

## **REEDTower™ Reed Preservation System Instruction Manual and Parts List.**

**A video manual can be found on the REEDTower.com website**

Thank you for purchasing the REEDTower Reed Preservation System from Lying Awake Creations, llc.

REEDTower is designed to be used with baritone, tenor, alto, and soprano saxophone natural cane reeds. Bb clarinet and bass clarinet natural cane reeds can also be used. Other types of reeds such as synthetic, double, Eb clarinet, and/or sopranino reeds have not been tested.

The REEDTower Reed Preservation System consists of three main components.

- 1) REEDTower CO<sub>2</sub> AltAir Case with the Center Column.
- 2) REEDTower Vertical Case.
- 3) REEDTower Pressure Bound Vertical Reed Holders.

Each main component is designed to help your saxophone and clarinet reeds stay usable longer. The REEDTower CO<sub>2</sub> AltAir Case with the Center Column uses the patent pending Reusable Altered Climate Preservation Enclosure System (RACPES) for longer reed usability. The REEDTower Vertical Case allows the player to rotate an extra set of reeds in and out of REEDTower CO<sub>2</sub> AltAir Case. Lastly, the patent pending REEDTower Pressure Bound Vertical Reed Holders are intended to keep your reeds in a vertical resting position while maintaining them perfectly. REEDTower Pressure Bound Vertical Reed Holders prevent warping and are designed to allow moisture to flow towards the tip of the reed while at rest.

Also with the REEDTower Reed Preservation System is an included CO<sub>2</sub> starter kit nozzle, cartridge sleeve protector, presta valve core remover tool, and 4 threaded CO<sub>2</sub> cartridges. Additional threaded CO<sub>2</sub> cartridges can be found through many retailers. The presta valve core remover tool is included should the valve core become worn out and need replacement. Replacement presta valve cores can also be found through many retailers.

**View the REEDTower.com website for more information, videos, F.A.Q. page, and product policies page.**

## **What is the Reusable Altered Climate Preservation Enclosure System (RACPES)?**

The Reusable Altered Climate Preservation Enclosure System (RACPES) is a patent pending design and the next logical step of an invention from the late 20th century called Modified Atmospheric Packaging (MAP). MAP is a method of expelling the regular oxygenated air we all breathe from the packaging of perishable goods. It works by injecting an inert gas, such as carbon dioxide ( $\text{CO}_2$ ) into the package just before it is sealed. This method forces out the regular oxygenated air from the package and replaces it with the inert gas. This is beneficial because without remaining oxygen inside the package, microorganisms such as bacteria and mold cannot flourish. This method is now very commonly used in the food packaging industry. MAP is also used in many other industries such as pharmaceutical, cannabis, chemicals, flowers, cosmetics, mining, and anywhere oxygen depletion has preservation benefits.

MAP does have one major drawback. That is, once the package is opened the benefit ends. RACPES, allows the consumer a way to recapture the preserving benefits of oxygen depletion. This patent pending system uses commonly available carbon dioxide ( $\text{CO}_2$ ) canisters to force the regular oxygenated air out of the container. Thus, creating an altered inside air climate. Carbon dioxide ( $\text{CO}_2$ ) also has one additional characteristic.  $\text{CO}_2$  dissolves into moisture and fats, forming carbonic acid and lowering the surface pH. This change in acidity disrupts the metabolic functions of microorganisms.

## **What are the Pressure Bound Vertical Reed Holders and how do they work?**

REEDTower Pressure Bound Vertical Reed Holders are a patent pending design that preserve reeds in their best condition. They feature multiple small triangular windows on the flat side of the reed to allow the oxygen to be forced out when using the REEDTower  $\text{CO}_2$  AltAir Case. The top side of the reed is held down gently by the biding force applied to both the tip and body. Much like a paper binder clip, both sides of the REEDTower Pressure Bound Vertical Reed Holders keep the reed firmly in place with light pressure applied to the tip and body. Also the REEDTower Pressure Bound Vertical Reed Holders have a small binding plate at the tip of the reed. This applies pressure on the tip and helps prevent moisture from escaping there while preventing warping. Lastly, reeds are maintained in the vertical stance while not in use. This insures any remaining moisture within flows evenly towards the tip. When reeds are left in a horizontal position, the remaining moisture will tend to first escape towards both ends of reed. This leaves the center heart of the reed as

the last to have remaining moisture while the tip and heel ends dry out first. This effect can lead to warping especially at the tip where the reed is thinnest.

Consider that reeds are made from the *Arundo donax* cane. It grows strait, tall, and vertically. It is only natural that preserving reeds in the same way they came out of the earth is proper.

## **Product Warnings**

The REEDTower Reed Preservation System contains many small parts. Keep away from children.

Do not attempt to over inflate the REEDTower CO<sub>2</sub> AltAir Case. Use only a single 16 gram carbon dioxide (CO<sub>2</sub>) cartridge per preservation cycle.

Do not use the REEDTower CO<sub>2</sub> AltAir Case without the Center Column inside. Doing so will make the REEDTower CO<sub>2</sub> AltAir Case ineffective.

Only use threaded CO<sub>2</sub> cartridges. Non-threaded CO<sub>2</sub> cartridges are not compatible.

Do not inhale CO<sub>2</sub> gas.

Do not point CO<sub>2</sub> nozzle toward yourself or any other living thing.

Use CO<sub>2</sub> gas cartridges only. Do not use other gasses with the REEDTower Reed Preservation system.

Use in a well ventilated space when discharging CO<sub>2</sub> cartridges.

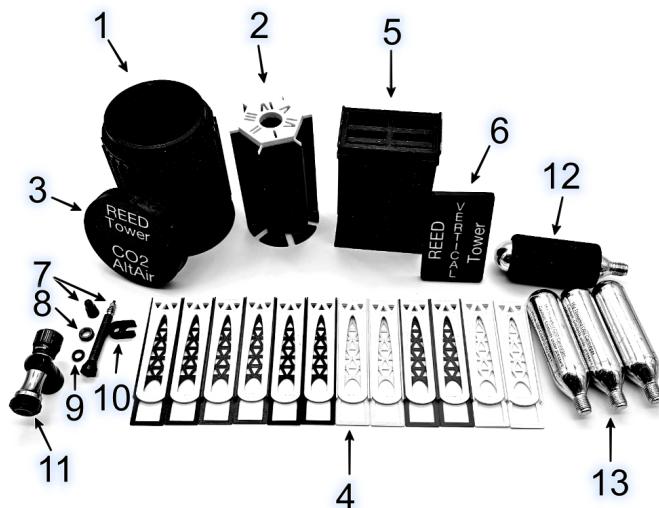
CO<sub>2</sub> cartridges contain high pressure gas. Do not unscrew or attempt to remove CO<sub>2</sub> cartridge air nozzle from CO<sub>2</sub> cartridges until the gas is fully expelled. CO<sub>2</sub> cartridges should be fully expelled within 24 hours after first puncture.

CO<sub>2</sub> cartridges will become extremely cold during discharge. Use only with the provided cartridge sleeve protector to prevent possible frost bite.

Do not expose CO<sub>2</sub> cartridges to temperatures greater than 120°F / 40°C.

## Product Instructions:

The REEDTower Preservation System consists of 14 parts (see part list) and packaging. Please check for all parts in box before initial use.



## PARTS LIST

1	1	REEDTower CO <sub>2</sub> AltAir Case
2	1	REEDTower CO <sub>2</sub> AltAir Center Column
3	1	REEDTower CO <sub>2</sub> AltAir Lid
4	12	REEDTower Pressure Bound Vertical Reed Holder
5	1	REEDTower AltAir Vertical Case
6	1	REEDTower AltAir Vertical Lid
7	1	REEDTower CO <sub>2</sub> AltAir Presta Valve Stem With Cap
8	1	REEDTower CO <sub>2</sub> AltAir Presta Valve Nut
9	1	REEDTower CO <sub>2</sub> AltAir Presta Valve Washer
10	1	REEDTower CO <sub>2</sub> AltAir Presta Valve Core Remover Tool
11	1	CO <sub>2</sub> Nozzle Starer Kit
12	1	CO <sub>2</sub> Cartridge Sleeve Protector
13	4	CO <sub>2</sub> Cartridge 16g
14	1	Thank You Card (Not Shown)

The REEDTower CO<sub>2</sub> AltAir Case + Lid, Center Column, Presta Valve parts, and 6 REEDTower Pressure Bound Vertical Reed Holders are all enclosed and in the same packaging. In addition, the REEDTower Vertical Case and 6 more REEDTower Pressure Bound Vertical Reed Holders (12 total) are all enclosed in a separate packaging placed inside the same packaging also containing the CO<sub>2</sub> Starter Kit.

Assemble the REEDTower CO<sub>2</sub> AltAir Case Lid and Presta Valve parts. Place the Presta Valve Stem through the bottom side hole of the CO<sub>2</sub> AltAir Case Lid. Wrap the Presta Valve Stem Washer around the top of the Presta Valve Stem and move it towards the CO<sub>2</sub> AltAir Case Lid topside hole. Screw on tightly with your fingers the Presta Valve Nut. Do not over tighten with any tools. Screw on the included Presta Valve Stem Cap for safe keeping.

## **How to use the REEDTower CO<sub>2</sub> AltAir Preservation System**

### **REEDTower CO<sub>2</sub> AltAir Case**

Lift the top side tab and insert, tip first, your saxophone or clarinet reed inside the (4) REEDTower Pressure Bound Vertical Reed Holder.

Insert (4) REEDTower Pressure Bound Vertical Reed Holders with the reeds inside between the inner wall of the (1) REEDTower CO<sub>2</sub> AltAir Case and (2) REEDTower CO<sub>2</sub> AltAir Center Column. Up to 6 reeds may be used at a time.

Screw on the (3) REEDTower CO<sub>2</sub> AltAir Lid to the (1) REEDTower CO<sub>2</sub> AltAir Case. Do not tighten at this stage.

Place the (12) CO<sub>2</sub> cartridge sleeve protector over the (13) CO<sub>2</sub> cartridge. **CO<sub>2</sub> cartridges will become extremely cold during discharge. Do not discharge without the (12) CO<sub>2</sub> cartridge sleeve protector.**

Be certain the (11) CO<sub>2</sub> Nozzle is in the fully closed off position before the next step.

Screw on tightly the (13) CO<sub>2</sub> cartridge with (12) CO<sub>2</sub> cartridge sleeve to the (11) CO<sub>2</sub> Nozzle. Do not yet open air nozzle.

Remove cap and loosen open the (7) CO<sub>2</sub> AltAir Presta Valve Stem top open/close screw. Do not completely remove the top open/close screw.

Screw onto the (7) CO<sub>2</sub> AltAir Presta Valve Stem the (11) CO<sub>2</sub> Nozzle and attached (13) CO<sub>2</sub> cartridge with (12) CO<sub>2</sub> cartridge sleeve. Do not over tighten.

**Very slowly open** the (11) CO<sub>2</sub> Nozzle halfway. **Do not open too quickly.** Doing so will cause the (3) REEDTower CO<sub>2</sub> AltAir Lid to pop off to prevent over pressurization (this is by design) and the preservation process will need to be started over again with a new CO<sub>2</sub> canister. As the (11) CO<sub>2</sub> Nozzle is slowly opened, you should begin to experience the CO<sub>2</sub> gas entering the (1) REEDTower CO<sub>2</sub> AltAir Case as the regular oxygenated air is expended from sides of the (3) REEDTower CO<sub>2</sub> AltAir Lid.

Slowly and slightly loosen without removing the (3) REEDTower CO<sub>2</sub> AltAir Lid. Hold for 2 seconds while the regular oxygenated regular air is expended from the (1) REEDTower CO<sub>2</sub> AltAir Case. Then close tightly to seal lid.

Fully close the (11) CO<sub>2</sub> Nozzle before removal.

Remove from the (7) CO<sub>2</sub> AltAir Presta Valve Stem the (11) CO<sub>2</sub> Nozzle and attached (13) CO<sub>2</sub> cartridge with (12) CO<sub>2</sub> cartridge sleeve. Do not remove the CO<sub>2</sub> cartridge on its own. When removed, open the (11) CO<sub>2</sub> Nozzle to expend any remaining gas from the (13) CO<sub>2</sub> Cartridge. Do not point (11) CO<sub>2</sub> nozzle toward yourself or any other living thing.

Tighten close the (7) AltAir Presta Valve Stem top open/close screw and replace cap.

Only after the (13) CO<sub>2</sub> cartridge has been expended any remaining gas and returned to room temperature, remove the (12) CO<sub>2</sub> cartridge sleeve from the (13) CO<sub>2</sub> cartridge and save for reuse.

Remove the (13) CO<sub>2</sub> cartridge from the (11) CO<sub>2</sub> Nozzle and properly recycle.

### **REEDTower Vertical Case**

To open the (6) REEDTower Vertical Top Lid, lift up from one corner with index finger and then pull the next closest corner with thumb. The lid is of a flexible material and should snap off with little effort.

Lift the top side tab and insert, tip first, your saxophone or clarinet reed inside the (4) REEDTower Pressure Bound Vertical Reed Holder.

Insert the (4) REEDTower Pressure Bound Vertical Reed Holders with reeds inside into the (5) REEDTower Vertical Case. Up to 6 reeds may be used at a time.

Snap on the (6) REEDTower Vertical Top Lid one end at a time.

Rest the (5) REEDTower Vertical Case with (4) REEDTower Pressure Bound Vertical Reed Holders enclosed in a vertical stance for best results.

### **Can I place the REEDTower System in the dishwasher?**

No, cleaning via an automatic dishwasher is not recommended. Wash and rinse by hand with lukewarm warm water and gentle dish soap.

### **Reuse, repurpose, recycle**

The REEDTower Reed Preservation System is made from recyclable materials. If you no longer need or wish to use it, please don't just throw it away. Reuse, repurpose, and/or recycle the parts and help reduce waste.

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**REEDTower does not guarantee or is intended for the prevention of disease. Proper personal hygiene and sanitary practices are essential. Wash hands before handing reeds. Brush teeth before playing your instrument. Avoid food and drink for at least one hour prior to playing. Regularly clean REEDTower with soap and water.**

**View the REEDTower.com website for more information, videos, F.A.Q. page, and product policies page.**

