

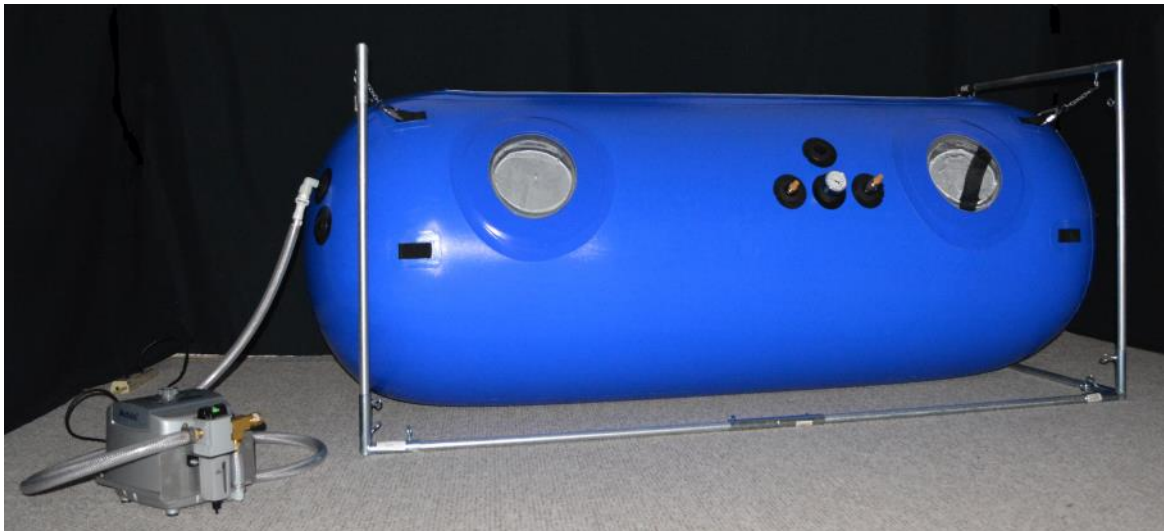
CLASS 4

V.2.1

Hyperbaric Chamber

Operations

Manual



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This manual will provide you with instructions for setting up and operating your new Seal Hyperbaric Chamber from Newtowne Hyperbarics. Should you have any questions please contact our factory representative Tuesday - Friday, 9:30 am to 5:30 pm

Newtowne Hyperbarics
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GETTING STARTED

PACKAGE CONTENTS

Standard and optional equipment includes the following items. Please check the packing list included with your order for items specific to your order.

BOX 1 - Chamber and components

- Chamber with standard components: (see pgs. 4 &5)
- Operations Manual - packing list, invoice, and final evaluation form included in same package.
- Frame Connectors (4 -3way, 4 - elbows, 2- straight, 4 Quicklink Triangles with chain)
Note: **If** your order included an interior frame the installation instructions, including an inventory for the frame, are provided as a supplement at the end of this manual
- Mattress (3 foam pieces) and Cover
- 10ft. Breathable Air Hose
- Concentrator kit: 2 O2 masks, O2 supply hose & O2 valve (optional)

BOX 2 - Air Compressor

BOX 3 - Frame Poles (12)

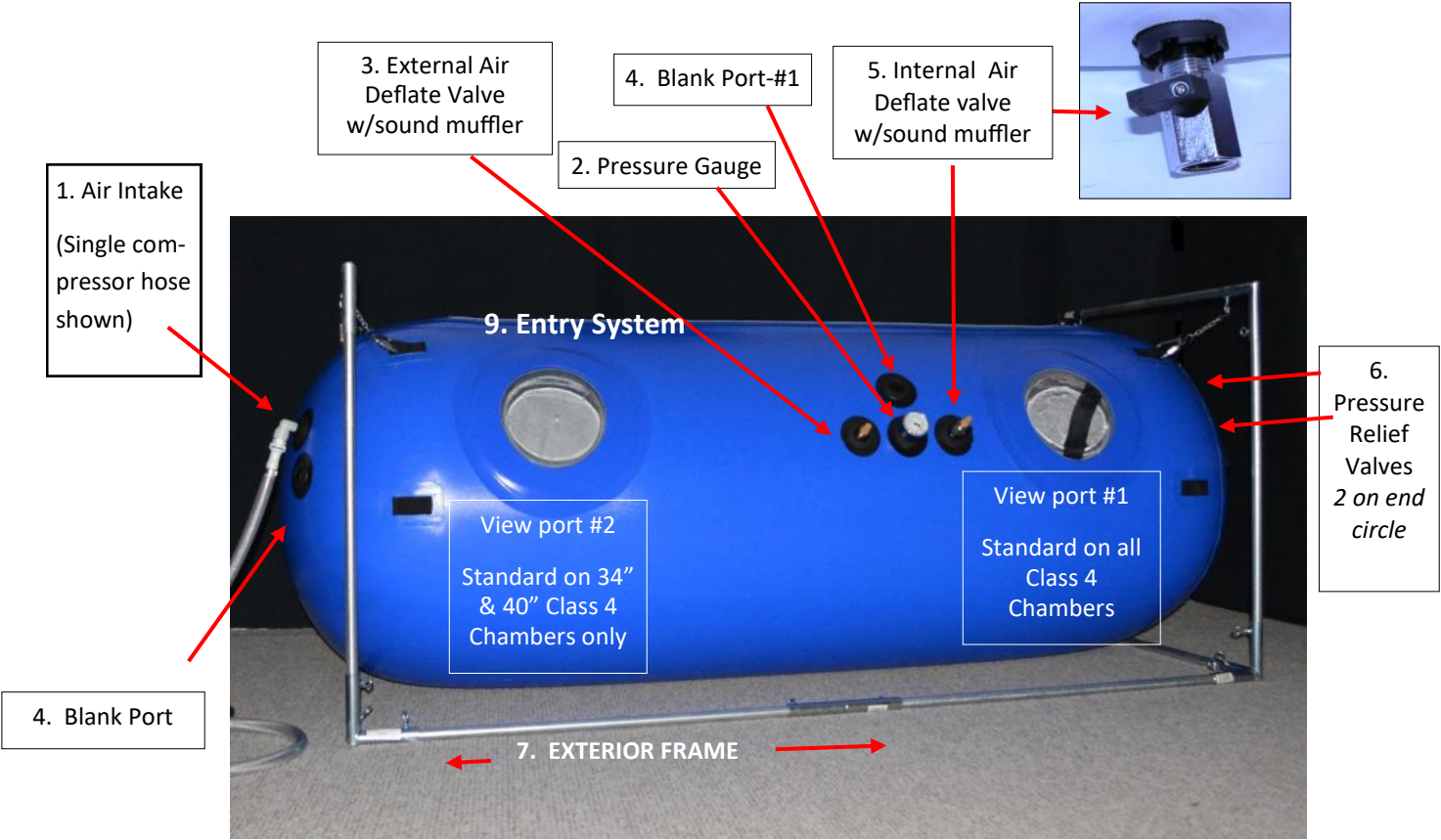
BOX 4 - Oxygen Concentrator (optional): Oxygen Concentrator will ship directly from AirSep within 1 week if purchased; Rental unit will ship from Newtowne Hyperbarics with other items above.

STEPS FOR ASSEMBLY AND OPERATION

The following list outlines the order in which you should assemble and operate your chamber. Details for each step are included in this manual. **Please read the entire manual before beginning assembly and operation of your chamber. Please follow all steps in the given order.**

1. Review pages titled "Chamber Components" to become familiar with the chamber.
2. Prepare the Compressor
3. Assemble Frame & Prepare the Chamber for Hanging
4. Connect the Compressor
5. Trial Operation: Pressurize to connect chamber to frame & check chain length
6. Install Oxygen Valve and Connect the Oxygen Concentrator
7. Assemble and Install Mattress
8. Preparing the Occupant
9. Using the Internal and External Air Deflate Valves: controlling pressure and cooling
10. Operation with Occupant: Procedure Guide

CHAMBER COMPONENTS



- PERIPHERAL EQUIPMENT
- ◆ AIR Compressor
 - ◆ 10 foot air hose

- ACCESSORIES
- ◆ FRAME
 - ◆ MATTRESS

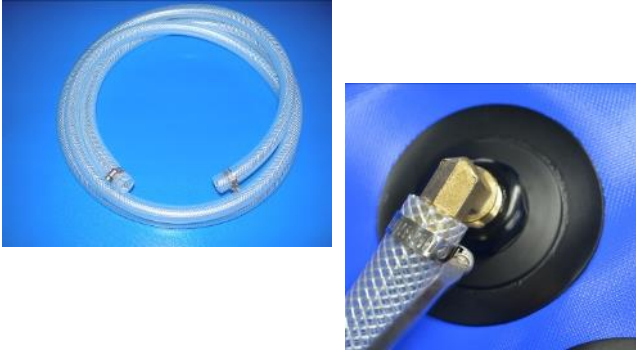
- OPTIONAL ACCESSORIES
- ◆ OXYGEN VALVE KIT
 - ◆ OXYGEN CONCENTRATOR

CHAMBER DIAMETER	CHAMBER LENGTH	APPROXIMATE CHAMBER WEIGHT	# Top Windows	COMPRESSOR **
27 INCHES	92 INCHES	19 Lbs.	1	HK 80
34 INCHES	95 INCHES	23 LBS	2	HK 120
40 INCHES	108 INCHES	31 LBS	2	HK 120

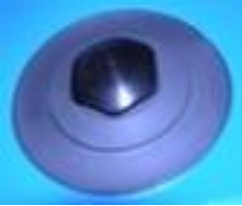
** For compressor or oxygen concentrator specifications please refer to the manufacturer’s manual.

CHAMBER COMPONENTS

1. Air Intake and Hose



4. Blank Ports (2)



Your chamber comes standard with two blank ports for adding accessories. If you are using an oxygen concentrator, you will use one of these blank ports to install the valve in your Oxygen Concentrator Kit.

2. Pressure Gauge



The pressure gauge reads the pressure inside the chamber. Your gauge should read between 4psi and 4.5 psi at all times.

6. Pressure Relief Valves (2)



Your chamber comes standard with two pressure relief valves. These valves have been pre-set at the factory to operate between 4 and 4.4 psig.

3 & 5. External and Internal Air Deflate Valves with Exterior Sound Mufflers

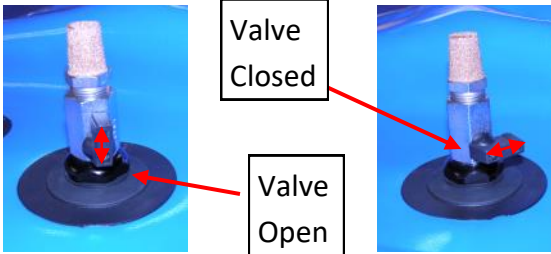


The deflate valves can be manipulated to control the rate of decompression. Partially open the valve to slow your rate and close it for standard operation



8. Exterior Frame

Valve Handle Positions



8. Air Compressor



The compressors **do not** have an on/off switch and operate by plugging the power cord into a 120 volt., 60mz, 1phase, grounded receptacle — Standard Home Outlet)

CHAMBER COMPONENTS

#9 Entry System

The Class-4 entry system has a triple zipper configuration:
ALL 3 ZIPPERS MUST BE FULLY CLOSED DURING OPERATION

EXTERIOR BLUE COIL ZIP

interior and exterior blue zippers are used for strength and safety

AIR TIGHT ZIPPER - BLACK

This is the critical zipper and must be fully closed at the end to reach and maintain 4psi within your chamber

INTERIOR BLUE COIL ZIP



PLEASE REVIEW “OPENING AND CLOSING YOUR ZIPPER” ON THE NEXT PAGE. ZIPPER OPERATION IS CRITICAL TO CHAMBER OPERATION AND LONGEVITY.

Components not pictured on previous page:



Oxygen Kit: 1mask, 1 canula, oxygen tube, oxygen valve



Mattress Foam: 3 Pieces / Mattress Cover
Standard with C4-34/ C4-34 Mil/C4-40



Chamber Mat—Standard with C4-27
Upgrade to 4" curved mat: \$275



INTERNAL GAUGE

To be installed by customer

- Standard on 34", 40" and Walk In chambers
- 27" comes with the external gauge. Internal gauge available for \$150.

CHAMBER COMPONENTS : #9 Entry System

OPENING AND CLOSING YOUR ZIPPER:

You will notice a “pucker” in the zipper when zipping from the outside - this helps the zipper withstand the pressure and is intentional. However, the “pucker” can make zipping difficult when you get to the end.

At the end of the Black Airtight zipper is an end stop in a horse shoe configuration. (figure 1) The zipper tab must be pushed to the end of that horse shoe. (figure 2) Note that you will have to apply moderate pressure for this to occur (figure 3).

Do Not force the tab at the end - over time this will compromise the backing of the zipper.

These zippers ARE NOT self aligning. Open and close the zipper with an even force along the line of the zipper. Jerking and pulling to one side or the other may cause the zipper teeth to misalign.

The greatest potential for damage is foreign objects which may partially or wholly impede correct alignment of the zipper teeth and not ensuring that both halves of the zipper are reasonably lined up.

HINT: When you get to the end of the zipper use your thumb to push the zipper tab fully against the horseshoe at the end of the zipper



1



2



3



DO NOT ALLOW HANDLES TO RUB/GRIND AGAINST THE TEETH OF THE ADJACENT ZIPPERS. THIS MAY BREAK OR MISALIGN THE TEETH OF THE ZIPPERS



ALWAYS ENSURE THE ZIPPERS AND HANDLES ARE FREE FROM FOREIGN OBJECTS WHEN ZIPPING

The zippers used on this chamber are susceptible to damage due to misuse or abuse. ALL zippers are inspected before, during, and after installation to ensure proper function. *Proper function should be verified by the end user upon receipt and any suspected defect or malfunction be immediately reported (within 7 days of receipt).* It will be assumed that any damage to the zippers was caused by the end user or operator and effectively not covered under warranty.

CHAMBER ASSEMBLY AND OPERATION

Prepare the Compressor

◆ Prepare the Compressor for use:

- You will need the following items for this step:



Compressor (s) with filter

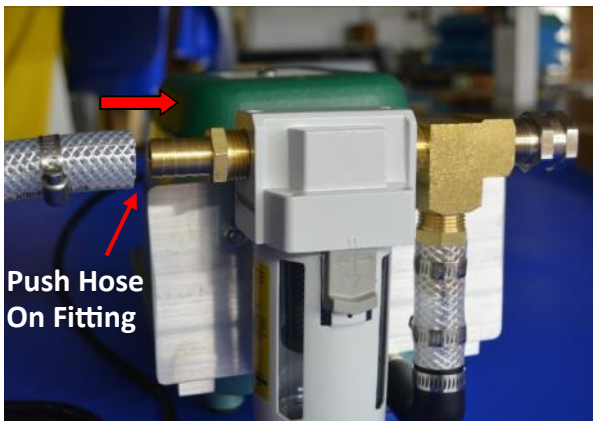


Air Hose



Flathead
screw driver
OR
5/16" nut
driver to
tighten
clamp

- **Assembling the Compressor**



- For DUAL compressors, set up each compressor with its own air hose
- Locate compressor(s) within 4 to 6 feet of chamber insuring slack in air hose.

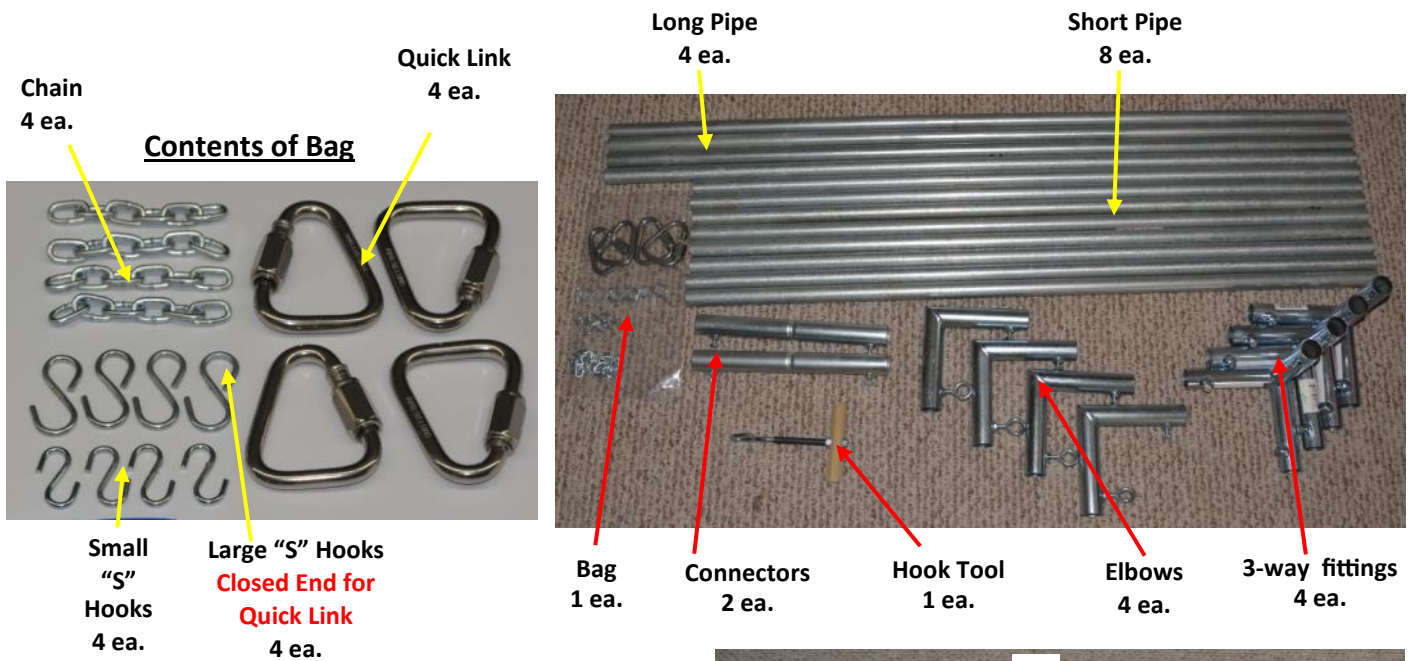
CAUTION!

The compressor(s) must be plugged in and running with air hose connected during the entire session to prevent CO₂ build-up inside the chamber.

If a power outage occurs, OR air hose becomes disconnected during treatment, depressurize and exit the chamber.

CHAMBER ASSEMBLY AND OPERATION

Exterior Frame Assembly



Take four short poles and their fittings and arrange as depicted at right.

Fully insert bottom pole #1 into both 3-way fittings and securely tighten the nuts. Fully insert top pole #2 into the elbows and securely tighten the fasteners.

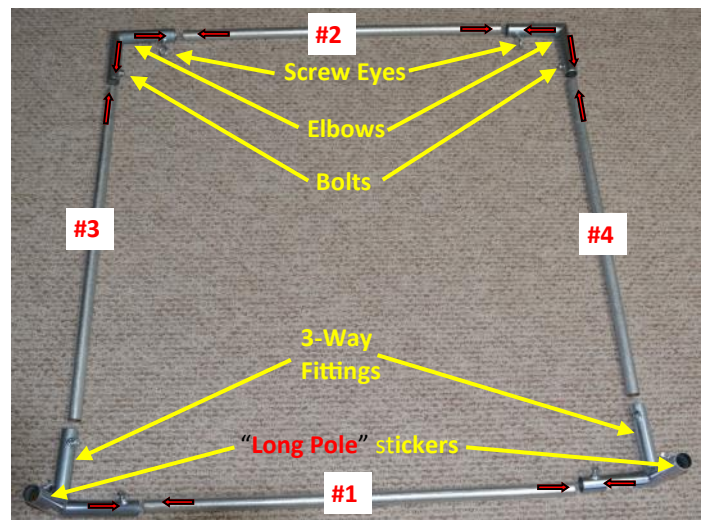
Fully insert side poles #3 & #4 into the top elbows securely tighten the nuts.

Screw eyes on the elbows point down from top. The bolts face inside.

"Long Pole" stickers indicate fitting ends reserved for "Floor" or ground poles.

Insert side poles #3 & #4 into the bottom 3-way fittings fully and securely tighten the nuts as indicated at right.

Repeat the same assembly procedure for the other end.

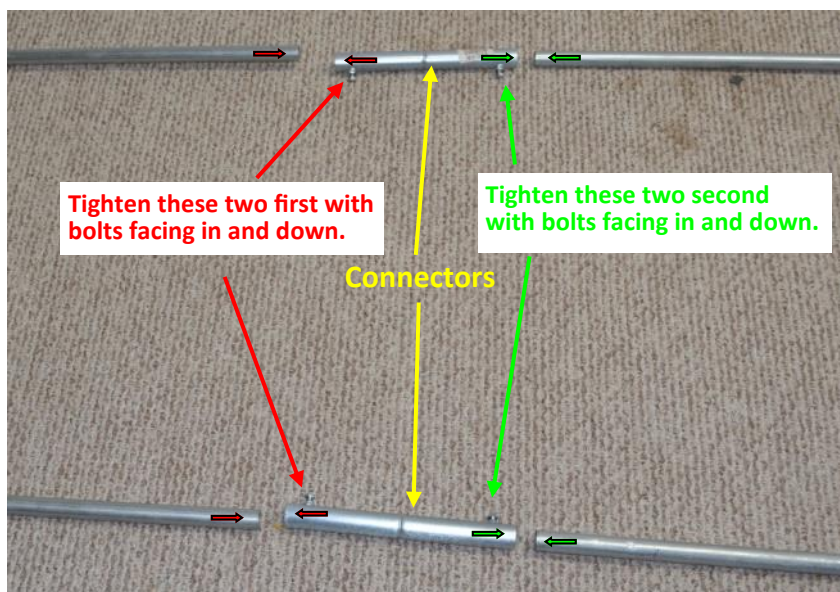


CHAMBER ASSEMBLY AND OPERATION

Exterior Frame Assembly

Fully insert 2 long poles into the 3-way fittings as pictured (right) and securely tighten.

Repeat for the other end.



Insert both connectors fully into the same end, as indicated in red and securely tighten. Repeat the process for the other end as indicated in green.

Fasteners should face inside and down.

Assembled External Frame



CHAMBER ASSEMBLY AND OPERATION

Preparing the Chamber for Hanging

- Position the frame on floor or platform at least 3 feet away from heat or open flame. The chamber can also be used without the frame on top of a bed.
- The chamber should be set up in a cool location: pressure changes will cause the temperature in your chamber to increase approximately 5-10 degrees Fahrenheit during treatment. If you feel you could benefit from a cooling system with your chamber please contact the factory for recommended models.
- Remove Chamber from Packaging - pinch and pull window covers to remove.
- Lay Out Chamber on top of assembled frame .

Locking Nut

Unscrew the locking nut to open the quick link. Insert quick link into webbing loop and turn through.



Install the "S" hook for the chain onto the quick link and close locking nut by turning counterclockwise..

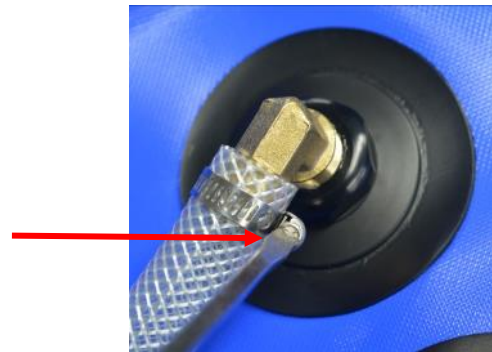
CHAMBER ASSEMBLY AND OPERATION



Chamber with quick links and chains ready. The unit is ready to inflate so chains can be installed.

- Connect air hose(s) to chamber
COMPRESSOR(S) SHOULD BE UNPLUGGED WHEN CONNECTING HOSES.

- Attach air hose to intake valve Tighten hose clamp.



CHAMBER ASSEMBLY AND OPERATION

Trial Pressurizaion - NO OCCUPANT

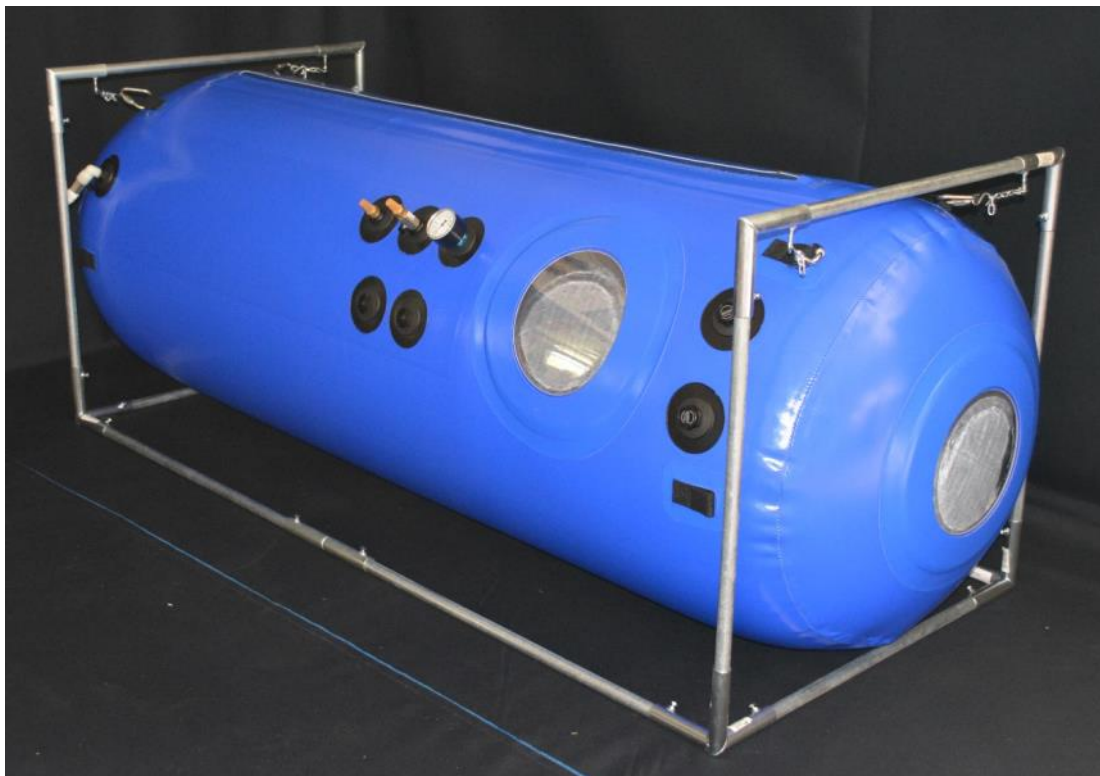
⇒ **Your chamber is shipped ready to inflate. You should have the air compressor connected to the chamber via the air hose with the quick connect. - DO NOT INSTALL THE MATTRESS OR THE OXYGEN CONCENTRATOR UNTIL TRIAL PRESSURIZATION HAS BEEN COMPLETED.**

1. Turn on the compressor by plugging it into a standard outlet.
2. Your chamber will take 10 to 20 minutes to inflate to full pressure from flat.
 - When the chamber has reached full pressure you will feel and hear air being released from at least one the pressure relief valves. (round flat valves on the end of the chamber)
 - Two relief valves are installed in the chamber as a redundant safety measure and may begin releasing air at slightly different pressures. *There is no need for concern* If only one valve is releasing air.
 - As the chamber begins to become rigid you will want to *watch the pressure gauge* to ensure it was not damaged during shipping. Your gauge should read between 4.0 and 5.0 at full pressure (ie. air is being released by the pressure relief valves).
 - **IF YOUR GAUGE READS HIGHER THAN 5.0 PSI AND NO AIR IS BEING RELEASED FROM THE PRESSURE RELIEF VALVES -- TURN OFF THE COMPRESSOR AND CALL THE FACTORY OR YOUR DISTRIBUTOR FOR ASSISTANCE.**
 - If your chamber has not fully pressurized within 20 minutes make sure that your internal and external deflate valves are closed (see page 5) and that all 3 zippers are fully closed (see page 6-7).

⇒ **Once the chamber has fully pressurized continue with attaching the chamber to the frame on the next page.**

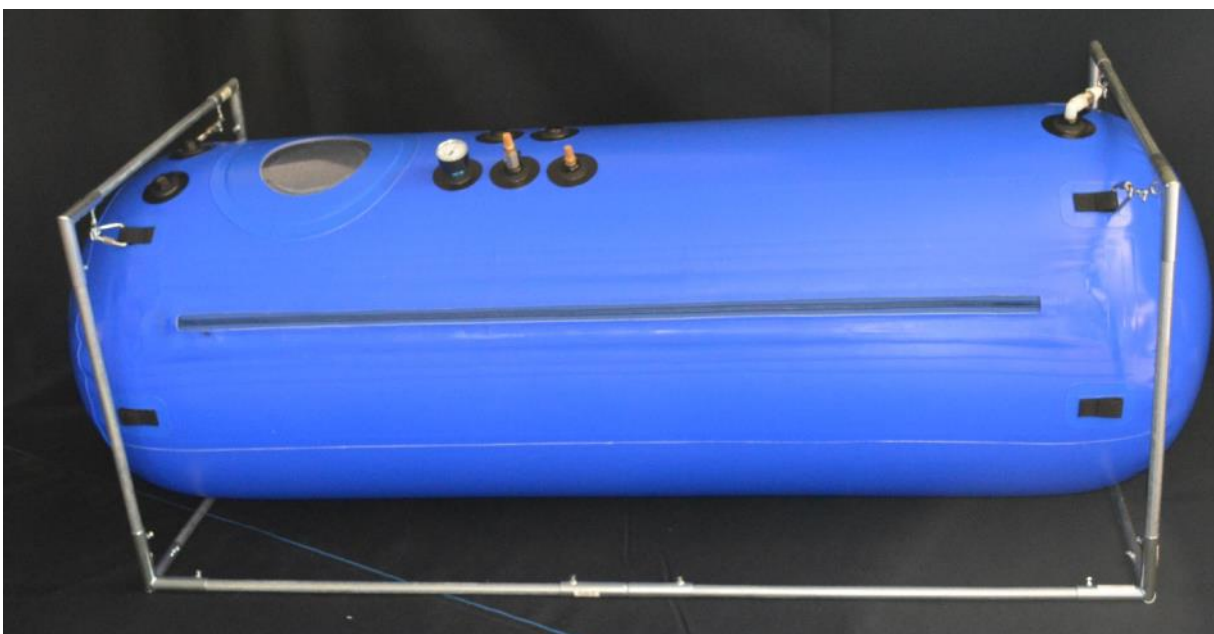
CHAMBER ASSEMBLY AND OPERATION

Positioning your Chamber: Top or Side Entry



The Class 4 Chamber can be positioned as a top entry (pictured above) or side entry (pictured below). Use the appropriate hangers for your preferred position.

Some of our recent chambers have an extra set of hangers which will allow the zipper to be at floor level. Call the factory if you require more info 410-575-4220.



NOTE: Instructions on the following pages show the chamber as a side entry.

CHAMBER ASSEMBLY AND OPERATION

Attach Chamber to Frame and Adjust Chains



Adjust chain length of the inflated chamber to minimize side to side **rotation**.

If chamber swings side to side above the floor it is elevated too high and must be lowered. This will prevent excessive stress on the hang tabs which could compromise your chamber.



Securing the chain. (You will need a pair of plyers for this process)

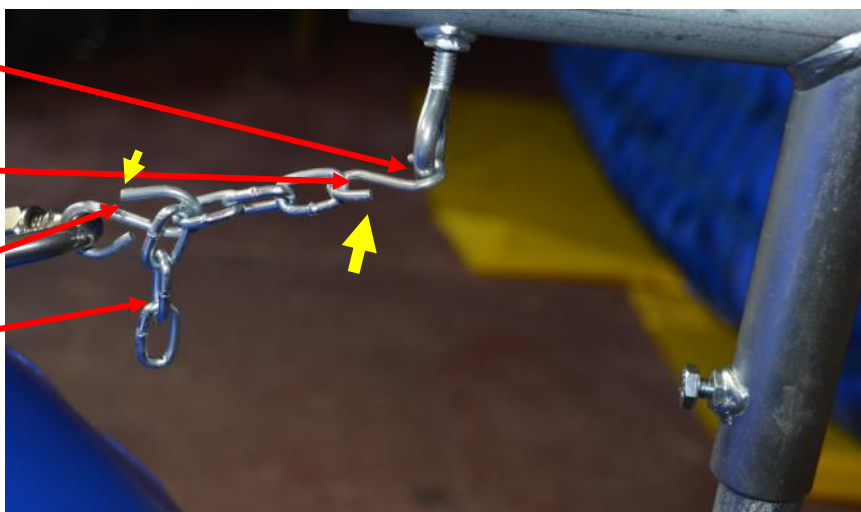
The small "S" hook end attached to screw eye is open for ease in removal and replacement.

Close small "S" hook to secure to last link of chain.

Close large "S" hook to secure to last link of chain.

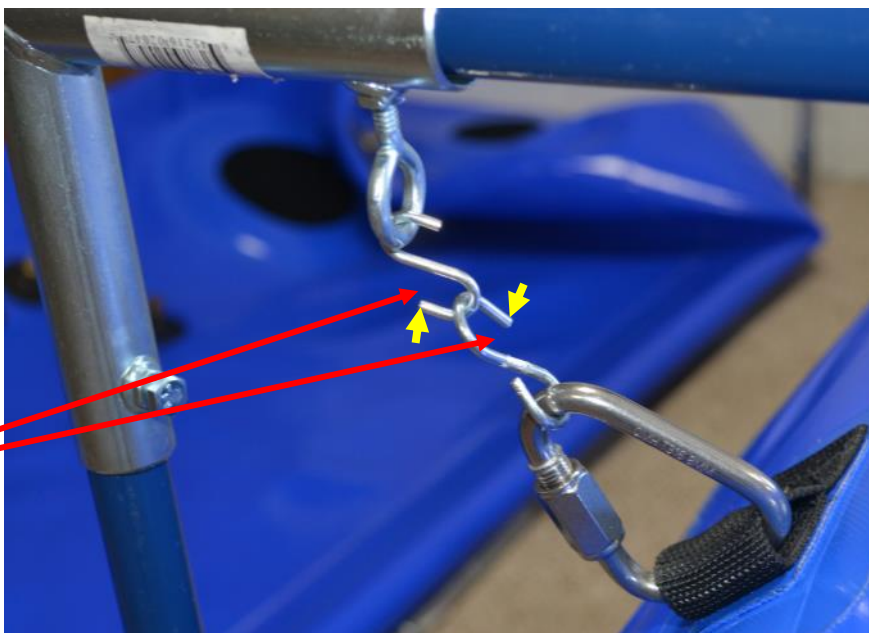
Extra chain links on quick link end.

Chain lengths should be close to the same on both sides.



Some chambers may not require the chain for proper positioning.

Close "S" hooks at arrows.



CHAMBER ASSEMBLY AND OPERATION

Deflating and Detaching Chamber From Frame and Storage

1. Open the external air deflate valve to release air from the chamber

2. When the ends begin to show deep creases the zippers may be opened



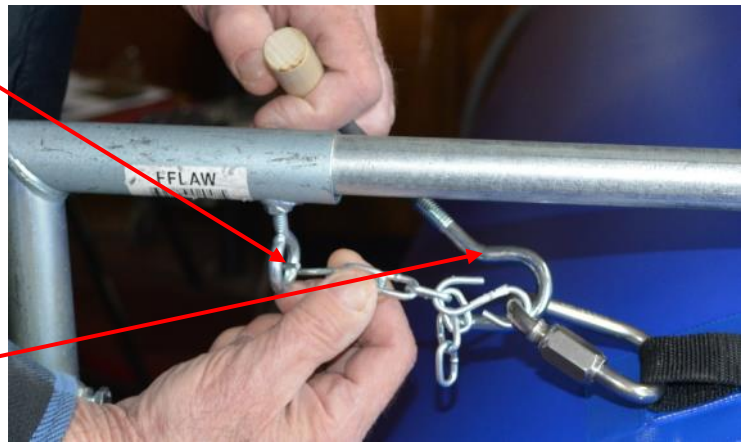
Detaching Chamber from Frame for Transport:

Hook Tool



Remove the four small "S" hooks from the frame screw eyes .

The **hook tool** can be used to pull on the quick link to slack the chain for easy removal.



Detached chamber

To reattach chamber to frame:

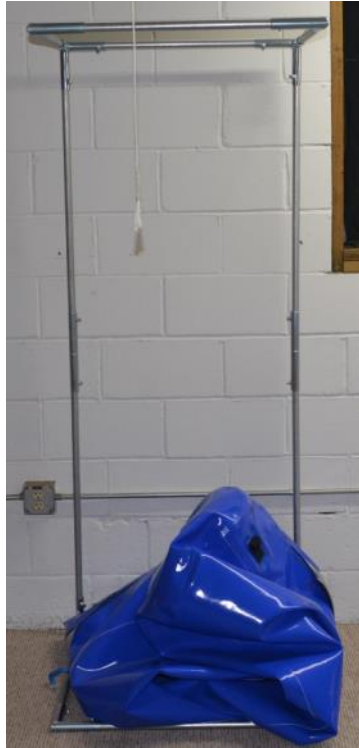
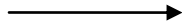
Attach the small "S" hooks to their corresponding screw eyes on the frame ends. Use the hook tool to pull the quick link when attaching the small "S" hook.



CHAMBER ASSEMBLY AND OPERATION

Mattress Instillation and Storage

Chamber installed on frame and ready for use.
(side entry shown)



⇒ **Storage Hint:**

Frame can stand on end with a folded chamber to conserve space between treatments.

Mattress Installation

There will be 3 rectangular shaped blue foam pieces with your shipment. Lay the mattress cover out with the zipper up. Insert the foam pieces into the cover -- it is easiest to insert the two ends first and then the center piece last. Simply slide the mattress into position such that it rests on the bottom of the chamber.



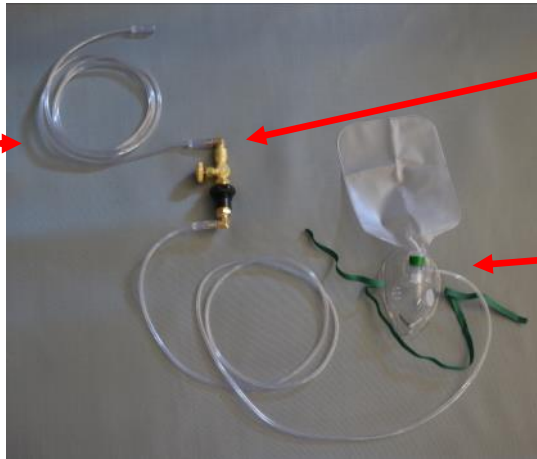
CHAMBER ASSEMBLY AND OPERATION

Oxygen Concentrator Installation - optional

If you did not purchase an oxygen concentrator or an O2 Kit please proceed to the next section.

◆ O2 Kit Inventory

Air Hose:
installs between chamber and concentrator



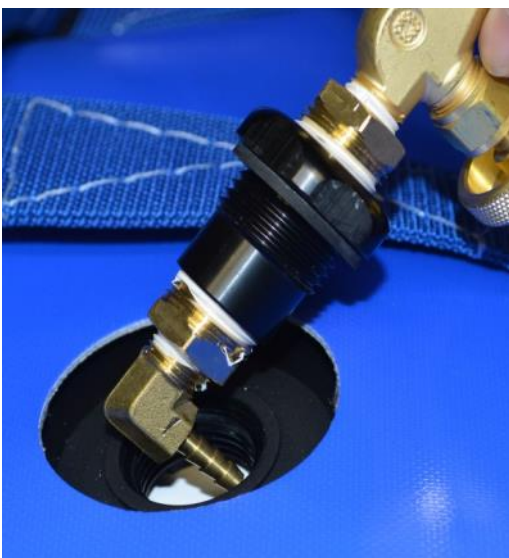
Valve: installs on chamber

Mask with hose
(2 ea)

◆ Install valve in chamber


1. Unscrew one of the blank plugs from the port in the chamber by turning counter clockwise.


Note: You will need to use pliers or an adjustable wrench to remove. Threads are all metal.



2. Insert the O2 valve in the port as shown (right).

Secure the valve in the chamber by turning clockwise. Gently tighten with a wrench or pair of pliers.

To Turn **Valve ON**: Turn handle counter clockwise 

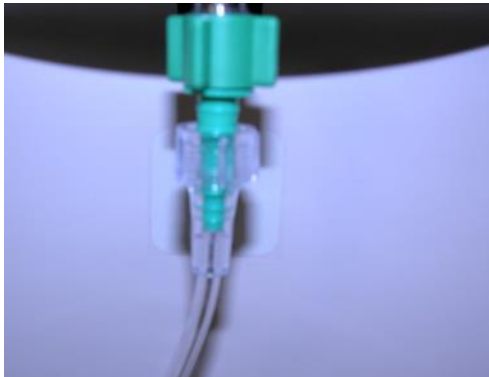
To Turn **Valve OFF**: Turn the handle clockwise. 

CHAMBER ASSEMBLY AND OPERATION

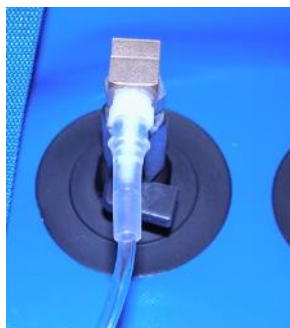
Oxygen Concentrator Installation - optional

◆ Air Hose Assembly

1. Hand Screw the hose coupling onto the oxygen concentrator:
(the coupling should be in the same box as the concentrator)



2. Attach one end of the oxygen tube to the coupling as shown. If one end is larger, connect the larger end to the coupling.



3. Attach the other end of the air hose to the O2 valve in the chamber as shown



Oxygen mask hose.

4. Connect mask hose to inside of chamber.

OXYGEN MASK SHOULD ALWAYS BE WORN WHEN CONCENTRATOR IS IN USE!

OXYGEN FLOW METER (LPM) SHOULD BE SET BETWEEN 7 AND 9 LPM

CHAMBER ASSEMBLY AND OPERATION

Installing the Internal Gauge

INTERNAL GAUGE BOX

INTERNAL GAUGE



INTERNAL GAUGE
ADAPTER WITH VENT
CAP

1. Choose the Blank Cap on the chamber where you would like to place your internal gauge. You will find one in the valve array in the center of the chamber. Others are located on the end of the chamber.
2. Use a wrench or pair of plyers to remove the blank cap by turning counter clock wise (left).



3. Install the ADAPTER into the port by screwing clock wise (right) - TIGHTEN WITH WRENCH OR PLYERS



4. On the inside of the chamber install the internal gauge by screwing the gauge into the back side of the adapter with the vent.

NOTE: YOU WILL NEED TO SECURE THE ADAPTER ON THE OUTSIDE OF THE CHAMBER WHILE INSTALLING THE GAUGE SO YOU DON'T UNSCREW IT FROM THE PORT DURING THIS STEP.



CHAMBER ASSEMBLY AND OPERATION

Preparing the Occupant

Comfort

To make the hyperbaric experience more pleasant you should be as comfortable as possible. Take care of restroom needs, gather items for inside the chamber (food, water, books, blanket, pillow etc...), and dress in comfortable clothing (no sharp items such as belt buckles, jewelry, etc..) before entering the chamber for treatment. You may also want to put a lamp near the chamber for additional reading light.

Ear Squeeze

Most people experience pressurization in their ears while the chamber is pressurizing and depressurizing. **Do not wear ear plugs or hearing aids when compressing.** You can employ the following equalization procedures to alleviate Ear Squeeze:

- Yawning
- Swallowing
- Rotating the jaw / Chewing
- Valsalva technique: pinch off the nostrils and blow gently through your nasal cavity until the pressure is equalized.
- *The rate of pressurization can be controlled using the Air Deflate Valve. Open the Valve slightly until ears are comfortable - close the valve to continue pressurizing.*

Lung Squeeze

Lung (thoracic) Squeeze is easy to prevent if you **do not hold your breath during compression / decompression.** Breathe normally while inside the chamber. In the unlikely event of rapid decompression you **must exhale.**

Carbon Dioxide

While inside the hyperbaric chamber the user is in an enclosed structure. Carbon Dioxide exhaled while breathing is not a concern as long as the air compressor is running. **The air compressor must be running while the chamber is in use.** In the event of a power failure, don't panic: there will be enough oxygen in the chamber to allow time for the chamber to decompress and to be opened normally.

Caution Contradictions Of Use

- Occupants with Colds or Flu
- Occupants with blocked Eustachian tubes
- Occupants wearing any device in the ear that causes blockages in the outer ear canal
- Occupants displaying symptoms of decompression (DCS) sickness
- Occupants under the influence of alcohol
- Occupants exposed to high levels of CO₂
- Pregnancy- please consult your physician
- **Occupants who have COPD and are already oxygen dependent.**

CHAMBER ASSEMBLY AND OPERATION

Using the Air Deflate Valves: Controlling Pressure

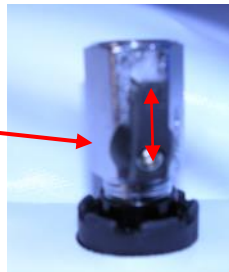
Once the chamber has reached working pressure (4 psig) excess pressure will be vented through the pressure relief valves. This process is automatic so no manual adjustment is necessary. When treatment duration has ended, open the deflate valve (internal, external or both) to deflate until material is pliable. (see below)

The internal air valve can be used by the occupant to slow down or stabilize pressurization while waiting for ear equalization.

To stop pressurization or de-pressurize

internally

Open internal air deflate
valve



To stop pressurization or de-pressurize

externally

Open external air deflate
valve



Using the Air Deflate Valves: Cooling

During treatment the temperature inside the chamber may rise 5 to 10 degrees. Air temperature is reduced when the pressure is reduced. Therefore, the air deflate valve can be opened briefly to release pressure and warm air. You may then close the valve to re-pressurize and continue treatment.

CHAMBER ASSEMBLY AND OPERATION

CHAMBER OPERATION - WITH OCCUPANT

PROCEDURE GUIDE:

- Turn on both the compressor and the concentrator (order does not matter).
- Check to make sure your internal and external air deflate valves are both closed (see p 15 for a picture of open vs. closed valve)
- Check to make sure your oxygen valve is open (you will feel air coming through the valve on the inside of the chamber)
- Enter the chamber - **If using as a top entry, do not use frame for support.**
- If you are operating the chamber by yourself you will need to close the outside blue zipper first - next, close the black zipper making sure the tab is secure at the end - then close the inside blue zipper. (If an assistant is present, the order will be reversed)
- You can control the rate of pressurization with the internal air deflate valve -- if you feel it is too fast and you need more time for your ears to adjust to the pressure you can open the valve to let some air out until you are ready to continue. Note that the more you do this the longer it will take to inflate.
- You will know that you are at top pressure when you hear the relief valves as they begin to release air (hissing noise).
- When you are ready to get out, open the air deflate valve to begin letting the air out -- **do not open the zipper until the material is no longer rigid.**

When the ends begin to show deep creases the zippers may be opened.



CHAMBER CLEANING AND MAINTENANCE

Cleaning and Disinfecting:

Cleaning:

All interior and exterior chamber surfaces can be cleaned with any mild hypoallergenic soap and water.

Procedure

1. If cleaning solution is concentrate follow manufacturer instructions.
2. With a clean sponge or cloth, wipe down surfaces with cleaning solution.
3. Wipe surfaces with clean damp towel to remove any remaining residue

Disinfecting:

All interior and exterior chamber surfaces can be cleaned with any commercially available, "hospital use only" disinfectant suitable for skin contact. However, many disinfectants can leave a lingering odor in your chamber. The simplest solution is to mix 3% Hydrogen Peroxide (this is the common household bottle found at the grocery or drug store) with distilled or purified water. The mixture should be about 1/2 Hydrogen Peroxide and 1/2 water.

Procedure:

1. If using a commercially available disinfectant follow manufacturers instructions.
2. Spray all surfaces with disinfectant.
3. Wipe surfaces with clean damp towel to remove any remaining residue.

All surfaces should be dry before use.

Warning:

Do not use solvents, alcohol, or bleaches. Do not use sealants of any type on the chamber - call the factory if you suspect a leak in the chamber.

The filter element on the air compressor should be replaced annually and may be purchase through Newtowne Hyperbarics.

CAUTION!: FDA STATEMENT and CONTRA-INDICATIONS

Sale or use of this device requires a prescription.
Federal law restricts this device for sale only by or on the order of a physician, dentist, or other qualified professional.

Frequency and Duration of Chamber Sessions
Chamber treatment schedules are established by the physician , dentist or therapist.

Environments for use

Chambers may be used as normal in inside or outdoor (tested to 0° F) environs. Chamber should operate as normal regardless of humidity or altitude.

Indications for use

Mild Hyperbaric Chambers are intended for the treatment of Acute Mountain Sickness. All other conditions are considered “off label”.

Caution—Contradictions Of Use

- Occupants with Colds or Flu
- Occupants with blocked Eustachian tubes
- Occupants wearing any device in the ear that causes blockages in the outer ear canal
- Occupants displaying symptoms of decompression (DCS) sickness
- Occupants under the influence of alcohol
- Occupants exposed to high levels of CO₂
- Pregnancy- please consult your physician
- **Occupants who have COPD and are already oxygen dependent.**

Caution

- Air Use Only—DO NOT PRESSURIZE WITH OXYGEN
- 4 psi **maximum** pressure: Relief valves are preset at the factory for your safety Do not tamper with relief valves (see diagram page 5)
- Use only clean air supplied by approved air source*
- **A constant supply of input air is necessary to prevent CO₂ buildup**
- If a power outage occurs , exit the chamber per manual instructions immediately.

* EPA TO-15, ASTM D-1945, Particulate Analysis

RETURN and WARRANTY POLICIES

Each chamber we produce goes through rigorous inspection and testing before it is shipped to you. After production each chamber is cycled from 1/2 psi to 7 psi over 100 times to test for strength and integrity. Before your unit is shipped, it is tested again with all of the components installed. At that time we also test the zippers, gauge, and relief valves. You will find all of this information in your paperwork on a form titled “ Final Test and Evaluation”.

RETURN POLICY:

New products sold by Newtowne Hyperbarics (NTH) may be returned within 15 days of purchase for a refund - rentals excluded. To qualify for a full refund the customer MUST contact NTH within 15 days of receipt of goods to get a Return Authorization Number. All items must be carefully packed, insured, and returned in original packaging. Customer assumes all responsibility for any damage and expenses incurred while shipping back to the factory. Refund may be reduced by fees incurred during sale including credit card fees and shipping costs included with sale.

WARRANTY POLICY:

Newtowne Hyperbarics warrants your product to be free from defects in material and workmanship for a period of 2 Years from the original date of purchase. If you discover a defect in a product covered by this warranty, we will repair at our option using new or refurbished components, or if repair is not possible, replace the item.

This warranty covers defects in manufacturing discovered while using the product **as recommended by the manufacturer**. The warranty does not cover loss or theft, damage caused by misuse, abuse, unauthorized modification, improper storage conditions, lightning, or natural disasters. The cost of shipping to and from the factory is the responsibility of the owner. Should the product(s) fail, your sole recourse shall be repair or replacement, as described in the preceding paragraph.

USE OF UNAUTHORIZED SEALANTS/ADHESIVES/SOLVENTS OR UNAUTHORIZED MODIFICATION WILL VOID YOUR WARRANTY—this includes duct tape, super glue, any product w/ silicone, urethane adhesives, etc...

.By installing or using the product, the user accepts all terms described herein.

Extended warranty is available and may be purchased any time within the first 2 year warranty period. Pricing as follows:

Model	Year 1	Year 2	Year 3	Year 4	YEAR 5
Class 4-27	Included	Included	\$440.00	\$540.00	\$640.00
Class 4-34	Included	Included	\$540.00	\$640.00	\$740.00
Class 4-40	Included	Included	\$640.00	\$740.00	\$840.00

HAZARD ANALYSIS

HAZARD	CONSEQUENCE	PREVENTATIVE MEASURE
Bladder seam not fully sealed.	Unsealed area of seam will pull apart and allow air to escape	Contact Manufacturer for repair
One relief valve fails to operate or is deactivated.	No effect. All relief would be focused on 2nd relief valve.	Internal valve can be activated. Either the internal or the external relief valves are individually capable of venting chamber
Both relief valves fail to operate or are deactivated	Chamber air pressure would build. Insignificant	Internal valve can be activated. Either the internal or the external relief valves are individually capable of venting chamber Compressor for the Seal is incapable of creating pressure to catastrophic failure - Contact Factory.
Puncture of Chamber Wall	Gradual loss of Air.	Contact Manufacturer for repair
Zipper Tooth Damage	Unable to close chamber or gradual loss of air at area of damage	Zipper Care is addressed in the operations manual. Contact Manufacturer for repair
Air Hose Cut or disconnected while in Use	Pressurization is halted	Occupant should exit chamber immediately and re-attach hose. If una-
Deformation or bulging during inflation	Material integrity compromised	Contact Manufacturer for repair
Outside attendant becomes incapacitated or leaves the chamber unattended	Inconsequential	Occupant has full control of functions from within the chamber.

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