



HOME OXYGEN ENRICHMENT SYSTEM

User Operating Manual

Premium Residential Oxygen Solutions

Welcome

Thank you for choosing the Oxysync Home Oxygen Enrichment System. This system is designed to increase indoor oxygen levels in selected areas of your home to improve comfort at higher elevations.

Oxysync operates automatically, requires minimal interaction, and continuously monitors oxygen levels to maintain your selected setting safely and efficiently.

Table of Contents

- 1. How the System Works**
- 2. Operation**
- 3. Scheduled Operation**
- 4. Adjusting Altitude Equivalency**
- 5. Using Oxyburst**
- 6. System Safeguards**
- 7. Troubleshooting Basics**
- 8. Service & Support**

1. How the System Works

Oxysync delivers oxygen to designated zones of the home according to a carefully programmed schedule designed during installation. Each zone operates independently to ensure balanced oxygen distribution, stable performance, and efficient equipment use.

Within each oxygenated space, an in-room oxygen sensor continuously monitors real-time oxygen concentration. These sensors serve as the feedback mechanism for the entire system. Each sensor:

- Continuously measures oxygen levels within the room
- Communicates live data to the central control system
- Signals the system to increase, decrease, or maintain oxygen output as needed

Once the selected oxygen level has been reached and stabilized, the system will temporarily shut down to allow equipment to cool. During this cooling period, oxygen levels in the space are intentionally allowed to gradually decrease before the system resumes operation.

This controlled cycling is an intentional part of the altitude acclimation strategy. By allowing oxygen levels to gently rise, then naturally fall, and then increase again, the system helps simulate the subtle oxygen fluctuations experienced during altitude exposure. Similar conditioning principles are used by mountain climbers and high-altitude training programs, where controlled variations in oxygen availability encourage the body to adapt more efficiently.

These controlled fluctuations support the body's natural acclimation response, including improved oxygen utilization and adaptation over time.

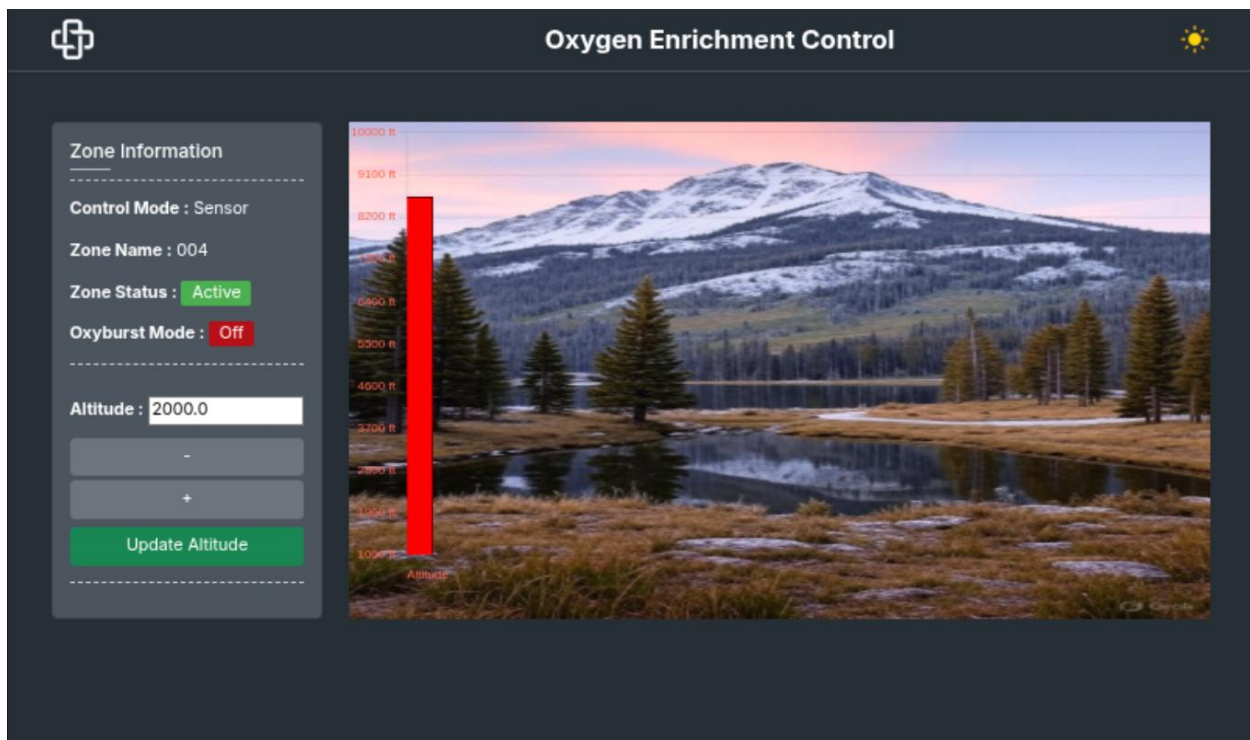
After the cooling interval, the system automatically resumes operation and restores oxygen levels to maintain the selected altitude equivalency setting.

No daily adjustments are required for normal operation. The system continuously manages these processes automatically in the background.

2. Operation

Turning the System On

1. Locate the red Inactive button on the control screen.
2. Press the red Inactive button.
3. The indicator will change to green Active.



When the indicator is green, the system is ready to operate according to its schedule.

Shortly after activation, the Altitude Equivalency Chart will appear on the display.

Turning the System Off

- Press the green Active button.
- The indicator will return to red Inactive

3. Scheduled Operation

Oxysync runs automatically according to its programmed schedule.

- **Stable oxygen delivery**
- **Proper zoning**
- **Efficient equipment performance**

No user adjustments are required for scheduled operation.

4. Adjusting Altitude Equivalency

The Altitude Equivalency setting allows you to adjust the effective oxygen level delivered to your space.

Lower equivalency = Higher oxygen concentration

Higher equivalency = Lower oxygen concentration

Example:

- **1,000 ft equivalency corresponds to approximately 24% oxygen.**

To adjust:

- 1. Use the on-screen controls shown on the Altitude Equivalency Chart.**
- 2. Select your desired elevation setting and press Update Altitude.**
- 3. The system will automatically adjust output to match your selection.**

Changes may take time to fully stabilize as the system gradually adjusts oxygen levels.

5. Using Oxyburst

The Oxyburst feature provides immediate oxygen delivery outside of the normal schedule.

To use Oxyburst:

- 1. Press the Oxyburst button.**
- 2. The system will begin an oxygen cycle immediately.**
- 3. The duration of the cycle is adjustable.**
- 4. Oxyburst mode will not impact the programmed daily schedule.**

Oxyburst is ideal for temporary or immediate comfort needs.

6. System Safeguards

Oxysync includes built-in protections for safety and longevity:

- Continuous oxygen monitoring**
- Automatic output adjustment**
- Automatic cooling shutdown after target level is reached**
- Safety interlock preventing oxygen levels above 27% maximum saturation**
- Scheduled zone separation to prevent system overlap**

These features operate automatically and require no user intervention.

7. Troubleshooting Basics

If the system does not appear to operate as expected:

- Confirm the indicator shows Active (green).
- Ensure room oxygen sensors are not obstructed.
- Verify all doors and windows within the oxygenated zone are closed.
- Verify power is supplied to the system.

If issues persist, contact your authorized service provider.

8. Service & Support

Routine maintenance and service should be performed by a qualified technician.

For service scheduling or support questions, please contact your authorized Oxysync service provider.

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User Manual – Rev 1.25



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