L36 1.4 ATA

Mild Hyperbaric Chamber

Assembly Instructions

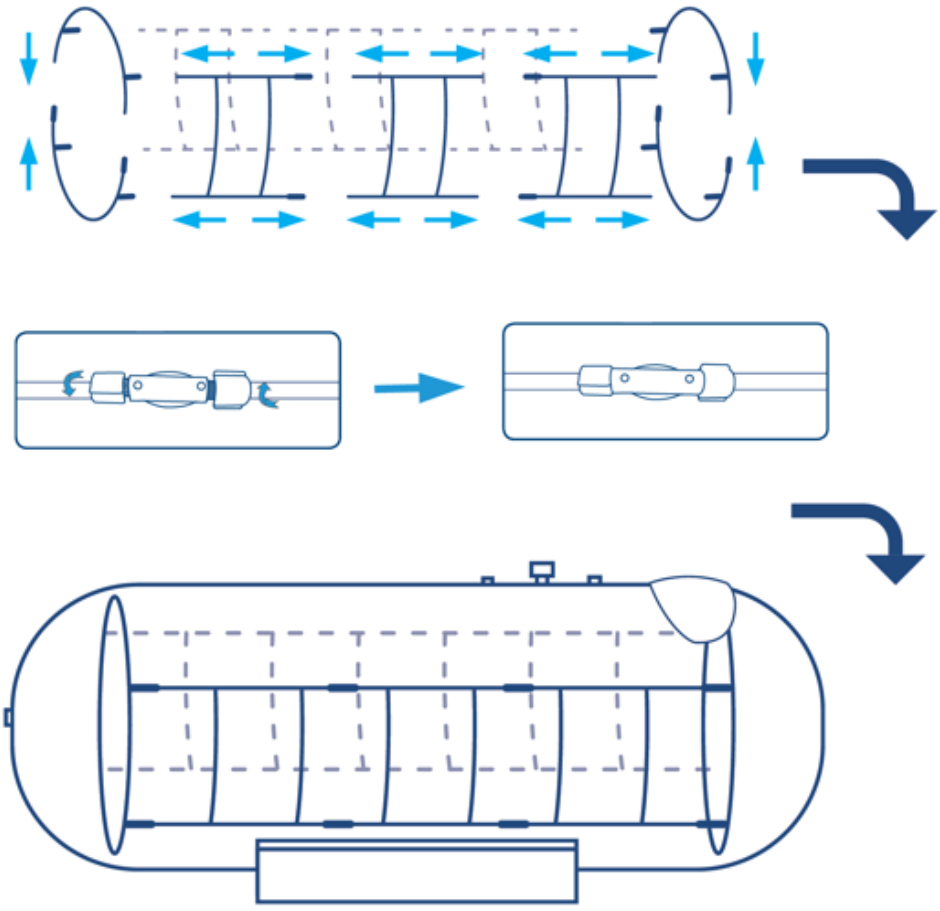


Table of contents

Preparation

- You will need 3 outlets to power the chamber and components. We advise you use a surge protector to prevent damage to the units.

- Chamber should be installed indoors in a well-ventilated room. The equipment may put off a small amount of heat. Being in a ventilated area will help keep the internal chamber temperature down.

- Assembly and use should be on a smooth surface that will not cause wear or puncture the chamber.

- When getting in the chamber we recommend you remove your shoes and sharp objects from your pockets.

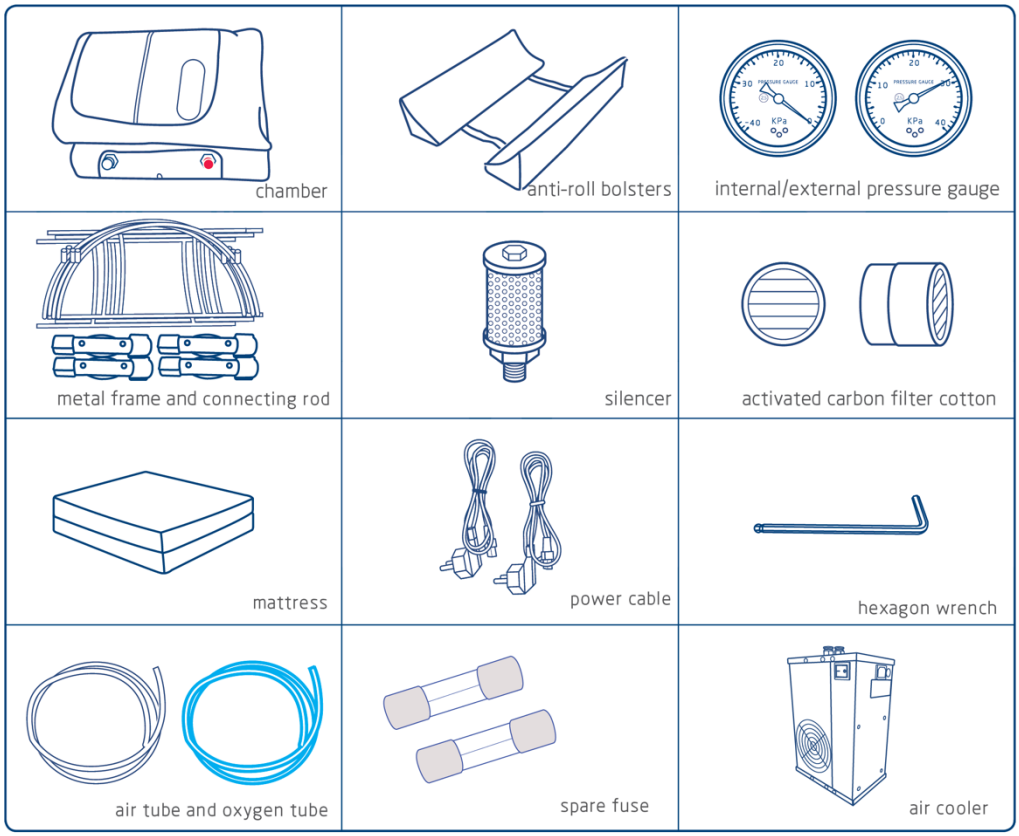
- The hoses use a quick release fitting. Push the outer ring towards the fitting and insert the hose. Gently pull back on the hose and it should lock in place. To remove the hose, press the outer ring toward the fitting and hold it. Gently slide the hose out.

- If possible, it's recommended that two people work together to assemble the chamber. It is possible with one person, but it may be more challenging.

Unpacking

1. Unpack the boxes from the pallet.
2. Identify all boxes. You should have a large box and 3 smaller boxes (4 if you ordered AC).
3. Locate the large box with the chamber and accessories.
4. Remove the anti-roll bolsters and mattress pad from the vacuum pack to allow them to retore their shape. Set these to the side.
5. Locate the white foam package that has the gauges inside. Set these to the side.
6. Locate the chamber. Remove it from the box, lay it out flat where you will use it.

Parts List



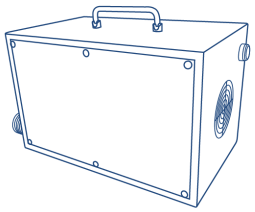
1	cover	7	external pressure gauge(blue)
2	automatic pressure relief valves	8	internal pressure gauge(black)
3	viewing windows	9	air inlet valve
4	anti-roll bolsters	10	oxygen inlet valve
5	zippers	11	Backup Valve
6	air deflate valve	12	emergency pressure relief valve

model / specification	ST901
size	90*225cm
pressure	1.4ATA(40kPai)
weight	13kg

AIRO Recovery

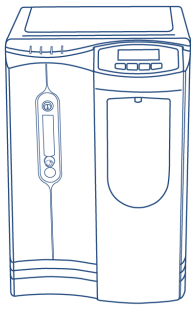
*Note items may not be exactly as pictured depending on model availability.

2. Air compressor



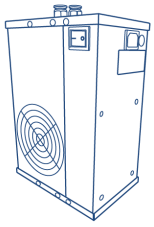
Air Compressor	
Voltage	110/220V
Air Flow	72L/Minute
Power	480W
Weight	18KG

3. Oxygen concentrator



Oxygen Concentrator	
Voltage	110/220V
Oxygen Flow	1-5L/Minute
Power	480W
Weight	30KG

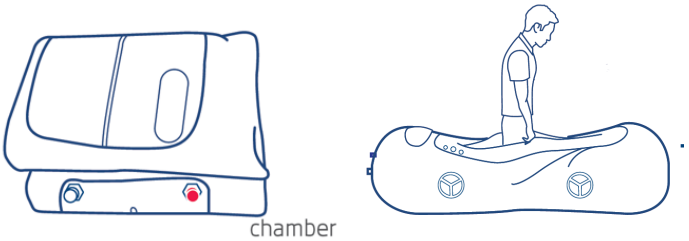
4. Air cooler



Air Cooler	
Voltage	110/220V
Capability	150L/Minute
Pressure	0.8mPa
Power	220w
Weight	5kg

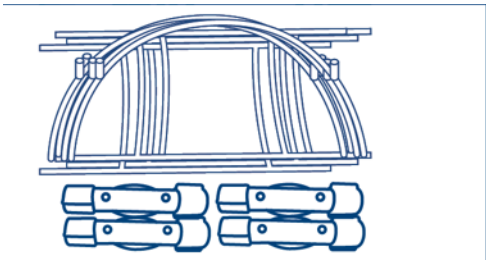
Assembly

1. Locate the chamber and unzip it. Expand the chamber as much as possible with the zipper facing up. You may need to step inside to do this. Remove shoes and any sharp objects before stepping in.


chamber

2. Remove all plastic protection and rubber bands from the chamber's fittings, windows, and valves.
   ***Note- there is plastic covering the release valve <u>on the inside of the chamber</u>.** You must open the chamber and reach inside to remove it.

3. Locate the metal frame and bag of black frame connectors. The frame connectors have threaded caps on both ends. Turn them in opposite directions - left to loosen and right to tighten. You want to loosen them to insert the ends of the frame. Once the frame is inserted, turn them to the right to tighten them to hold the frame pieces together.


metal frame and connecting rod

4. There should be four half-circle frame pieces. One of these pieces has 2 straight parallel bars on one side. Connect this piece to one of the other half-circle pieces. This is the bottom ring that will go at the foot of the chamber. Make sure the 2 bars on the frame are <u>at the very top</u> and are horizontal. This is where an optional AC blower would go if you decided to purchase one and install it in the future.

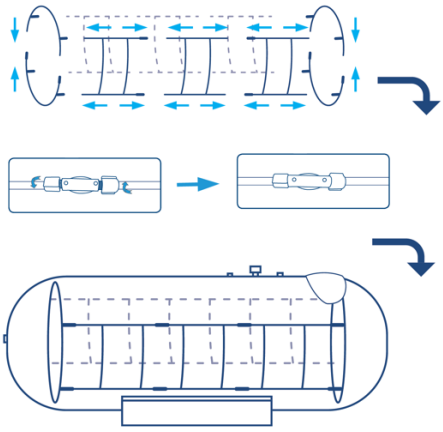
5. Connect the two remaining half-circle frame pieces with the connectors. This ring will go at the head of the chamber (the end with the window).

AIRO Recovery

6. Carefully step in the chamber. Making sure you can breathe, and the chamber doesn't close, use your hands to expand the chamber from the inside and work the assembled ring with the horizontal bars to the bottom or foot area of the chamber. Be careful not to snag or poke the chamber.

7. Do the same with the other assembled frame ring placing it at the top/head area of the chamber.

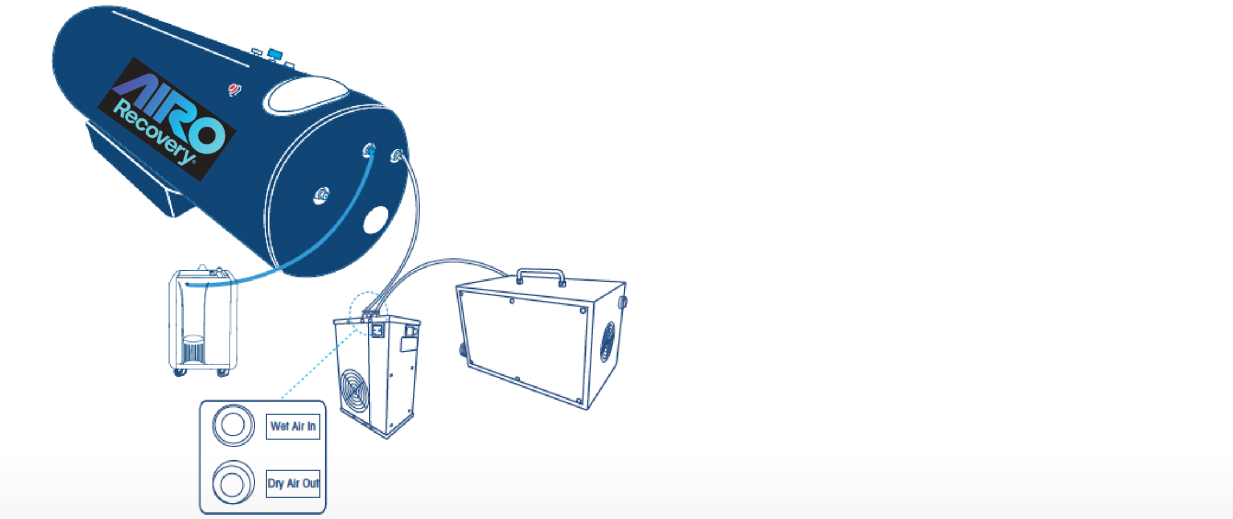
8. Locate the remaining frame pieces and connectors. Install these down the sides to connect the ring at the top to the ring at the bottom. Make sure the side support frame goes down the sides of the chamber so you can climb in through the opening. *Note - These pieces should go down the sides and not on the top and bottom. You can adjust the frame if needed from the inside during your first session while the chamber is inflated.



9. Place the mattress inside the chamber.

10. Locate the foam package with gauges. Note the description of where the pressure gauges go (Inside or Outside).

11. Install the outside pressure gauge with the blue rubber cover to the blue anodized fitting on the outside of the chamber. This should be located by the manual pressure release valve. Hand-tighten the gauge. It should be snug, but do not overtighten.



12. Install the inside pressure gauge with the black rubber cover to the black anodized fitting on the inside of the chamber. This should also be located by the manual pressure release valve. Hand-tighten the gauge. It should be snug, but do not overtighten.

13. Locate the 2 black automatic pressure release valves also found in the foam package.

14. Install the black automatic pressure release valves in the two open two holes at the end of the chamber on the outside. DO NOT INSTALL THESE ON THE INSIDE OR THEY WILL NOT FUNCTION PROPERLY.

15. Locate the red emergency release valve in the foam package. Install it in the remaining open fitting on the outside of the chamber with the “push” label facing inside of the chamber. This is your emergency valve and should not be pushed unless there is an emergency, and you need to depressurize the chamber quickly.

16. Locate the oxygen concentrator, compressor, and air dryer/dehumidifier. (air dryer/dehumidifier not needed if installing AC).

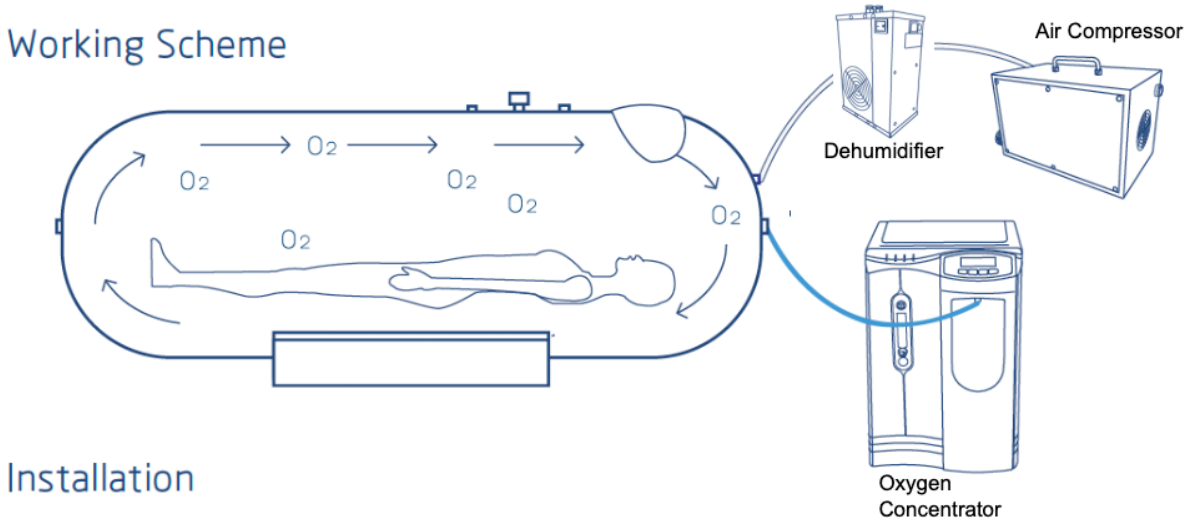
17. Unbuckle and remove the black belt from under the compressor. Once you unbuckle it, pull the belt out and discard it.

18. Carefully cut the zip ties on the bottom of the oxygen concentrator, remove them, and discard them.

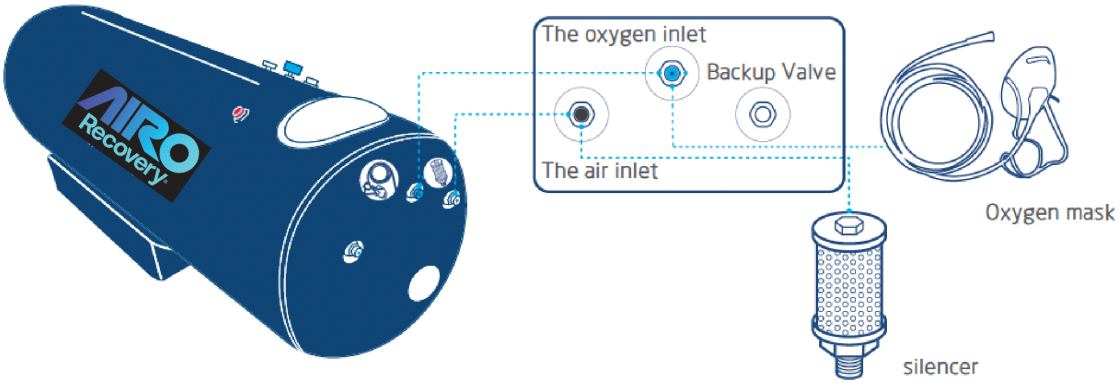
*Note - if you purchased a chamber with AC, you would need to follow the steps in the “Chamber AC Installation” guide as an alternative to steps 19 and 20.

19. Locate the 2 clear hoses. Run one hose from the grey fitting on the back of the compressor to the fitting on the dehumidifier marked “IN”.

20. Take the remaining clear hose and run it from the “OUT” fitting on the dehumidifier to the grey fitting on the chamber. This is your pressurized air to fill the chamber.



21. Locate the blue hose and push it on the fitting on the front of the oxygen concentrator. Push the other end of the blue hose on to the blue fitting on the chamber (near the grey one). This is your concentrated oxygen that will run to the mask or headset on the inside of the chamber. Plug in the oxygen concentrator.



22. Locate small white plastic angled hose fitting in the foam package that the gauges came in. connect this on the inside of the chamber on the other side of the blue fitting that the oxygen concentrator plugs into. Connect either the tube from either the Mask or

headset to the angled fitting (on the inside of the chamber). You can always switch between the mask or headset at any time.

23. Take the 2 power cords and plug one into the back of the compressor and one into the back of the dehumidifier.

24. Once everything is assembled and connected, make sure there is clearance between all the machines and chamber. Make sure the fans and vents on the machines are not obstructed. The chamber will expand, so make sure you allow room to avoid damage or restriction. Be sure to remove the protective film from the viewing windows.

25. Gently lift one end of the chamber and slide the anti-roll bolsters underneath.

Testing

Make sure the chamber is completely assembled, all gauges are properly in place, and all hoses are connected. The chamber will expand once you start to pressurize it, so ensure there is sufficient space around it, and it will not press against the equipment or other objects. This could block airflow or press against sharp objects causing damage. Once this is done, test the chamber without anyone inside to ensure it is assembled correct and settings are as they should be. To do this follow the steps below from outside the chamber.

1. Turn the compressor on by pushing the round button on the front.
2. Turn the dehumidifier (or AC if equipped) on with the switch.
3. Turn the oxygen concentrator on. It will beep as it goes through a test cycle.
4. Make sure you hear the air flowing inside the chamber.
5. Close the manual pressure release valve.
6. Zip the inner-most zipper up. Make sure it is all the way closed. You may have to use your finger to push it up under the blue seal.
7. Tuck the blue seal in flat against the inner most zipper and zip the second (outer) zipper up all the way.
8. Zip the outer black cover up.
9. Watch the chamber to make sure it is expanding. You will see the walls start to expand and the top of the chamber begin to rise. This may take a few minutes.
10. As the chamber is filling, you adjust on the anti-roll bolsters if needed to make sure it is straight and positioned.
11. As the chamber expands and starts to take shape, you should see the outer pressure gauge start to rise from zero (0).
12. This is a 1.4 ATA chamber and should only reach 40Kpa. If the chamber begins to exceed 40Kpa, open the manual release valve slowly by turning to the left and follow the steps listed below for “Adjusting Chamber Pressure”. Refer to the same section if your chamber does not reach 40Kpa, just alternate the steps to decrease pressure instead of increase pressure.

13. If your chamber reaches 40Kpa and maintains. Your chamber is ready. Check the black automatic pressure relief valves and make sure you hear air slowly releasing. They do this to maintain stable pressure and to avoid overinflation.
14. If everything appears to be working as it should, you can depressurize the chamber by opening the manual pressure relief valve. **DO NOT UNZIP THE CHAMBER UNTIL THE PRESSURE GAUGE IS AT ZERO.** Even if the pressure gauge is at zero, make sure the chamber gives a little if you push on it. If the gauge reads zero and the chamber does not give, wait another minute or two until it does before unzipping.

PLEASE SEE THE USER MANUAL FOR INSTRUCTIONS BEFORE USING.

Adjusting Chamber Pressure

*Please note: Your chamber should only be operated and the pressure it was designed to operate at (1.4 ATA = 40Kpa). Causing the chamber to operate above the recommended pressure could cause damage to the chamber or injury.

If the chamber pressure is incorrect, you can adjust it using the automatic pressure release valves. To do this depressurize the chamber. Then remove the outer caps on the automatic pressure release valves by unscrewing them. Once the caps are removed, carefully rotate the valve (Small disc with holes in it) by using needle nose pliers or a similar tool. Place the tips of the pliers in the holes and gently turn to the right or left. Turning to the right tightens the valve and will raise the pressure in the chamber. Turning to left will loosen the valve and lower the pressure of the chamber. Make sure to adjust both valves equally. A ¼ turn is roughly 5Kpa. 1/8th of a turn is roughly 2.5Kpa. Once adjusted where needed, replace the outer caps and repressurize the chamber using the steps listed in the “Testing” section.

Troubleshooting

Chamber will not inflate

Make sure the manual pressure release valve is closed.
Make sure all machines are turned on.
Check to make sure all fittings are tight.
Check to make sure the zippers are zipped all the way up.

Pressure on the gauges is reading above or below 40Kpa.

The automatic pressure release valves are not adjusted properly. See “Adjusting Chamber Pressure” on previous page

Emergency pressure release valve is leaking air when chamber is pressurized.

Chamber pressure may be too high. Adjust the automatic pressure release valves. See “Adjusting Chamber Pressure” on previous page
If pressure is correct, you can adjust the emergency pressure release valve. Contact Airo Recovery for instructions.

Chamber will not depressurize

The manual pressure release valve may be obstructed from the inside. **If there is not a user inside**, turn the equipment off, remove the air hoses one at a time until the pressure reaches zero and it is safe to unzip the chamber and check the internal manual pressure release valve. Once the issue is resolved, replace hoses and re-test.
If a user is inside, they can push the red emergency release valve located on the inside of the chamber.

Machine will not work (oxygen condenser, compressor, or dehumidifier).

Check to ensure they are plugged in, and outlets have power.
Unplug and check fuses in back near power adapter plug

Need help or have questions?
Email us at: support@airorecovery.com
Or call: (714) 248-5401

Normal business hours are:
Monday – Friday
9am-5pm Pacific Standard Time

Airo Recovery LLC
www.airorecovery.com
Social: @airorecovery