

# ATHERE



## AVI SERIES

SMART OXYGEN SYSTEMS  
PRODUCT CATALOG 2022

# AITHRE AVI SMART OXYGEN SERIES

CATALOG AND PRODUCT SELECTION GUIDE

September 2022

## INTRODUCTION



The AVI oxygen systems are available in 1-6 place portable and/or built-in experimental or certified systems in a variety of configurations that make the Aithre advanced oxygen technology available in the form you need for your aircraft or glider. The microburst, biometric feedback, iOS and WatchOS integration, and optical flow sensor technology is standard with each configuration.

This catalog outlines the variety of configurations and options in portable, built-in, experimental, and certified AVI systems, but we can offer additional options and are always available to consult on your specific aviation oxygen needs.

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## TECHNOLOGY & FEATURES

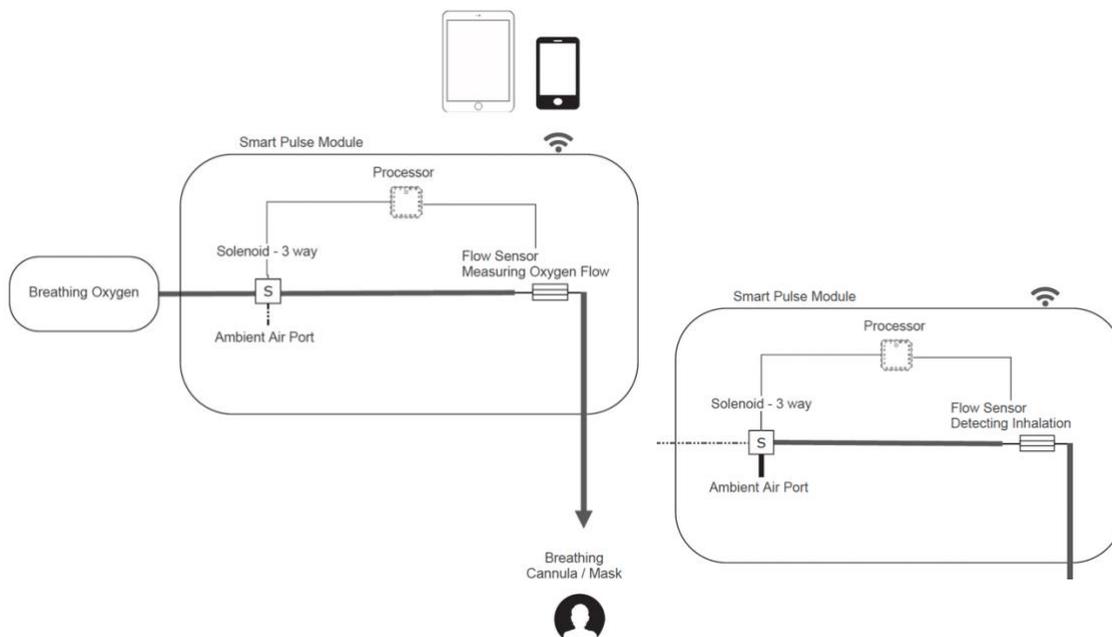


Aithre was born from an incident where co-founder Jim Ruttler ran out of oxygen on a trip back from AirVenture 2016 at altitude, putting his family at risk of harm. A lot of luck with conditions and early detection at very high altitude allowed for a safe outcome, but this event highlighted the deficiencies in the then current technology. Frustrated by the lack of control of and information regarding health systems in the aircraft, as compared to engine and navigation systems, Aithre set out to build oxygen and health products that would solve these problems and help make flying safer for our aviation community.

Today we are excited to demonstrate why the AVI systems are the most advanced oxygen systems available in general aviation and why the technology has been awarded the prestigious Aviation Consumer Magazine Editor's Choice award & Product of the Year for 2022.

We hope you will find that some of our work will benefit your mission and that we can play a role in keeping you and your family safer in the sky.

## OPTICAL FLOW SENSORS



All of the AVI smart oxygen systems – portable and built-in – are built upon an innovative and patent pending arrangement of an optical flow sensor and a low wattage high pressure 3-way solenoid valve. The optical flow sensor enables very sensitive long-range detection of breathing combined with measurements of oxygen flow, while the 3-way solenoid provides a 20ms bursts of oxygen switched with breathing detection mode.

The processor controls the amount of oxygen based on parameters such as respiration rate, pressure altitude, and biometric data, and delivers the oxygen using a series of microbursts throughout the beginning of the inhalation cycle. The microburst allows for a smoother delivery of oxygen, by dripping small amounts of pure oxygen into each volume of air inhaled.

Solenoids typically consumer large amounts of electricity and release significant heat in order to act as a gate for 50 psi levels of pressure. The AVI series technology, however, uses low wattage custom 3-way solenoids that use the pressure of the incoming oxygen to assist with the opening and closing of the solenoid, thereby reducing the overall electrical consumption and heat dissipation to extraordinarily low levels. The safety benefits of this technology are obvious.

Lastly, the inline optical flow sensor detects breathing over long distances without any loss of sensitivity due to the nature of movement of a column of air within a tube. When sucked from one end, the entire column of air moves, enabling small particle movement changes to be translated into breathing indications. Practically speaking, this means that, in addition to a more sensitive inhalation detection, the control box of the AVI can be located in the tailcone *without* requiring local sensor modules proximate to the station.

**IN-APP CONTROL, MONITORING, AND BIOMETRIC FEEDBACK**



While the AVI can and is designed to operate without the Aithre Connect iOS app, use of the app enables enhanced functionality, improved notifications, and unlocks longer endurance capabilities. The Aithre app is free and is designed to run in the background or in split-screen mode, making it possible to use alongside your preferred aviation navigation app.

The simplest way to use the Aithre app is merely to open the app and allow it to run in the background. All of the pairing is handled automatically using advanced BLE in-app pairing methods. While running, the Aithre app will reduce your oxygen consumption to your altitude and provide a number of safety warnings and notifications regarding oxygen flow and pressure, both on the screen and directly to your iOS-paired aviation communication headset.

More advanced auto-mode features and oxygen reduction settings can be used to further increase endurance by providing you with less oxygen only when it is needed, using biometric feedback and altitude to automatically turn the oxygen on/off. Practically

speaking, the AVI system can be armed to efficiently dispense oxygen only when your body needs it, extending endurance to very high levels.

## AITHRE HEALTHVIEW AVIONICS SYSTEM

Coming Q1 2023!



The Aithre Healthview offers an advanced digital touch screen output of health data plus independent control of your AVI built-in oxygen systems.

The Healthview is built on a quad low power processor backbone with two wireless BLE channels and a resistive touch screen sized to fit any panel with a miniature form factor.

Using wireless, analog inputs, or RS-232, the Healthview automatically keeps all your health data accessible with dedicated carbon monoxide, pressure, blood oxygen, heart rate, flow rate, dew point, cabin temperature, outside temperature, humidity, cabin pressure altitude gauges. The intuitive display navigation allows for more than

a dozen individualized layouts to keep the data that is important to you most prominent.

And, for our AVI built-in oxygen systems, the Aithre Healthview uses its internal pressure altimeter to control your oxygen system dosages to altitude, independent of the iOS app – giving you the confidence to breathe efficiently.

## PUSH BUTTON ACTIVATION

With the limited exception of the AVI “mini”, all of the AVI systems include a custom O2 button that enables remote on/off activation of the AVI system.

For built-in systems, this O2 button is typically placed in the avionics panel or overhead panel near the pilot station, making it incredibly easy to turn the oxygen on and off from a distance. Moreover, the oxygen button includes an indicator light that extinguishes when the system is off or when the pilot station is not breathing, such as when the cannula is disconnected or kinked.



With the portable AVI8 systems, the O2 button is provided on a handle with a 3 foot cable to support turning the oxygen system on and off when located out of physical reach. The same indicator light extinguishes in the event of a pilot line disruption.

## AVIONICS INTEGRATION

The AVI EX series of built-in oxygen systems include an RS-232 output that includes a stream of rich health data that can be output directly to your avionics. Check with your avionics manufacturer to confirm support for this published Aithre protocol.



While the RS-232 data stream provides more fields, the AVI EX series also includes a discrete 12V fault line that is driven low to ground when the pilot is not breathing or when oxygen pressure is absent. This discrete fault line is supported by many modern avionics systems and can often be configured to throw a warning flag within the EFIS.

Outside the AVI EX, for the portable AVI systems the Aithre Shield EX 3.0 also provides voltage outputs for pilot SPO2, oxygen bottle PSI, and carbon monoxide PPM directly to your avionics engine monitoring system. The Shield EX 3.0 gathers the data wirelessly, and converts it to a voltage form that is readable by any analog input pin.

## COMPOSITE CARBON FIBER BOTTLES



Aithre oxygen bottles are included with every experimental built-in kit and portable kit. Additionally, for an added layer of safety, all experimental built-in kits include a backup standalone coffee tumbler sized 47L fixed flow bottle.

The Aithre carbon fiber composite bottles are lined with aluminum and sport an elegant high gloss finish. In addition to being

lightweight, the Aithre bottles come with a CE certification to ISO 11119-3 standard, and are burst tested to over 10,000 PSI with a working pressure of 4500 PSI (which is more than the metal regulator provided with the bottles).

Along with the Aithre bottle is a high performance oxygen regulator that boasts a number of exciting improvements over typical regulators. To begin, the Aithre regulator includes a built-in valve and checked fill port, making it easier to fill and safer to use with always available oxygen. There are two output ports, including one that is always on and available to the AVI and another that is optionally usable with a built-in flow regulator from 0.5 – 25 LPM. The protective handle shroud protects the regulator in the case of dropping and makes hand-offs and carrying more assured.

Lastly, the Aithre regulator comes pre-installed with the Altus Meso wireless pressure transducer technology, which feeds oxygen pressure to your Aithre Connect app and to your avionics via the Aithre Shield EX 3.0 or AVI EX RS-232 outputs. This feature keeps you informed of your oxygen levels even when the bottle is out of reach and out of sight.

## AITHRE AVI PORTABLE SYSTEMS WITH COMPOSITE BOTTLES

The AVI “mini” 1-place and the AVI8 2-place are available in kit form complete with the smart oxygen systems and composite oxygen bottles. The AVI “mini” 1-place is available with a 47L or a 152L bottle composite bottle. The AVI 2-place is available with a 152L or 925L bottle option.

### 1-PLACE PORTABLE COMPOSITES

## AITHRE AVI “MINI” 1-PLACE 47L COMPOSITE BOTTLE



 The AVI 1-place 47L composite bottle is a complete system for one person and provides good endurance combined with a very compact lightweight form factor.

#### FEATURES

- 1-PLACE SMART PULSE
- PORTABLE CONTROL BOX
- CARBON FIBER 47L BOTTLE
- AITHRE REGULATOR
- AITHRE ALTUS MESO
- SILICONE CANNULA
- USB BATTERY PACK

#### BOTTLE SPECS

2LBS 14OZ

2 1/2" X 15 3/8"

3.1 – 6.2 HRS @ 10K MSL

# AITHRE AVI “MINI” 1-PLACE 152L COMPOSITE BOTTLE



 The AVI 1-place 152L composite bottle is a complete system for one person and provides higher endurance combined with a compact lightweight form factor.

## FEATURES

- 1-PLACE SMART PULSE
- PORTABLE CONTROL BOX
- CARBON FIBER 152L BOTTLE
- AITHRE REGULATOR
- AITHRE ALTUS MESO
- SILICONE CANNULA
- USB BATTERY PACK

## BOTTLE SPECS

4LBS 3OZ

4 1/32" X 15 3/16"

10.0 – 20.0 HRS @ 10K MSL

# AITHRE AVI8 2-PLACE 152L COMPOSITE BOTTLE



 The AVI8 2-place 152L composite bottle is a complete system for two people and provides good endurance for two combined with a compact form factor.

## FEATURES

- 2-PLACE SMART PULSE
- PORTABLE CONTROL BOX
- CARBON FIBER 152L BOTTLE
- AITHRE REGULATOR
- BUTTON HANDLE
- AITHRE ALTUS MESO
- SILICONE CANNULAS
- USB BATTERY PACK

## BOTTLE SPECS

4LBS 3OZ

4 1/32" X 15 3/16"

10.0 – 20.0 HRS @ 10K MSL



# AITHRE AVI8 2-PLACE 925L COMPOSITE BOTTLE



The AVI8 2-place 925L composite bottle is a complete system for two people and provides very high endurance in a large oversized lightweight bottle.

## FEATURES

- 2-PLACE PORTABLE CONTROL BOX
- CARBON FIBER 925L BOTTLE
- AITHRE REGULATOR
- BUTTON HANDLE
- AITHRE ALTUS MESO
- SILICONE CANNULAS
- USB BATTERY PACK

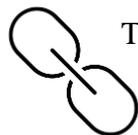
## BOTTLE SPECS

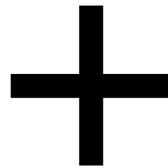
11LBS 12OZ

6 3/8" X 26 1/4"

60.9 – 121.7 HRS @ 10K MSL

## AITHRE AVI8 & AVI “MINI” 3-PLACE ARRANGMENT

 The AVI8 2-place can be combined with the AVI “mini” 1-place to create a modular 3-place system that is seamlessly handled as a 3-place system in the Aithre Connect app. The AVI8 2-place can be combined with another AVI8 2-place to create a modular 4-place system that is seamlessly handled as a 4-place system in the Aithre Connect app.



## AITHRE AVI BUILT-IN SYSTEMS WITH COMPOSITE BOTTLES FOR EXPERIMENTAL

The AVI technology is available in complete kits for installation in your experimental. The kits include all bottles, plumbing, fittings, cannulas, and electronics required for installation and use. The difference between the systems are the number of places and the bottle sizes. There are also housing size differences for the smart pulse electronics that should be considered.



### 16EX

1-PLACE

COMPACT HOUSING

152L COMPOSITE

### 24EX

2-PLACE

COMPACT HOUSING

152L, 925L COMPOSITE

### 32EX

2-PLACE

STANDARD HOUSING

152L, 925L COMPOSITE

### 64EX

4-PLACE

STANDARD HOUSING

925L COMPOSITE

### 128EX

6-PLACE

LARGE HOUSING

925L COMPOSITE

# AITHRE AVI 16EX 1-PLACE 152L SYSTEM

The AVI 16EX 1-place 152L is a complete system for one person and provides good endurance combined with a very compact lightweight form factor with a new smaller control box.



## FEATURES

- 1-PLACE BUILT-IN
- COMPACT CONTROL BOX
- CARBON FIBER 152L BOTTLE
- BACKUP 47L BOTTLE
- AITHRE REGULATOR
- AITHRE ALTUS MESO
- PANEL O2 BUTTON
- RS-232 AND DISCRETE OUTPUT
- SILICONE CANNULA
- PLUMBING & FITTINGS
- AITHRE USB FAST CHARGER
- BOTTLE MOUNT

## BOTTLE SPECS

4LBS 3OZ

4 1/32" X 15 3/16"

10.0 – 20.0 HRS @ 10K MSL



# AITHRE AVI 24EX 2-PLACE 152L SYSTEM

The AVI 24EX 2-place 152L is a complete system for two people and provides moderate endurance combined with a compact bottle and a new smaller control box.



## FEATURES

- 2-PLACE BUILT-IN
- COMPACT CONTROL BOX
- CARBON FIBER 152L BOTTLE
- BACKUP 47L BOTTLE
- AITHRE REGULATOR
- AITHRE ALTUS MESO
- PANEL O2 BUTTON
- RS-232 AND DISCRETE OUTPUT
- SILICONE CANNULAS
- PLUMBING & FITTINGS
- AITHRE USB FAST CHARGER
- BOTTLE MOUNT

## BOTTLE SPECS

4LBS 3OZ

4 1/32" X 15 3/16"

10.0 – 20.0 HRS @ 10K MSL

# AITHRE AVI 24EX 2-PLACE 925L SYSTEM

The AVI 24EX 2-place 925L is a complete system for two people and provides very high endurance combined with a large bottle and a new smaller control box.



## FEATURES

- 2-PLACE BUILT-IN
- COMPACT CONTROL BOX
- CARBON FIBER 925L BOTTLE
- BACKUP 47L BOTTLE
- AITHRE REGULATOR
- AITHRE ALTUS MESO
- PANEL O2 BUTTON
- RS-232 AND DISCRETE OUTPUT
- SILICONE CANNULAS
- PLUMBING & FITTINGS
- AITHRE USB FAST CHARGER
- BOTTLE MOUNT

## BOTTLE SPECS

11 lbs 12 oz

6 3/8" x 26 1/4"

60.9 – 121.7 HRS @ 10K MSL

# AITHRE AVI 64EX 4-PLACE 925L SYSTEM



The AVI 64EX 4-place 925L is a complete system for four people and provides very high endurance combined with a large bottle and a standard control box.



## FEATURES

- 4-PLACE BUILT-IN
- STANDARD CONTROL BOX
- CARBON FIBER 925L BOTTLE
- BACKUP 47L BOTTLE
- AITHRE REGULATOR
- AITHRE ALTUS MESO
- PANEL O2 BUTTON
- RS-232 AND DISCRETE OUTPUT
- SILICONE CANNULAS
- PLUMBING & FITTINGS
- AITHRE USB FAST CHARGER
- BOTTLE MOUNT

## BOTTLE SPECS

11 lbs 12 oz

6 3/8" x 26 1/4"

60.9 – 121.7 HRS @ 10K MSL

## AITHRE AVI PORTABLE SYSTEMS FOR NON-AITHRE BOTTLES

The AVI series systems are all available without an Aithre bottle for instances where a different or specific bottle size or type is required. A custom Mountain High regulator is included that enables the AVI system to be used with any standard Aviation oxygen bottle. This includes any other aviation oxygen bottle made from Kevlar, Composite, or Aluminum with a standard CGA-540 valve.



### FEATURES

- ANY AITHRE SYSTEM
- ANY OXYGEN BOTTLE
- REQUIRES CGA-540 VALVE

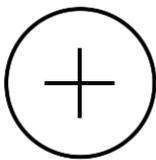
## AITHRE AVI PORTABLE STANDALONE SYSTEMS

The AVI “mini” 1-place is available in standalone form without any separate regulator and without any bottle. This AVI “mini” 1-place standalone is designed for use with existing aircraft built-in oxygen systems to conserve and control oxygen that is otherwise provided as a constant flow output. The AVI “mini” requires a 50 PSI input of pressurized oxygen.

AVI “MINI” PORTABLE STANDALONE

Coming Q1 2023!

# AITHRE AVI “MINI” 1-PLACE STANDALONE



The AVI “mini” 1-place operates off of 50 PSI and USB power to provide higher endurance and intelligence to your existing aircraft built-in oxygen system.



### FEATURES

- 1-PLACE PORTABLE
- 50 PSI INPUT
- SMART PULSE OUTPUT
- iOS AITHRE CONNECT APP
- SILICONE CANNULA
- ARM/KNEE STRAP
- USB POWER ADAPTER
- NEOPRENE POUCH

## AITHRE AVI C BUILT-IN SYSTEMS FOR CERTIFIED AIRCRAFT

The AVI C systems are approved for installation in ALL Part 23 unpressurized aircraft – any make, model, or year. The FAA approval under NORSEE provides for full aircraft integration of the plumbing lines, cannula plugs, oxygen button, and control box with ship power. The AVI C is authorized for primary use below where oxygen is legally required, where oxygen should be used above 5k at night and above 8k during the day, and as backup otherwise. A separate coffee-tumbler-sized portable bottle is provided with each system for primary use when above altitudes where oxygen is required.



16C

1-PLACE

64C

4-PLACE

32C

2-PLACE

128C

6-PLACE

# AITHRE AVI 32C 2-PLACE BUILT-IN OXYGEN SYSTEM



The AVI 32C includes the control box and plumbing kit to integrate 2-place smart oxygen into your existing Part 23 aircraft. Each station benefits from independent smart oxygen. The kit includes everything you need to install and use the system in two stations, with the exception of the actual oxygen bottle due to the large number of bottle variations possible.



## FEATURES

- 2-PLACE BUILT-IN SMART PULSE
- CONTROL BOX
- CUSTOM MH REGULATOR
- BACKUP 47L BOTTLE
- AITHRE ALTUS MESO
- PANEL O2 BUTTON
- SILICONE CANNULA
- PLUMBING AND FITTINGS
- BOTTLE MOUNT
- ANY AVIATION BOTTLE\* \*aluminum, composite, KEVLAR; any DOT size; main bottle separate

# AITHRE AVI 64C 4-PLACE BUILT-IN OXYGEN SYSTEM



The AVI 64C includes the control box and plumbing kit to integrate 4-place smart oxygen into your existing Part 23 aircraft. Each station benefits from independent smart oxygen. The kit includes everything you need to install and use the system in four stations, with the exception of the actual oxygen bottle due to the large number of bottle variations possible.



## FEATURES

- 4-PLACE BUILT-IN SMART PULSE
- CONTROL BOX
- CUSTOM MH REGULATOR
- BACKUP 47L BOTTLE
- AITHRE ALTUS MESO
- PANEL O2 BUTTON
- SILICONE CANNULA
- PLUMBING AND FITTINGS
- BOTTLE MOUNT
- NEOPRENE POUCH
- ANY AVIATION BOTTLE\*

\*aluminum, composite, KEVLAR; any DOT size; main bottle not priced with kit



## AITHRE AVI SUPPORTING TECHNOLOGY

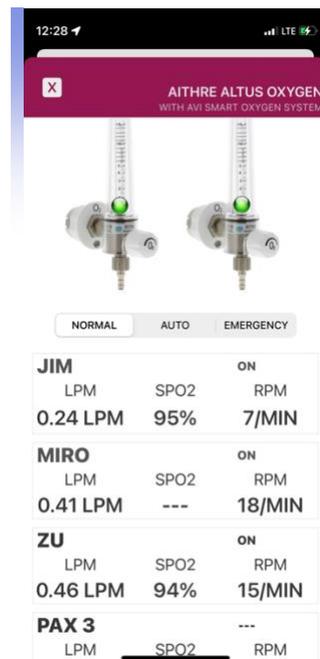
The AVI series of smart oxygen technology are designed to operate independently of the following supporting technology. However, the iOS Aithre Connect app is a free download to your Apple iPhone or iPad and includes a companion WatchOS app. Use of the Aithre Connect app provides enhanced safety through monitoring, alerts, and control, that are not possible without the app. Additionally, the Aithre Illyrian wearable oximeter provides an always-on oximeter solution that continuously monitors up to 6 passengers simultaneously within the Aithre Connect app, including the potential for biometric feedback control of your AVI oxygen system and dosage titration. Lastly, our Shield line of portable or built-in carbon monoxide detectors provide for high sensitivity and long-life monitoring of toxic CO gas in your cabin, using the same Aithre Connect app for a complete end-to-end solution to breathing safety.

## IOS & WATCHOS APP

# AITHRE CONNECT IOS



The Aithre Connect App is a FREE download from the APPLE store and includes a WatchOS companion app. The app integrates all of the Aithre technology for monitoring and control in one location, and enables smart functionality in the AVI series of oxygen systems, including biometric feedback control of the oxygen.



### FEATURES

- NO LOGIN AND NO ACCOUNT REQUIRED
- INTEGRATES ALL AITHRE TECHNOLOGY
- MONITORING AND ALERTS
- BIOMETRIC FEEDBACK CONTROL
- AUTO MODE OXYGEN
- FOREGROUND OR BACKGROUND OPS
- SPLIT SCREEN ENABLED
- AUTOMATED PAIRING VIA BLE

# AITHRE ILLYRIAN WEARABLE OXIMETER



The Aithre Illyrian wearable oximeter provides always-on continuous monitoring of your blood oxygen and pulse rate for up to 6 simultaneous people. Beyond providing information and customizable alert levels, the oximeter information is used by the AVI series oxygen systems for biometric control, auto on/off modes, and unlocks the highest oxygen endurance rates possible.



## FEATURES

- ALWAYS-ON CONTINUOUS
- UP TO SIX PEOPLE
- GRAPHS
- HISTORY
- ALERTS AND MONITORING
- BIOMETRIC FEEDBACK CONTROL
- HIGHER O2 ENDURANCE
- USB 5V POWER
- HEADBAND OR EARCUP



# AITHRE SHIELD PORTABLE OR BUILT-IN CARBON MONOXIDE DETECTORS



The Aithre Shield carbon monoxide detectors provide long life, ultra-high sensitivity and response, without any recalibration. We offer built-in options for certified and experimental aircraft as well as the first ever USB plug portable option, each of which fully integrate with the Aithre Connect app to provide the end-to-end breathing safety solution for your aircraft. In addition the experimental EX 3.0 also outputs your SPO2, BPM, and CO levels directly to your Advanced, Garmin, and Dynon avionics as engine widgets.



## FEATURES

- 10 YEAR LIFE
- 2 PPM STARTING SENSITIVITY
- 1 PPM RESOLUTION
- NO LIQUID OR RECALIBRATION
- PORTABLE OR BUILT-IN
- CERTIFIED OR EXPERIMENTAL
- AITHRE CONNECT APP ENABLED
- TREND AND HISTORY
- CUSTOM ALERTS
- AVI AUTO MODE COMPATIBLE

Althre Bottle Specifications and Endurance Data For One Person

Name	Fill Pressure	Bottle Capacity	Dimensions (with regulator)	7000 Ft						10000 Ft				
				Continuous Flow at FAA Rate <sup>1</sup>	Smart Pulse Without App <sup>2,5</sup>	Smart Pulse With App <sup>3,5</sup>	Smart Pulse With App at 50% <sup>4,5</sup>	Continuous Flow at FAA Rate <sup>1</sup>	Smart Pulse Without App <sup>2,5</sup>	Smart Pulse With App <sup>3,5</sup>	Smart Pulse With App at 50% <sup>4,5</sup>			
Product	PSI	Cu Ft/Liters	Diameter	Length	Empty Weight	Minutes/Hrs	Minutes/Hrs	Minutes/Hrs	Minutes/Hrs	Minutes/Hrs	Minutes/Hrs	Minutes/Hrs	Minutes/Hrs	Minutes/Hrs
47L	2000	1.66/47	2 1/2in	15 3/8 in	2lb 14oz	67/1.6	109/1.8	309/5.2	463/7.7	47/0.78	109/1.8	185/3.1	370/6.2	
152L	2000	5.37/152	4 1/32in	15 3/16 in	4lbs 3oz	217/3.6	353/5.9	1000/16.7	1500/25.0	152/2.5	353/5.9	600/10.0	1200/20.0	
925L	2000	32.67/925	6 3/8in	26 1/4 in	11lbs 12oz	1321/22.0	2149/35.8	6085/101.4	9128/152.1	925/15.4	2149/35.8	3651/60.9	7302/121.7	
<b>14000 Ft</b>						<b>18000 Ft</b>								
Product	PSI	Cu Ft/Liters	Diameter	Length	Empty Weight	Continuous Flow at FAA Rate <sup>1</sup>	Smart Pulse Without App <sup>2,5</sup>	Smart Pulse With App <sup>3,5</sup>	Smart Pulse With App at 50% <sup>4,5</sup>	Continuous Flow at FAA Rate <sup>1</sup>	Smart Pulse Without App <sup>2,5</sup>	Smart Pulse With App <sup>3,5</sup>	Smart Pulse With App at 50% <sup>4,5</sup>	
47L	2000	1.66/47	2 1/2in	15 3/8 in	2lb 14oz	33/0.56	109/1.8	142/2.4	284/4.7	26/0.44	109/1.8	109/1.8	218/3.6	
152L	2000	5.37/152	4 1/32in	15 3/16 in	4lbs 3oz	108/1.81	353/5.9	461/7.7	922/15.4	84/1.4	353/5.9	353/5.9	706/11.8	
925L	2000	32.67/925	6 3/8in	26 1/4 in	11lbs 12oz	680/11.01	2149/35.8	2808/46.8	5616/93.6	513/8.6	2149/35.8	2149/35.8	4298/71.6	

Actual duration may vary based on individual physiology and actual flight conditions.

- NOTES**
- Note 1 FAA recommends 1L/10000 feet altitude
  - Note 2 Default flow rate without Althre App and Ilyrian. Even with the higher default flow rate, oxygen savings are achieved through use of microburst technology.
  - Note 3 Default flow rate with Althre App and Ilyrian connected. Avi delivers the FAA recommended flow rate pulsed for each inhalation.
  - Note 4 App allows each individual to select flow rates below FAA recommended rates with Ilyrian. Maximum 50% reduction used for comparison purposes.
  - Note 5 Smart Pulse provides the effective flow rate during the critical phase of each inhalation.



# AITHRE®

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