



## Portable Fresh Air Bay

### Inflatable Refuge Chamber

- ◆ The Strata Safety Fresh Air Bay is a portable, inflatable refuge chamber
- ◆ Serves as a safe haven of breathable air for miners trapped underground
- ◆ The Bay is stored in an explosion resistant steel box called the Fresh Air Bay Skid
- ◆ It is inflated using high pressure compressed air cylinders
- ◆ Medical grade oxygen cylinders and an active CO<sub>2</sub> Scrubber maintain the breathable air within the chamber
- ◆ Skid stores all system components and can be relocated as production advances
- ◆ The Inflatable Bays are constructed from durable, MSHA approved fabric
- ◆ The edges of the tent are welded to be air tight and the construction is intended for long term use
- ◆ A separate airlock entry into the tent designed with a purge air system to eliminate contaminated gases entering the main chamber.
- ◆ Reflective strips are placed on all sides of the Skid to ensure high visibility

# Portable Fresh Air Bay

## Inflatable Refuge Chamber

### FRESH AIR BAY SKID

- ◆ Explosion & fire resistant, steel container used to house and protect entire system
- ◆ Constructed on a skid base for easier mobility
- ◆ Additional hardening options available
- ◆ Wheel and hitch packages available
- ◆ Highly visible with bright yellow paint and reflective decals

### FRESH AIR BAY TENT

- ◆ Constructed from durable MSHA approved fabric
- ◆ Airtight, inflatable structural beams hold tent erect
- ◆ Floor fabric double layered for added durability
- ◆ Air-lock entry compartment minimizes the entrance of contaminated air into the main compartment
- ◆ Purge Air system installed in Airlock
- ◆ Standard sizes: 1-16 Man, 17-26 Man, 27-36 Man

### BREATHING AIR SYSTEM

- ◆ **Active, Air Powered CO<sub>2</sub> Scrubber (Patent Pending):**
  - Requires no electrical power to operate
  - Utilizes Soda Lime Chemicals to remove CO<sub>2</sub>
  - Chemicals contained in cartridges
- ◆ **Compressed Air Cylinders:**
  - Inflate structure and fill main compartment with fresh air
  - Purges Airlock Entry as required
  - Powers the CO<sub>2</sub> Scrubber
- ◆ **Medical Grade Oxygen:**
  - Replenished lost O<sub>2</sub> levels

### OTHER SUPPLIES

- ◆ Multi-gas gas detector - MSHA Approved
- ◆ Flashing location light visible in bad conditions
  - MSHA Approved
- ◆ MSHA approved flashlights and batteries
- ◆ Drinking water and emergency food
- ◆ First Aid Kit including a back-board and stretcher
- ◆ Chemical cooling packs (as required)
- ◆ Portable toilet and waste bags
- ◆ Manual hand pump
- ◆ Patch kit for tent repairs



SKID WITH ADDITIONAL HARDENING AND HITCH



BAY FOLDED UP INSIDE SKID



FRESH AIR BAY SKID

