OXYPRIME 5

Model XH-18180 | Hard Chamber Hyperbaric System

USER MANUAL

Please read this manual carefully before use. Keep this manual for future reference.



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1. Product Overview

Thank you for purchasing the OxyPrime 5 hyperbaric oxygen system. The OxyPrime 5 is a hard-shell, sit-upright chamber constructed from stainless steel and PC composite material, capable of reaching clinical-grade pressures of up to 2.0 ATA. It features an upright seating position with a large viewing window, built-in seat, top handle for easy transport, and integrated control panel — making it an ideal clinical and home-use hard chamber.

Key features:

- Hard stainless steel + PC construction for higher pressure ratings (up to 2.0 ATA)
- Integrated internal and external control panels for in-session adjustability

- Telephone/intercom system for communication during sessions
- Universal wheel base for easy repositioning
- Compatible with the all-in-one air compressor, oxygen concentrator, and cooler unit
- Suitable for home, clinical, sports recovery, and high-altitude environments

2. Technical Specifications

Cabin	
Max Pressure	2.0 ATA
Material	Stainless Steel + PC
Dimensions	2,000 × 860 × 1,500 mm
Weight	950 kg
All-in-One Compressor Unit	
Dimensions	705 × 345 × 745 mm
Net Weight	110 kg
Power Supply	220V / 50Hz / 1,300W
Oxygen Output	10 L/min
Air Flux	85 L/min
Features	Integrated air compressor, oxygen concentrator, and cooler

3. Component Identification

The diagram below identifies all 12 numbered components on the OxyPrime 5 (Model XH-18180). Components ⑤–⑫ are visible on the exterior side panel. The all-in-one compressor unit is shown separately below.



Figure 1 — OxyPrime 5 component diagram (top view: front/side | bottom view: rear/connections)



Figure 2 — All-in-one compressor unit

① **Handle**	② **Hatch (Cabin Door)**
③ Emergency Pressure Relief Valve	④ Pressure Regulating Valve
⑤ Universal Wheel	⑥ External Pressure Gauge
⑦ Control Panel	⑧ Telephone / Intercom
⑨ Window	⑩ Seat
⑪ Pressure Relief Valve	⑫ Constant Pressure Valve

4. Safety Precautions

⚠ **WARNING** If an unusual odor is detected during operation, immediately power off the unit and unplug it from the wall outlet. Do not resume use until the source has been identified.

⚠ **WARNING** Do not operate this device with wet hands or in damp environments. Ensure the power plug and socket are fully and securely connected before use.

Additional safety requirements:

- Do not attempt to disassemble or modify the device in any way.
- Keep the unit away from open flames, heat sources, and water.
- Children must only use the chamber under direct adult supervision.
- Do not touch or manually adjust any valves during pressurized operation.
- Do not place heavy objects on the unit or use it if wiring appears loose or damaged.
- Do not pull, twist, or forcefully bend the power cord.

5. Contraindications

The following individuals should not use this device without prior written clearance from a licensed physician:

- Pregnant women
- Individuals with active infectious diseases or severe systemic illness
- Individuals under the influence of alcohol
- Individuals experiencing a severe cold or active chest/pulmonary disease
- Patients using a cardiac pacemaker
- Patients with rhinitis or otitis media (ear infections)
- Individuals with uncontrolled hypertension (blood pressure exceeding 160/100 mmHg)
- Patients with severe emphysema or other obstructive lung conditions

NOTE: When in doubt, always consult a qualified healthcare provider before beginning hyperbaric therapy.

6. Setup & Tube Connections

Before first use, complete the following connection steps in order to connect the all-in-one compressor unit to the chamber.

Step 1 — Connect the Air tube (transparent thick tube)

Insert the transparent thick air tube (labeled 'Air') into the Air port on the all-in-one compressor unit.



Figure 3 — Connecting the Air tube to the compressor unit

Step 2 — Connect the Oxygen tube (blue)

Insert the blue oxygen tube (labeled 'Oxygen') into the Oxygen port on the all-in-one compressor unit.



Figure 4 — Connecting the Oxygen tube to the compressor unit

Step 3 — Connect the Door tube

Insert the Door tube into the corresponding Door port on the all-in-one compressor unit.



Figure 5 — Connecting the Door tube to the compressor unit

Step 4 — Connect the signal lines and power on

Connect the signal lines to the cabin, then press the red power switch button to start the unit.



Figure 6 — Connecting signal lines and pressing the power switch

7. Control Panel Functions

The OxyPrime 5 features both an external control panel (outside the chamber) and an internal control panel (accessible from inside during a session). The control panel includes the following functions:

Button	Function
Cal	Calibration function.
ON / OFF	Powers the unit on or off.

O_2	Activates the oxygen concentrator.
Air Purifier / Anion	Activates the air purifier and negative ion generator.
Dehumidify	Activates the dehumidification function.
Refrigerate	Activates the cabin cooling function.
Lighting	Controls the interior cabin lighting.



Figure 7 — Internal control panel with manual pressure valve

8. Operating Instructions

8.1 Starting a Session

1. Before entering, confirm the pressure gauge reads 0 ATA. Loosen the pressure relief valve.
2. Open the hatch (cabin door) and enter the chamber.
3. Close the hatch securely from the inside. Tighten the pressure relief valve.
4. Turn on the unit and select the desired functions using the control panel.
5. Allow the cabin to pressurize to your target pressure (1.3–2.0 ATA). Recommended session duration is 60 minutes.
6. Internal pressure can be fine-tuned using the pressure switching valve during the session.



Figure 8 — Loosening the valve before entry

8.2 Ear Pressure Equalization

During pressurization, some users experience temporary ear discomfort. This is normal. To equalize:

- Chew gum or swallow repeatedly.
- Pinch your nose, close your mouth, and gently blow (Valsalva maneuver).

> **NOTE:** If equalization is not possible due to nasal congestion or allergies, stop use immediately. You may also slow the pressurization rate using the internal manual pressure relief valve.

8.3 Pressure Valves Overview



Figure 9 — Pressure gauge (top), Emergency PRV — red (bottom left), Manual PRV — blue (bottom right)

8.4 Manual Pressure Relief Valve (Blue)



Figure 10 — Manual pressure relief valve (blue)

The manual pressure relief valve (blue) serves two purposes:

- Pressurization control: Tighten fully to pressurize. During a session, partially opening the valve allows you to slow or reduce the pressure level.
- Depressurization: After a session, slowly rotate the valve open to release cabin pressure. The cabin depressurizes from ~120 kPa to 0 kPa in approximately 5 minutes. When the gauge reads 0 kPa, it is safe to open the hatch.

8.5 Emergency Pressure Relief Valve (Red)

⚠ **IMPORTANT**	Do NOT attempt to open the hatch while the cabin is under pressure. Always depressurize fully before opening the door.



Figure 11 — Emergency pressure relief valve (red Push button)

If you feel unwell during a session and need to exit quickly, press the red emergency pressure relief valve push-button to rapidly release cabin pressure before opening the hatch. Do not force the hatch while pressurized.

9. Daily Maintenance

9.1 Condensate Trap — Water Cup

A small amount of water may collect in the condensate trap after each session. This is normal.



Figure 12 — Turning the water cup counterclockwise to remove

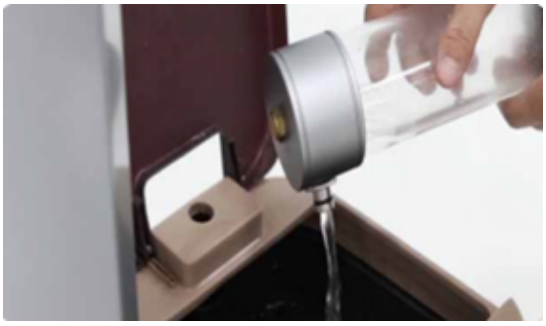


Figure 13 — Draining water by rotating the gold switch

- Turn the water cup counterclockwise to remove and pour out collected water.
- Alternatively, rotate the gold-colored drain switch at the base of the cup to release the water.

9.2 Air Filter Element



Figure 14 — Removing the filter cap (blue)



Figure 15 — Removing the filter element

- Remove the blue filter cap and extract the filter element.
- Replace the activated carbon cotton filter every 6–12 months depending on frequency of use.

9.3 Fuse Replacement



Figure 16 — Using a screwdriver to rotate fuse cap counterclockwise



Figure 17 — Removing and replacing the fuse

- Use a flat-head screwdriver or a coin to rotate the fuse cover counterclockwise.
- Remove and replace the fuse with one of identical rating.

10. Troubleshooting

Issue	Possible Cause	Corrective Action
Cabin pressure rises slowly	Air pipe or inlet connector is loose, disconnected, or cracked. Air filter is clogged with dust. Compressor air intake is blocked. Compressor screws are loose. Manual pressure relief valve is not fully tightened.	Inspect all connections and reattach any loose or cracked fittings. Replace or clean the filter cotton. Clear the compressor air intake. Tighten all compressor screws. Fully tighten the manual pressure relief valve.
Abnormal noise or vibration from compressor	Air filter cotton is clogged or damaged. Compressor air intake is blocked. Compressor screws are loose.	Inspect and replace the air filter cotton if necessary. Clear the compressor air intake. Tighten all compressor screws.
Cabin will not pressurize	Air pipe has detached and is leaking. Manual pressure relief valve is open or not fully tightened. Air pipe has a leak.	Verify all air pipe connections are secure. Fully close and tighten the manual pressure relief valve. Inspect the air pipe for damage and replace if necessary.
Pressure will not rise	Hatch is not closed tightly. Manual pressure relief valve is not tightened. Air pipe is not connected correctly.	Depressurize fully, close the hatch securely, and restart. Tighten the manual pressure relief valve. Verify the air pipe is properly connected.

11. Warranty & Service

11.1 Warranty Coverage

- Free warranty service is provided for one (1) year from the original purchase date.
- Warranty service covers manufacturing defects under normal use and operation.

11.2 Warranty Exclusions

The following are NOT covered under warranty:

- Damage caused by failure to follow the instructions in this manual.
- Damage resulting from improper use, incorrect operation, or unauthorized structural modifications.
- Damage caused by removal of warranty labels, protective parts, or factory components.
- Physical damage to the cabin (cuts from sharp objects, burns from cigarettes or heat sources).

12. Warranty Registration Card

Product Model	
Serial / Product Number	
Purchase Date	
Customer Name	
Contact Phone	
Contact Email	

13. Warranty Service Log

Warranty Period	Fault Description & Resolution	Date Completed	Customer Signature

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