

Mass Oxygen Distribution System (MODS)

MODS Overview

New to Penn Care's Disaster Response Division, the **Mass Oxygen Distribution System (MODS)** is revolutionizing the way organizations and communities prepare for a disaster. A **MODS** can provide over 64,000 gaseous liters of oxygen (stored as only 75 liters of LOX) to multiple patients. In fact, the oxygen capacity of just one **MODS** system is equivalent to 12 large high-pressure H cylinders. Furthermore, LOX costs less than gaseous oxygen and uses ALL of the oxygen volume, whereas gaseous oxygen cylinders only utilize 80% of their volume and are heavy and difficult to transport. In short, a **MODS** is the most cost-effective and space-conscious way to deliver oxygen to multiple patients in the event of a crisis or hospital evacuation.

Without a MODS



It takes 12 large high-pressure H cylinders of gaseous oxygen to equal the amount of oxygen generated by one **MODS**.

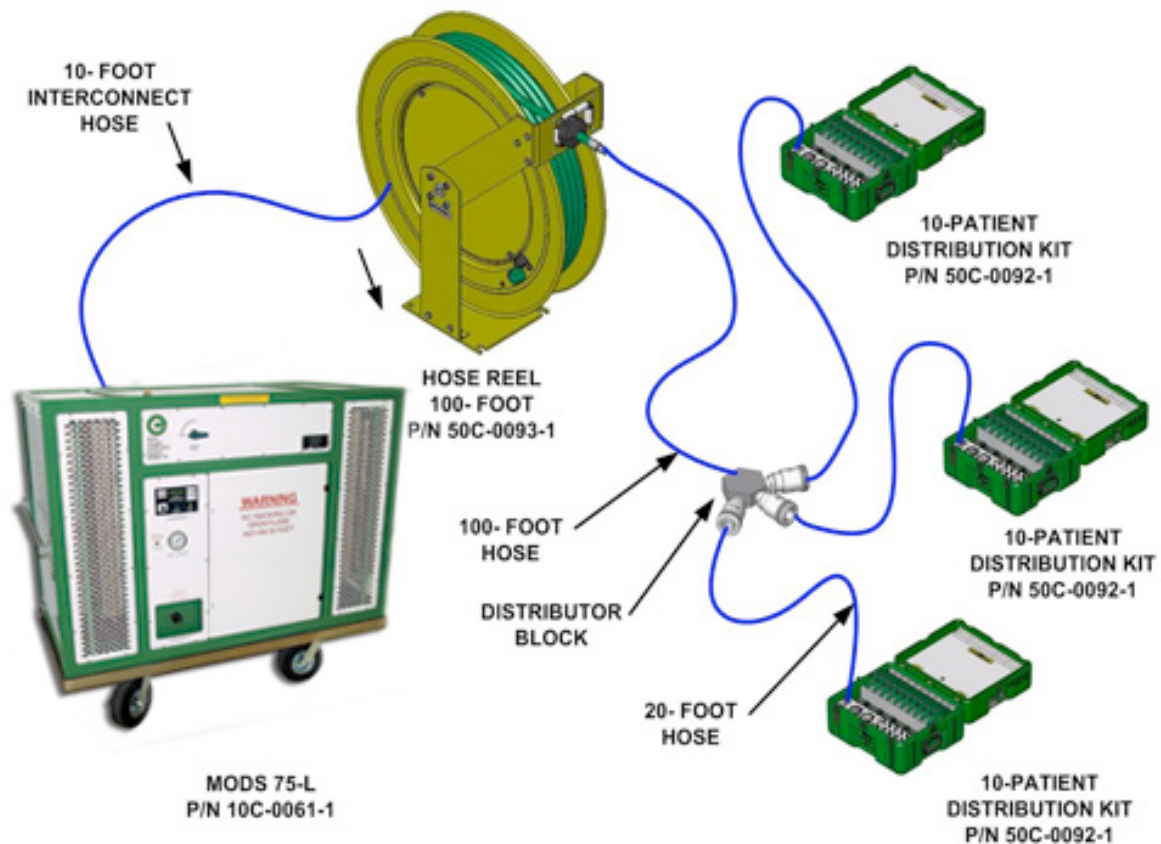
With a MODS



The **MODS** can provide over 64,000 gaseous liters of oxygen (stored as only 75-liters of LOX).

Diagram of a MODS Setup

Setting up a MODS is quick and easy. Recently, Penn Care Sales Manager Taylor Pease and two members from the Arlington County Fire Department in Virginia were able to unload a MODS unit and set up a treatment area in less than fifteen minutes at the Army Ten Miler Race. The MODS was used to supply oxygen to injured runners and spectators throughout the day. The army doctors manning the station were impressed with the system and noted how easy the unit was to set up and how efficiently it operated.



MODS units are scalable and easily transported. Components sold separately.

Five Reasons to Consider a MODS

1. MODS can carry more oxygen: A **MODS** unit can store over 64,000 gaseous liters of oxygen in liquid form. LOX then safely expands exponentially as it is warmed to a gaseous state. This allows the **MODS** to carry more than three-and-a-half times its volume in the same size container as a high-pressure oxygen tank. In addition, the **MODS** trailer is designed and outfitted with storage areas for additional EMS equipment.

2. The Nurse Tank brings oxygen refilling to the field: With the separately towed Nurse Tank, emergency personnel can safely refill the **MODS** oxygen delivery converter time and time again at the triage site or in remote hospital scenarios. They don't have to carry or refill multiple high-pressure oxygen tanks, which saves time and reduces the risk of injury.

3. MODS is a safer form of oxygen delivery: Liquid oxygen is stored at a very low pressure compared to the potentially volatile high-pressure gaseous oxygen tanks.

4. The MODS is a maneuverable and flexible oxygen delivery system: The **MODS** can supply oxygen to multiple patients at once. With the portable PDK's (small, lightweight oxygen supply control centers) and the ample and lengthy oxygen supply hoses, the **MODS** can reach isolated and tight-surrounding patient locations.

5. MODS is a more practical form of oxygen delivery for multiple patients: Imagine a mass incident triage setup where 30 patients require oxygen therapy as part of their rescue. Your choice: 1.) More than 12 heavy, high-pressure oxygen "H" cylinder tanks littering and obstructing the triage center or 2.) one **MODS** unit protected in a trailer up to 100 feet away from the triage area with the ability to address 30 individual patient oxygen flow requirements for up to two hours. In addition, the more high-pressure oxygen delivery points you establish, the greater the number of oxygen delivery failure points you create.

For additional information, call 1-800-392-7233 or visit our website at www.penncare.net.