer complaints, and operates without expensive chemicals or masking perfumes. The Sonozaire costs only pennies per day for operation and requires only periodic cleaning.



COMPACTOR AND ROLL-OFF CONTAINER INSTALLATION

Normally, the Sonozaire mounts separately from the compactor/container, and the ozone discharge is “piped” into the compactor/container. The Sonozaire works best if mounted indoors, where it has a cool, dry air supply and has the ozone piped outside to the compactor/container. If the Sonozaire is mounted outside, it should be mounted in a weather-protected area, or it should be ordered with the optional weatherproofing kit. To prevent any moisture from draining back into the Sonozaire, mount it with the discharge higher than the connection point to the compactor. The piping can consist of PVC pipe type I (un-plasticized) or flexible PVC hose, flange(s), and a “Y” fitting, which may be required to direct the ozone to the desired locations. Use hose clamps on the items with hose connections, such as the “Y” fitting, but do not use hose clamps where the hose must be disconnected for removal of the container. It is essential that the Sonozaire output piping be placed in such a way as to avoid any possible clogging of the opening with garbage. Install the flexible hose or piping to prevent low points, which might become filled with moisture and block the ozone flow into the compactor/container. It is advisable to place the Sonozaire outlet at the chute or ram end (doghouse) of a compactor and at the upper end of a container. Ozone reacts quicker when it treats the odor at the source. Do not locate hose where ozone blows out of the chute door.

The Sonozaire units supply 60 cfm or 100 cfm of ozonated air and require a means for the treated air to exit the compactor/container. The fire hose vent will normally provide this exhaust means and should remain open. If there is no location for treated air to exit the equipment, then a vent location must be added.



SONOZAIRE MODEL 630A WITH WEATHERPROOFING AND WALL HANGER KIT

When a Sonozaire unit is in service, adjust the ozone level knob on the side of the unit to eliminate the odor. If objectionable garbage odor is detected in the general area around the compactor/container, increase the control knob. If excessive ozone is detected, decrease the control knob. Higher ambient temperatures require more ozone to treat the greater odor levels caused by heat.

**CONT'D -
(WASTE MANAGEMENT INDUSTRY)**

The type of garbage will also determine the Sonozaire model selected. If the waste contains a large amount of organic, odor-producing materials, such as vegetables, meats, eggs, etc., and the compactor/container size is near the maximum size indicated, then the next size Sonozaire is recommended. An example would be if a 25 or 30-yard compactor/container were used with large amounts of organic waste, then a model 630A is recommended over a model 330A.

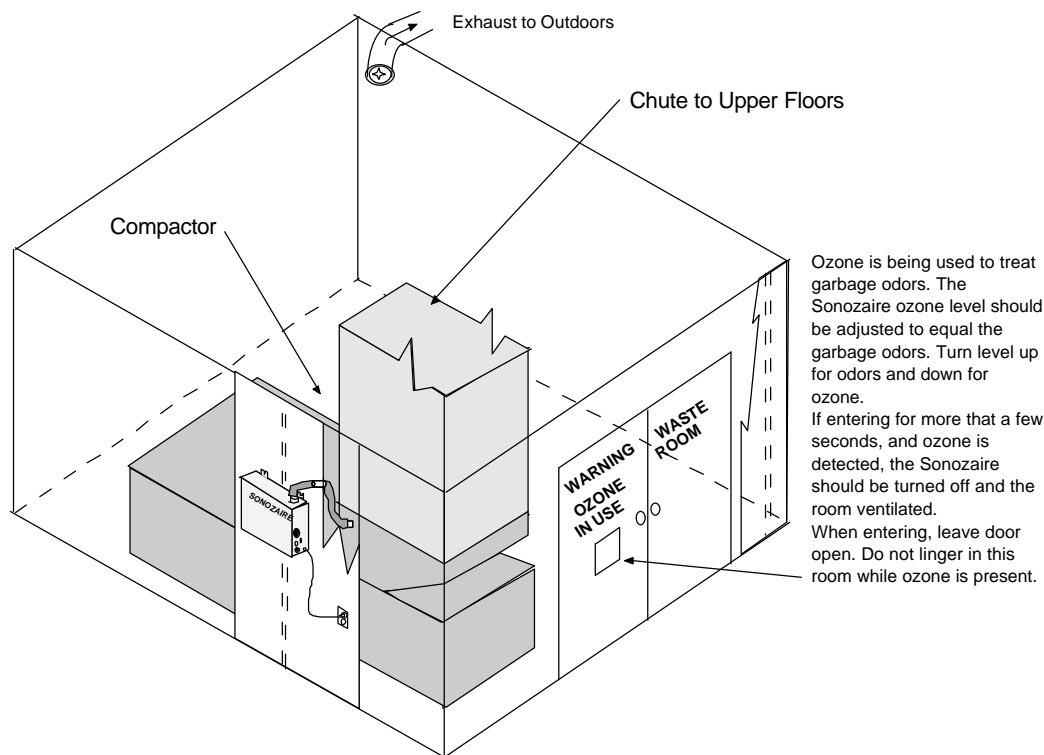
Compactor/Container Approximate Sizing:		
Model 115A	Model 330A	Model 630A
0 to 8 cu yd	8 to 30 cu yd	30 to 50 cu yd
0 to 6 cu m	6 to 23 cu m	23 to 38 cu m

GARBAGE ROOMS WITH OR WITHOUT COMPACTORS

When installing the Sonozaire in a compactor or garbage room, it is best to install it with the ozone piped into the compactor and attached to the chute or hopper. If possible, mount the Sonozaire outside the room and pipe into the room, and over to the compactor. A vent from the room to the outside is necessary to allow air to leave the room.

If the garbage room does not have a compactor or if it has an open container, then the room partially serves as the ozonated area. In all cases, the Sonozaire should have the output adjusted to equal the garbage odors. If ozone is noticed, lower the level control knob. If garbage odor is noticed, then increase the level control knob. There is no reason to saturate the room with ozone; just adjust the ozone output to what is necessary to control the odor. The ozone should be injected as close to the garbage as possible.

For an enclosed garbage room, certain precautions should be observed. A **warning sign** should be placed on the doors entering the room, warning that ozone is being used. It is also advisable that the door(s) remain open when entering the room. If anyone enters the room for more than a few moments and smells excessive ozone, then the Sonozaire should be turned off. The room should then be mechanically ventilated or a time period must be allowed for the ozone level to decrease. This time limit should be 15-30 minutes at a minimum. If anyone enters the room, caution should be exercised so that they are not exposed to ozone for prolonged periods.



GARBAGE OR WASTE COLLECTION ROOM

**CONT'D -
(WASTE MANAGEMENT INDUSTRY)**

This demonstrates that it is better to have the Sonozaire mounted outside the room, so it is controllable without going into the garbage room. It is also easier to clean and provide any normal maintenance required without being in the garbage room. However, if the Sonozaire is mounted in the garbage room, it should be mounted on the wall near the container. If a container is not used, the recommended installation is that the unit be mounted near a doorway and piped over to the treatment area. The room should allow some fresh air to enter, as the Sonozaire needs fresh air as a source to make ozone. The Sonozaire output piping should be routed in such a way as to avoid any possible clogging of the opening with garbage. Install the flexible hose or piping to prevent low points, which might become filled with moisture and block the ozone flow into the compactor/container.

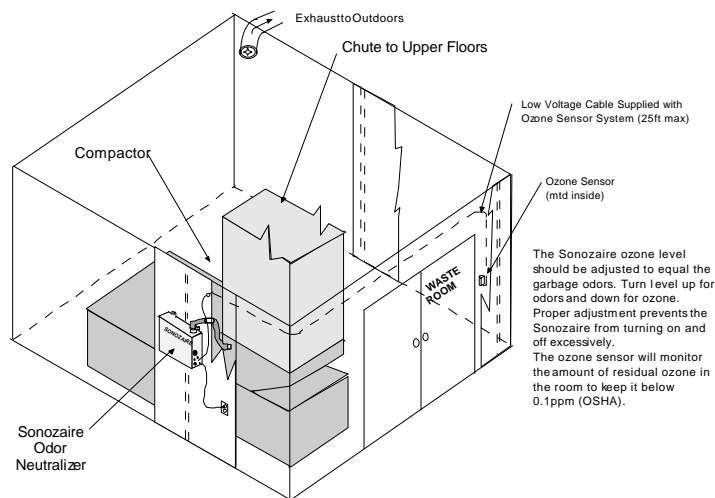
Often the garbage room or containers load from chutes coming from upper floors, and garbage bags drop down to the room or container. With this arrangement, the odors can draft upwards to the chute openings. Placing the Sonozaire at the garbage area will generally solve this problem because the ozone will destroy the odors at the source and prevent the odors from being drafted upwards. If excessive ozone is noticed, lower the setting on the level control knob.

In garbage rooms or holding areas, the cubic yardage of garbage determines the proper selection of the Sonozaire model. It is not necessary to use the room volume when calculating, only the volume of garbage. Use the chart for the compactor container sizing based on volume. Below, however, is an estimated volume of room that contains some amounts of non-compacted garbage:

Garbage Rooms Approximate Sizing:		
Model 115A	Model 330A	Model 630A
405 to 3,240 cu ft	3,240 to 12,150 cu ft	12,150 to 20,250 cu ft
11 to 92 cu m	92 to 344 cu m	344 to 574 cu m

How much ozone is enough? When a Sonozaire unit is in service, adjust the ozone level knob on the side of the unit to eliminate the odor. Typical initial setting is 50-60 on the output dial. In the garbage room, if objectionable garbage odor is detected, increase the control knob. If excessive ozone is detected, decrease the control knob. Higher ambient temperatures require more ozone to treat the greater odor levels caused by heat.

Some garbage rooms have minimal odors; therefore, it may not be necessary to operate the Sonozaire units 24 hours a day. In this case, the units can be ordered with the optional 12-hour timer with hold-on feature. Another method of operation is to order the outdoor clock timer accessory that cycles the unit on and off periodically. In garbage rooms, ozone sensors are also available to turn on and off the Sonozaire based upon residual ozone levels.



**GARBAGE OR WASTE COLLECTION ROOM
with OZONE LEVEL CONTROL**

The Sonozaire models can also be used in other areas of the waste management industry. They can be used with balers, packers, and at transfer stations. The Sonozaire units are to be used in a manner that prohibits excessive exposure to workers. Ozone can also be used to treat garbage trucks while they are not in use. Sonozaire units can be mounted on stands and have the ozone piped over to the refuse body for odor removal at night, or during off-hours. The ozone destroys the odors and bacteria, improving the truck's sanitation for the employees.