

THE GRAND DIVE



Our hyperbaric chambers are a
Class II medical device cleared
by the FDA requiring a
prescription.

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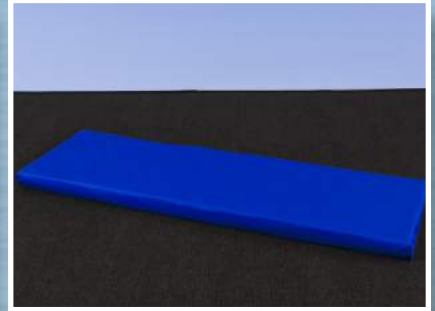
WHAT IS INCLUDED



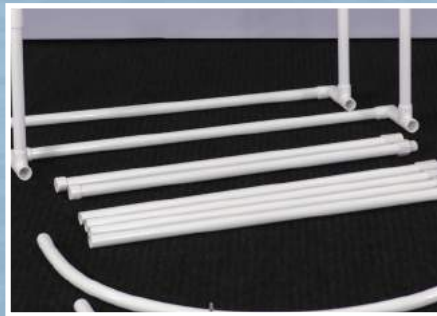
CARRY BAG



CRADLES



FOAM MAT



FRAME



COMPRESSORS



OPEN ME FIRST

FAILED CIRCUIT ALARM



Take the circuit alarm, ensure that the 9 volt battery is installed in the circuit alarm. Plug the circuit alarm into the wall socket. Don't use an outlet controlled by a light switch.

FAILED CIRCUIT ALARM



Plug the power strip into the back of circuit alarm.

FAILED CIRCUIT ALARM



Now plug each compressor into the power strip.

GETTING STARTED

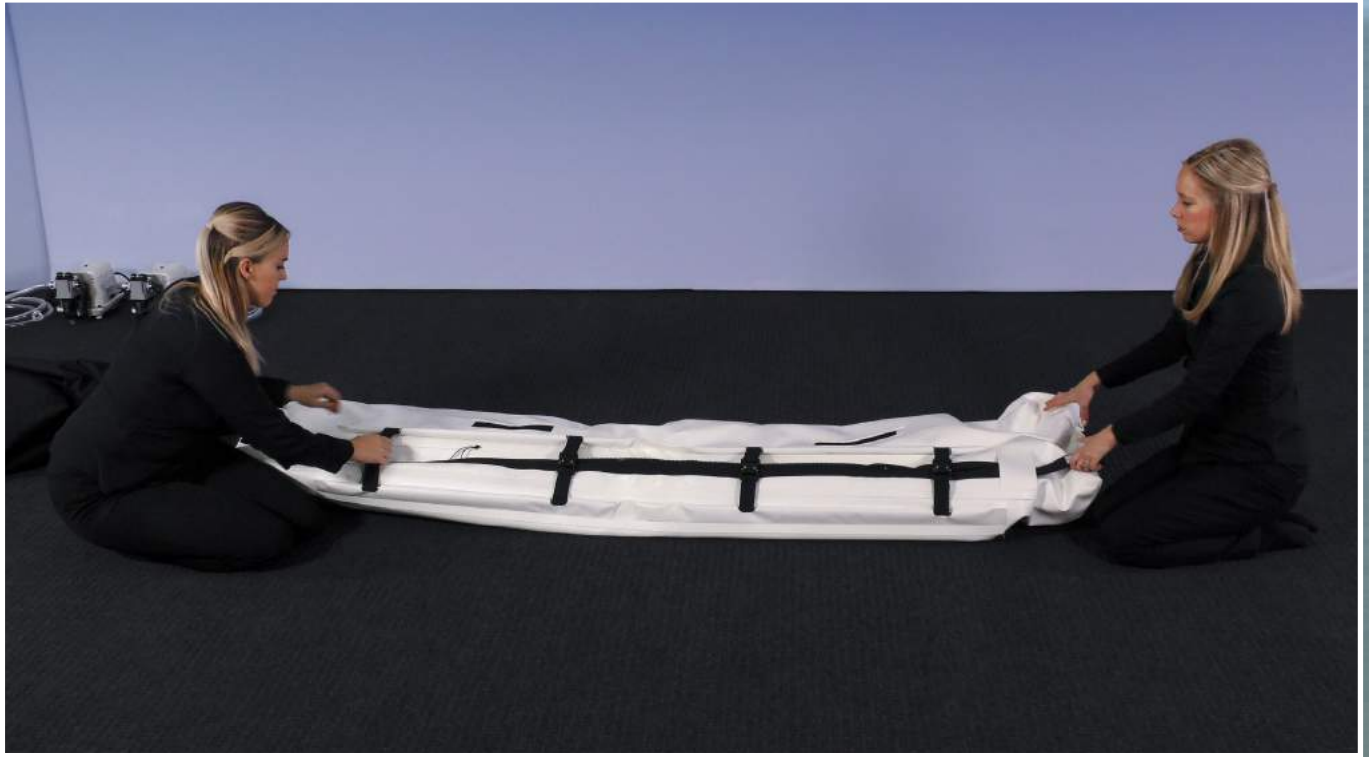


Remove the chamber from the carry bag.

[Click for video reference](#)

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GETTING STARTED



Layout the chamber so the zipper is facing up.

[Click for video reference](#)

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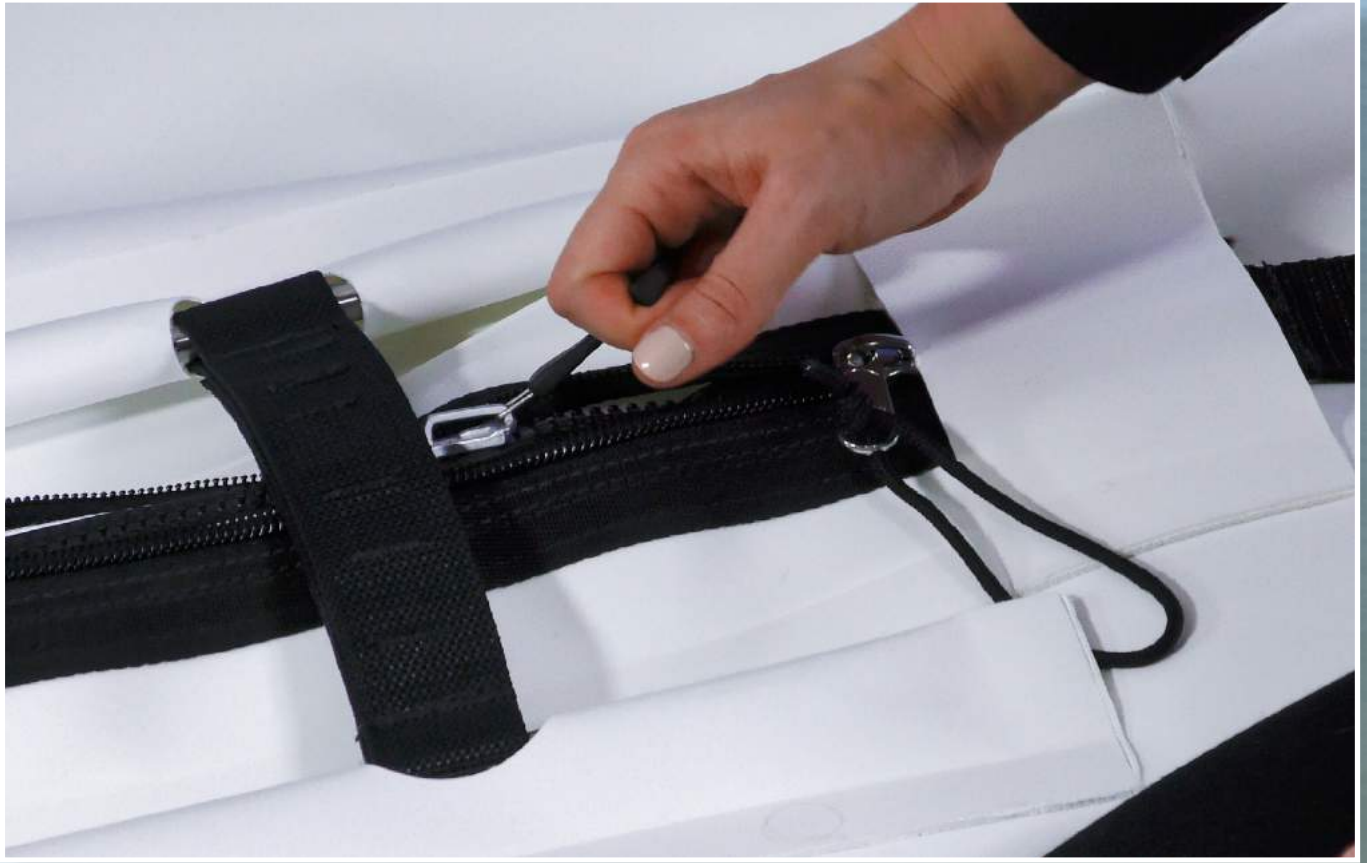
ZIPPER SYSTEM



First ensure that the buckles are buckled (*note* they will be upon delivery).

Place a small dot of silicone lubricant on the dock and about an inch down the zipper teeth to aid in zipping the internal zipper.

ZIPPER SYSTEM



Close the internal zipper, make sure the zipper is completely in the zipper dock. If the zipper is not completely in the dock, the chamber will not fully pressurize. (*see picture on next page for proper way to zip). It is very important that the zipper chains are parallel to each other and you slide the zipper pull flat along the zipper, not perpendicular to the zipper.

ZIPPER SYSTEM



Look at the two pictures above. The picture on the left has an example of a zipper that is not properly zipped, notice the gap between the zipper and the dock. The zipper on the right is zipped correctly, with the zipper fully in the dock.

It is important to zip the zippers properly, failure to zip the zipper properly could damage the zipper, requiring the chamber to be sent in for repairs.

ZIPPER SYSTEM



Next close the external zipper, ensure it is fully closed, by pulling the zipper string through the white safety strap.

INFLATING THE CHAMBER



Now that the zippers have been zipped and the buckles are closed, it is time to connect the compressors (*pictured above 2 compressors) to the chamber.

One unique feature of all Summit to Sea chambers is there are two separate compressor systems which connect to the chamber. Should one of the compressor systems fail, this safety feature allows fresh air to continue to circulate inside the chamber until you can deflate and exit the chamber. Each compressor hose has a quick connect on the end which makes it easy to click onto the chamber fill valves.

INFLATING THE CHAMBER



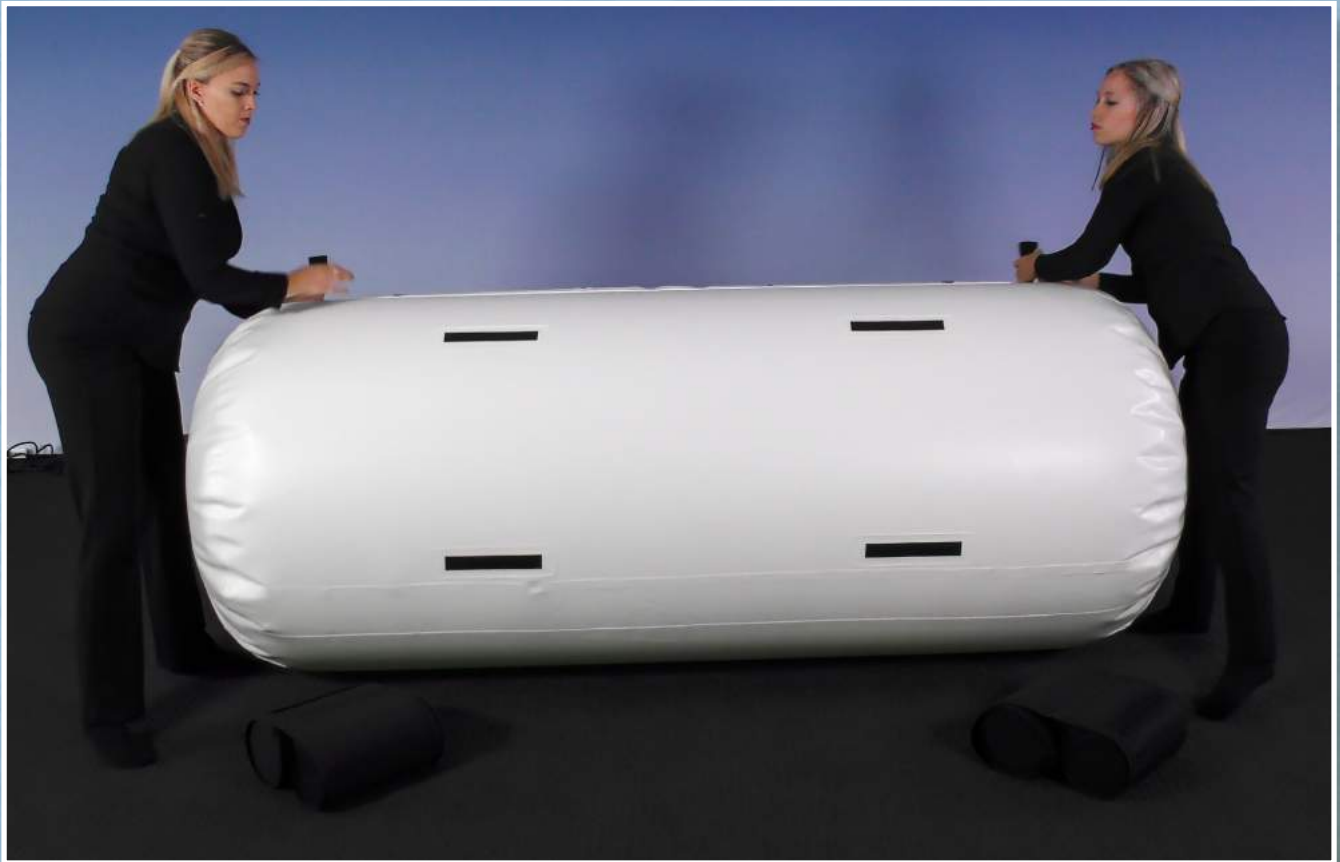
Locate the 2 fill valves on the chamber, apply a small dot of silicone lubricant on the O ring on the end of each fill valve connector. Now click the hoses onto the fill valve connectors. Once both valves are connected, make sure that the red deflation valve is in the closed position (*closed position is lining up the gray dots)

INFLATING THE CHAMBER



Now that the compressors are connected and the red deflation valve is closed, turn on the power to the compressors. The chamber will begin to inflate.

CONNECTING THE CRADLES



Now that the chamber is to shape, lift the chamber up and rotate it to access the bottom, connect the cradles to the chamber. These cradles ensure the chamber won't move during treatment.

CONNECTING THE CRADLES



Attach the cradles to the Velcro located on the bottom of the chamber.

BUILDING THE FRAME



Now it is time to build the frame. The frame includes 10 pieces total, 2 end pieces, 2 arches and 6 small side poles.

BUILDING THE FRAME



First, place both arches into the end pieces. Be sure the threaded part of the screw in the arch is facing towards the center.

[Click for video reference](#)

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BUILDING THE FRAME



Now take the two end pieces and place them at the ends of the chamber.

BUILDING THE FRAME



Take the two poles that have end caps on them. Then screw the two poles together to form one long pole. The connection only needs to be hand tight. Do not try to completely screw the threads into each other.

[Click for video reference](#)

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BUILDING THE FRAME



Now assemble the four remaining short poles to form two long poles.

BUILDING THE FRAME



Now take the two poles without end caps and insert them at the base of the end pieces.

BUILDING THE FRAME



On the arch is a screw for the pole with end caps to connect to.

[Click for video reference](#)

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BUILDING THE FRAME



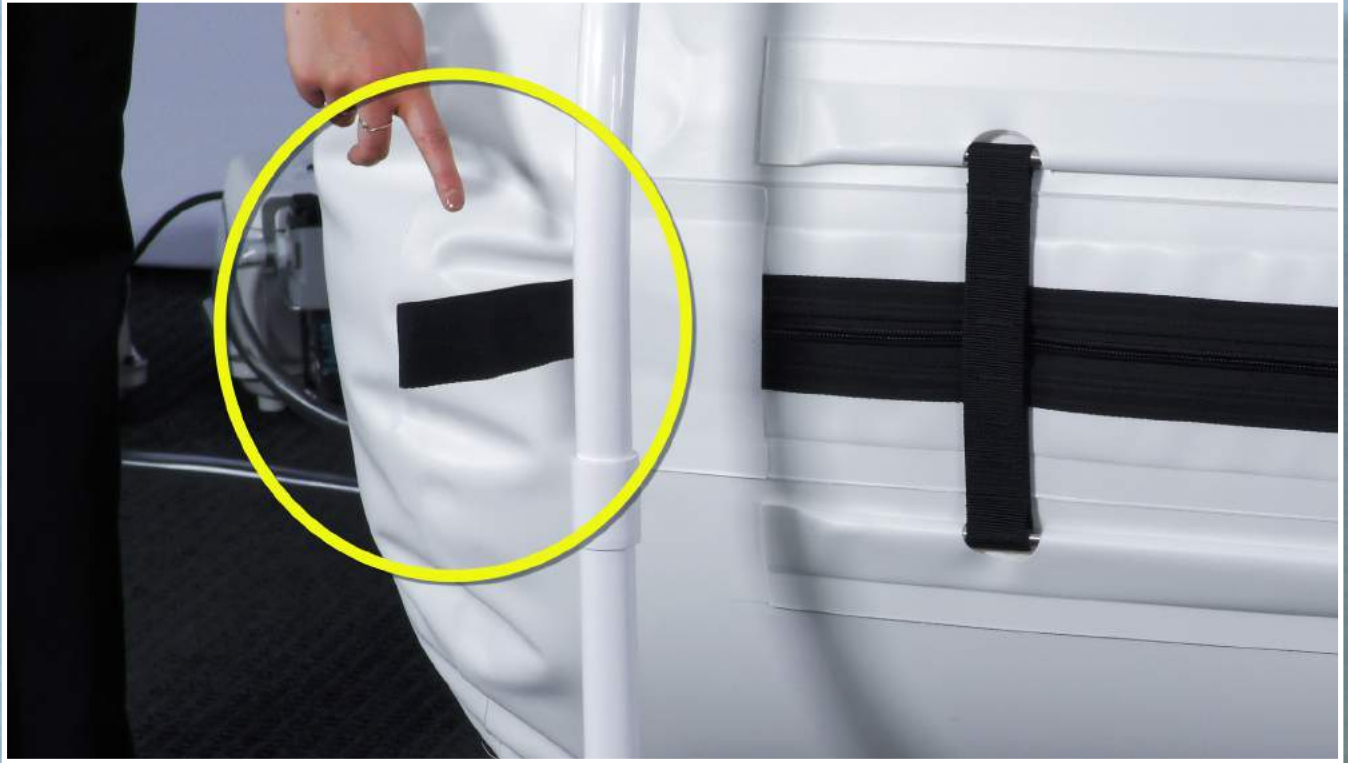
Use the included screw driver and connect the pole with end caps to the arch, by tightening the screw into the pole.

BUILDING THE FRAME



Connect the chamber to the frame by connecting Velcro loops on the chamber to the frame.

BUILDING THE FRAME



Do not connect the zipper loop to the frame. See picture above for reference.

DEFLATING THE CHAMBER



To deflate you will turn the red deflation valve to release air from the chamber. When the gauge reads zero, you can unzip the internal and external zippers. Then unbuckle the buckles by pushing the gold levers towards the opposite side.

INSERTING THE FOAM MAT



Now that the chamber is deflated and attached to the frame it is time to insert the foam mat inside.

SETUP COMPLETE



Congratulations you have successfully set up your Dive chamber. In the following pages we will discuss the operation of the chamber.

OPERATION OF CHAMBER



First turn on the power to the compressors. The person will then enter the chamber.

[Click for video reference](#)

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OPERATION OF CHAMBER



From the outside you will buckle the belts and close both zippers
(***Reminder buckle the belts before zipping the zippers**).

OPERATION OF CHAMBER



Make sure the red deflation valve is closed. Your chamber will now automatically pressurize to the factory set pressure of 1.3 ATA or 4.4 PSI. You will know your chamber is fully pressurized when you hear the air releasing from the pressure relief valves and your gauge reads in the blue.

OPERATION OF CHAMBER



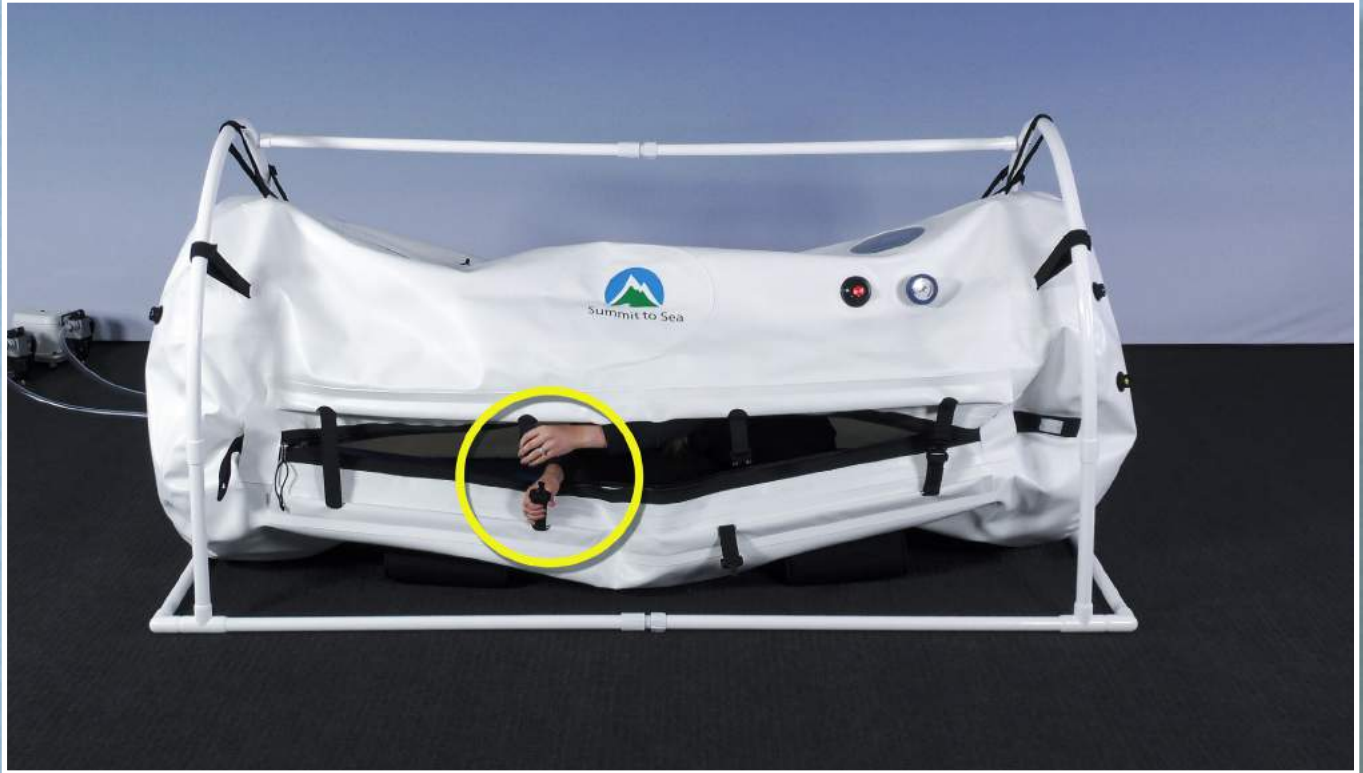
When it is time to end your treatment, turn the red deflation valve to deflate the chamber. Once the chamber sides are soft and the gauge reads zero unbuckle the belts and unzip both zippers. Now the person can exit the chamber.

INDIVIDUAL USE



For independent use do the following. First ensure that both compressors are on. Before entering connect the end buckle by the head. To easily configure the zippers for individual use have someone on the outside zip you in the chamber. Then while you are inside unzip the zipper by your head.

INDIVIDUAL USE



Once you're in the chamber, reach out and close the remaining buckles. Once all of the buckles are buckled, reach out and close the EXTERNAL zipper. When the external zipper is closed, go ahead and zip the internal zipper.

INDIVIDUAL USE



You will know your chamber is fully pressurized when you hear the air releasing from the pressure relief valves and your internal gauge reads in the blue.

INDIVIDUAL USE



When you have finished your treatment turn the inside red deflation valve to depressurize the chamber. Once you feel the sides of the chamber are soft and your internal gauge reads zero you may unzip the internal zipper. Next open the external zipper and unbuckle the two center belts. Then exit the chamber.

[Click for video reference](#)

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COMPONENTS



It is important to understand the functions of the individual components of your chamber. On the following pages we will explain what the individual components on your chamber do.

COMPONENTS



There are two pressure relief valves with blue circles. During treatment air will be released from these 2 valves. They are designed and factory calibrated to equalize the pressure at 1.3 ATA. or 4.4 PSI. There is one located at each end of the chamber.

COMPONENTS



There is a safety backup pressure relief valve with a yellow circle which is set to open at a slightly higher pressure than the blue valves. There may be a slight venting of air which is normal.

COMPONENTS



Next you will see the color-coded gauge. The needle will start at the bottom of the black area at zero. Once the chamber is fully pressurized air will be released out of the blue pressure relief valves and the needle will appear in the blue area. If the needle is anywhere within the blue area you are at full pressure. These gauges are accurate to plus or minus 5%. If the needle appears past the yellow area call your distributor.

COMPONENTS



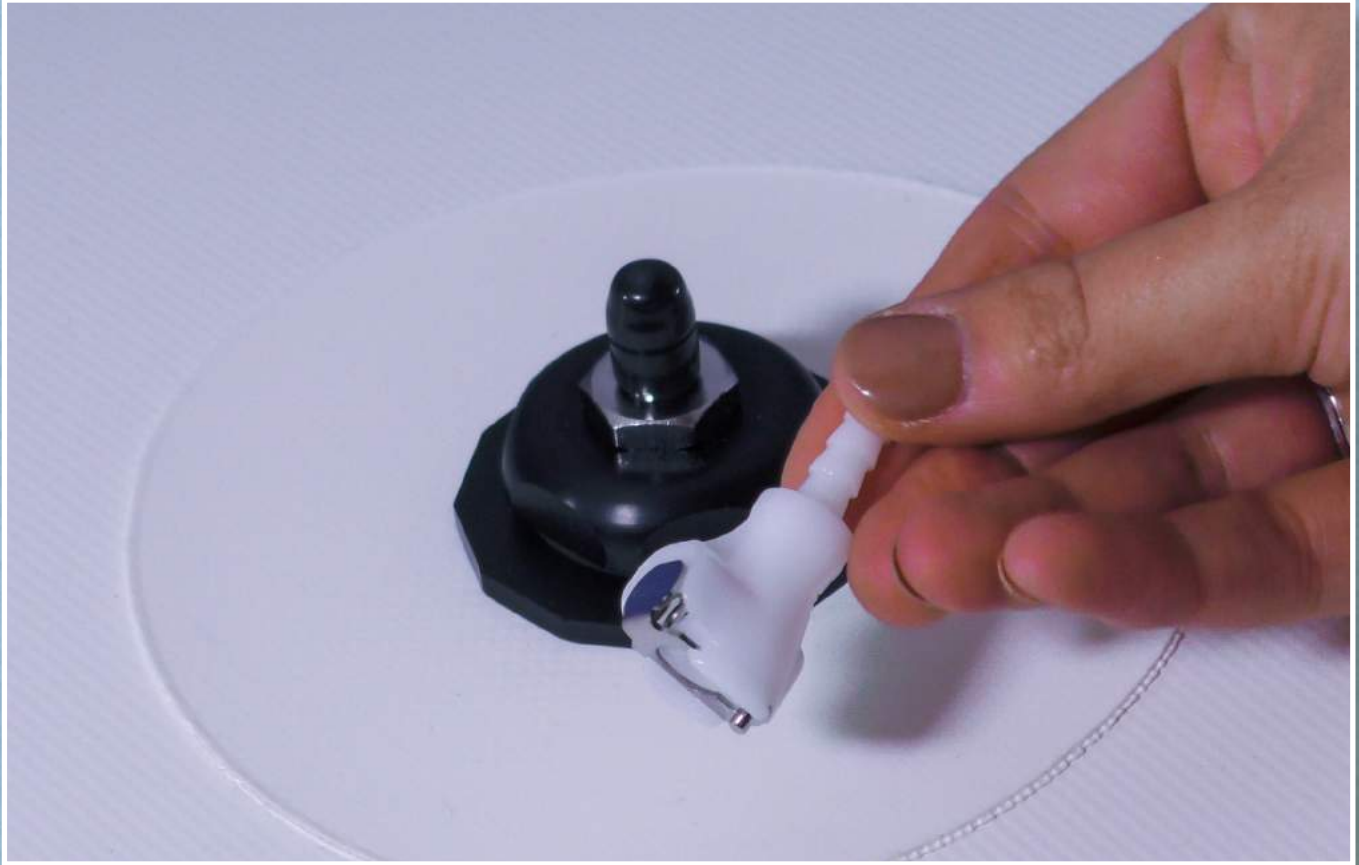
There is also an internal gauge which operates similar to the exterior gauge. The only difference is the external gauge needle moves clockwise and the internal gauge needles moves counter clockwise.

COMPONENTS



On the back of the chamber are two fill valves. This is where the compressors connect to the chamber.

COMPONENTS



To the left of the fill valves is an auxiliary port where the auxiliary valve attaches. This small auxiliary valve is located in your packet along with the zipper cleaner, zipper lubricant and thumb drive.

COMPONENTS



The red deflation valve (inside or out) is used to deflate the chamber at the end of your treatment. It is designed to turn in either direction to release air from the chamber. As you turn the red deflation valve you will notice that you have control of the speed of deflation. This valve can also be used during pressurization to customize the speed of inflation for greater comfort and to aid in the equalization of ear pressure. The person inside the chamber should never experience ear pain.

REGULATE EAR PRESSURE



As the chamber begins to inflate, you may notice added pressure on the ears. This feeling indicates the need to equalize the pressure. This feeling is similar to that of landing in an airplane. There are several ways to relieve this pressure.

First, pinch your nose, close your mouth and try gently blowing out your nose. Repeat every time you begin to feel this pressure. This technique is called the Valsalva maneuver.

Drinking water during inflation can help the pressure on your ears as well.

Yawning or opening your mouth wide will also help.

Lastly, chewing gum may help relieve this pressure.

REGULATE EAR PRESSURE



If the previous suggestions do not resolve the ear pressure, open the red deflation valve until the feeling of pressure is gone. Then close the red valve to continue to pressurize the chamber.

SAFETY

REMEMBER

Make sure all buckles are closed and both the inside and the outside zippers are completely closed every time the chamber is in use. Failure to do this may result in inability to pressurize or damage the chamber.

If the relief valves do not release air when it is at full pressure, stop your treatment and call your distributor.

It is important that the relief valves are clear of all obstructions inside and out during your treatment.

The compressors must remain on for the entire treatment. This ensures the circulation and exchange of fresh air to provide a safe and comfortable treatment.

Do not open the zippers or unbuckle the straps until the gauge reads zero.



SUPPORT

Click [here](#) for an instruction video of the Grand Dive chamber.

If you have any questions regarding your chamber please contact your distributor first.

If you have additional questions please visit our website at www.summit-to-sea.com/support and fill out the form.

If you need immediate assistance, you can call (1-877-774-3483) and choose option 3.



ACCESSORIES

Click [here](#) to go to our accessory page. There you can order a variety of accessories for your chamber including. (Link also at the bottom of our homepage.)

Maintenance programs

Zipper lubricant

Zipper cleaner

Compressor filters

Additional frames

Additional mats

Magnetic utility hooks

Auxiliary valve

Gauges

Red deflation valve muffler

Extended warranties

Cleaning supplies



CHAMBER CARE

It is recommended that the compressor filters are changed approximately every 6 months.

To learn how to change these filters go to

www.summit-to-sea.com/filters

To order these replacement filters go to

www.summit-to-sea.com/accessories



CHAMBER CARE



White Compressor Filter

To see a video on how to change the filters go to
www.summit-to-sea.com/filters

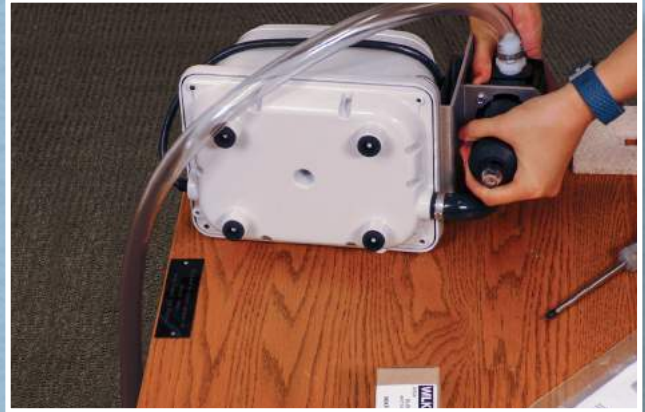
There is a filter right under the top plate of the compressor. It is recommended that you replace the filter every 6 months.

CHAMBER CARE

The .003 Micron Filter



Lay the compressor on its side



Push the black bulb up and give it a quarter turn to unlatch then pull down



Unscrew the silver filter element. Screw on the new silver filter



Put the black bulb back on pushing up and giving it a quarter turn to make sure it is securely connected.

To see a video on how to change the filters go to
www.summit-to-sea.com/filters

It is recommended that you replace the filter every 6 months.

CHAMBER CARE

ZIPPERS

The outside zipper requires very little maintenance.

A bottle of zipper cleaner lubricant has been included in your packet to use on a monthly basis.

Periodically, wipe the outside open zipper with a damp cloth.

CLEANING THE CHAMBER

There is no maintenance needed other than cleaning with a non-petroleum based household cleaner.

An anti-bacterial cloth has been included with your chamber. To order these cloths go to www.summit-to-sea.com/accessories

FITTINGS & HOSES

Regularly check the fittings and hoses for cracks or damage.

If you see any damage, call your distributor for a replacement part.

CHAMBER CARE

STORAGE

Prior to storing the chamber, ensure that it has been cleaned inside and out by using a non-petroleum based household cleaner.

Carefully fold the chamber ensuring all gauges and fittings are protected with bubble wrap or a similar material. ([How to Fold](#))

Place the chamber in the carry case and store in a dry area between 40 and 80 degrees.

Upon first reuse, run the chamber for several hours to purge the chamber from any odors that may have collected during storage.

WARRANTY

Summit to Sea warrants our products and accessories against defect for two years from purchase.

The warranty covers parts and labor to repair the Summit to Sea system.

Summit to Sea, at our option and sole discretion, will repair or replace the warranty item.

The warranty does not cover damage as a result of misuse or modification.

Shipping to and from Summit to Sea is the customer's responsibility.

Summit to Sea has always and will continue to cover all components on our chambers — including zipper, windows, seams, valves, hoses... in other words, if it came from Summit to Sea we will stand behind our product.