High Pressure Air Systems (HPAS)

Less disruptions, increased tool time.

Your global partner for:

- Flexible and customizable Breathing Air Systems that increase productivity
- Hassle-free management of air supply that deliver cost-efficiency
- Reliable technical safety personnel who bring you peace of mind

www.UnitedSafety.net
United Safety’s innovative High Pressure Air Systems (HPAS) are fully customizable and are designed to solve the challenges that come with:

- Long distances to end users
- Work areas located at heights
- Multiple users with heavy demands
- Work areas that are constantly changing

United Safety’s High Pressure Air Systems (HPAS) dramatically lower set-up time and eliminate having to move air storage units. The systems have no limits on vertical installations, removing the need to raise air cascades to reach work at heights. They also allow for virtually unlimited reach from an out-of-the-way storage source to end users.

They can be used in a wide variety of installations and offer an effective, convenient, safe and reliable source of breathing air. Dozens of end users can be connected at one time and the air source can be refilled without any disruption to tool time. They are extremely easy and efficient to set up and take down which results in minimized delay and interruption to work schedules.

The High Pressure Air Systems comprise of the following components:

- Regulators
- Air II™ Stations
- Air Storage
**Main System Components**

**Regulators**

*Flexible, versatile, non-intrusive Breathing Air Systems.*

United Safety’s High Pressure Air Systems are designed to deal with high-volume air use applications. A key innovation is the development of a custom-designed regulator system capable of flowing 4500 standard cubic feet of air per hour. All systems have been designed to meet stringent NIOSH requirements.

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**Air II™ Stations**

*Reduce interruption, increase tool time.*

United Safety has continually innovated to solve customer problems and deliver equipment that exceeds expectations, resulting in safety being an efficiency driver. Air II™ Stations are supplied utilizing our high pressure delivery lines.

The Air II™ is a custom-designed breathing air station capable of replicating the components normally located on the actual air storage (cascade). By eliminating the need to have air bottles delivered directly to a work area, it minimizes the need for forklifts, dramatically decreasing interruption and increasing tool time.

Each Air II™ system can support a crew of five and multiple Air II™ systems can be connected together. There are no limitations on distance from air supply and multiple worksites can be supplied from one air source. Additionally, because total volume stored and local pressures are shown together in each Air II™, it eliminates the need for a separate Bottle Watch attendant. An Air II™ Station can be upgraded to an Air II™ Flow in which each worker’s air usage is monitored remotely.
Air Storage
Customizable air storage to suit your every need.

United Safety has many customizable configurations of air storage designed to suit different working environments and air requirements. United Safety’s approach to air storage is flexible and non-intrusive, removing air storage from the list of causes that delay work. We provide the following air storage solutions:

- **Air Trailer II**
  The Air Trailer II reduces the number of cylinders in each trailer while increasing the amount of air available and generating additional storage space. The intrinsically safe breathing air alarm system allows the Air Trailer II to be positioned in environments closer to the worksite, greatly reducing set-up time while increasing flexibility.

- **Smart Pack**
  The Smart Pack is scalable and has a small footprint to accommodate worksites with limited areas/ deck space. Its air storage can be recharged while personnel are still consuming air. Smart Packs are designed to be durable and are fully enclosed to protect from both, the elements and machinery.

- **Air-Qube™**
  The Air-Qube™ is one of United Safety’s latest breathing air solutions. It is a high pressure air storage system that can supply 68,000 cubic feet of air. Though big on capacity, the Air-Qube™ is small in footprint. The cylinders are also shorter than the regular ones but still store the same volume of air, further reducing its size. Several Air-Qube™ units can be stacked making it ideal in situations where space is premium.
Extended reach, absolute safety.

Typical systems using low pressure/low volume regulators are not designed to reach over 300 feet. United Safety’s high pressure system extends this distance. Air stations can be run in a series, extending the reach of centralized air storage systems. Established consumption rates per person are identified and flow demand calculated to protect and support each individual using supplied air during work. See example above.
Key Benefits

- Virtually unlimited reach from storage source to end user.
- No limits on vertical installations.
- Air storage units are equipped to refill in place replacing the need to move breathing air cylinders.
- Air storage units and air stations are equipped with master storage gauges to allow end users to know how much stored air is available throughout the system.
- Air stations are fitted with a 20 percent storage alarm (bell) that indicates when breathing air supply is low.
- High pressure air is delivered directly to the air station eliminating the need for large amounts of low pressure air lines and the associated flow restrictions.
- Air storage can be wheeled or transported on skids. Skids can be stacked for low footprint concerns.
- Customizable to suit different requirements and working conditions.

United Safety is your global safety solutions partner for High Pressure Air Systems (HPAS) for Upstream, Industrial and Operational Safety Integrity Management Services (OSIMS)™.