

Kennedy CHAMBER

**Premier Underground
Emergency Structure Designed
For Sustained Life Support**



Kennedy CHAMBER

Problem

Lives often hang in the balance when an emergency traps miners hundreds of feet underground with a diminishing air supply and the clock ticking...

Solution

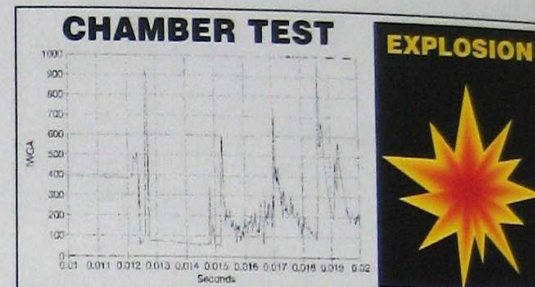
The Kennedy CHAMBER is a secure emergency safety structure designed for extended underground service to provide temporary space and life support for up to 33 people with oxygen and CO2 control for 100 hours at full capacity. Simply put, the Kennedy CHAMBER can save lives.

CHAMBER Features

- Oxygen and CO2 scrubbing capable of 100 hours @ full occupancy
- Very simple operation
- Top seal oxygen valves able to be left on so gauge will read
- Cylinder valve protector so cylinders can be connected at all times
- Full operating instructions placarded inside the unit
- Tight enclosure operating under positive pressure
- Bright orange paint outside with white reflectorized stickers
- Purge air provided in both house and folding house units
- Air lock entrance
- MSHA approved 300 hour flashlights
- First Aid kit
- Permissible mine phone inside unit with 'thru hull' connector
- Emergency exit door
- Heavy 'mine duty' skid under frame
- Ability to be 'sealed' to identify if anyone has been in the chamber
- Oxygen, purge and make-up air supplies are able to be checked from the outside
- Provisions -
 - Water
 - Long shelf life military food rations (MRE)
 - Tools
 - Psychological stress relief items
 - Books, Checkers, Playing cards, Paper, Pencils
- Chemical toilet
- Available in both fully assembled and portable/collapsible units plus material skid units
- 5 year 'shelf life' for most items
- Factory rebuild at life expiration available

TESTING

The Kennedy Chamber is the ONLY chamber that has been thoroughly gas and EXPLOSION tested in the Kennedy explosion test facility. The Kennedy Chamber design has been built and tested in many high pressure (about 36 PSIA peak) gas explosions with solid explosion conditions, that is, a pressure propagation at or above the speed of sound that produces a substantial shock pulse.



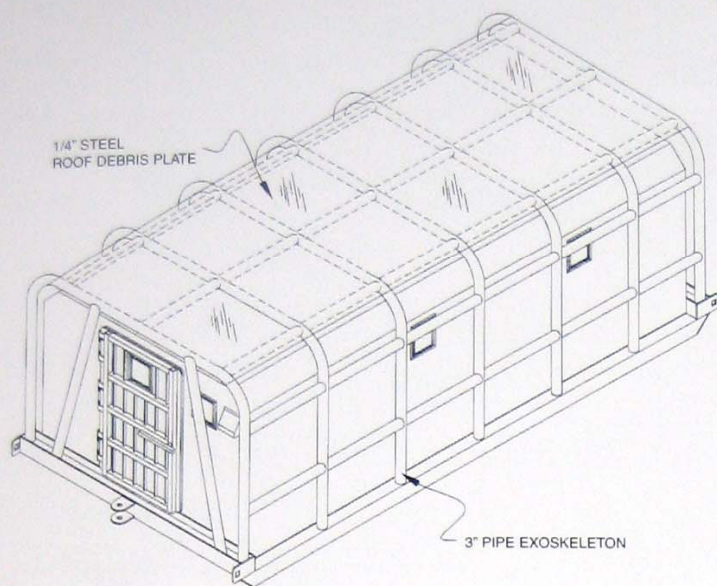
Extensive testing of the Kennedy Chamber has been done under just supersonic propagation conditions where the pulse exceed 1000 inches water gauge absolute. These tests were essentially designed by thermodynamisist and Professor Emeritus Lester D. Savage of the University of Illinois.

Kennedy Explosion Test Facility

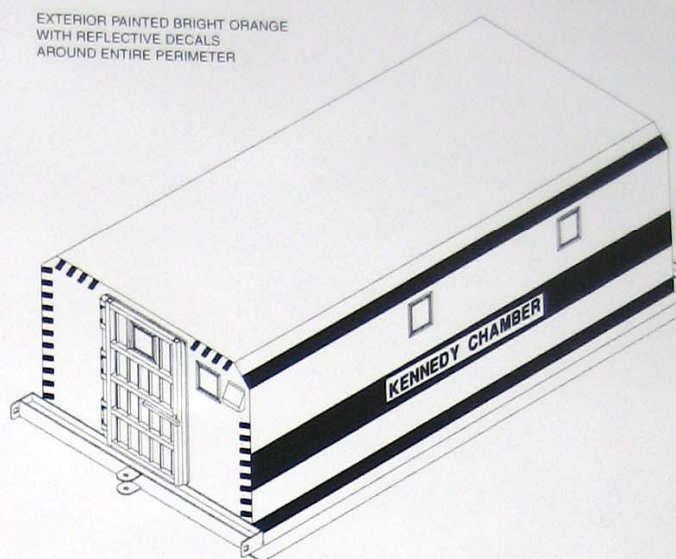
This facility is unique in all the world and was designed and built by Kennedy to be able to test underground mine equipment performance in varying static pressure and explosion conditions.



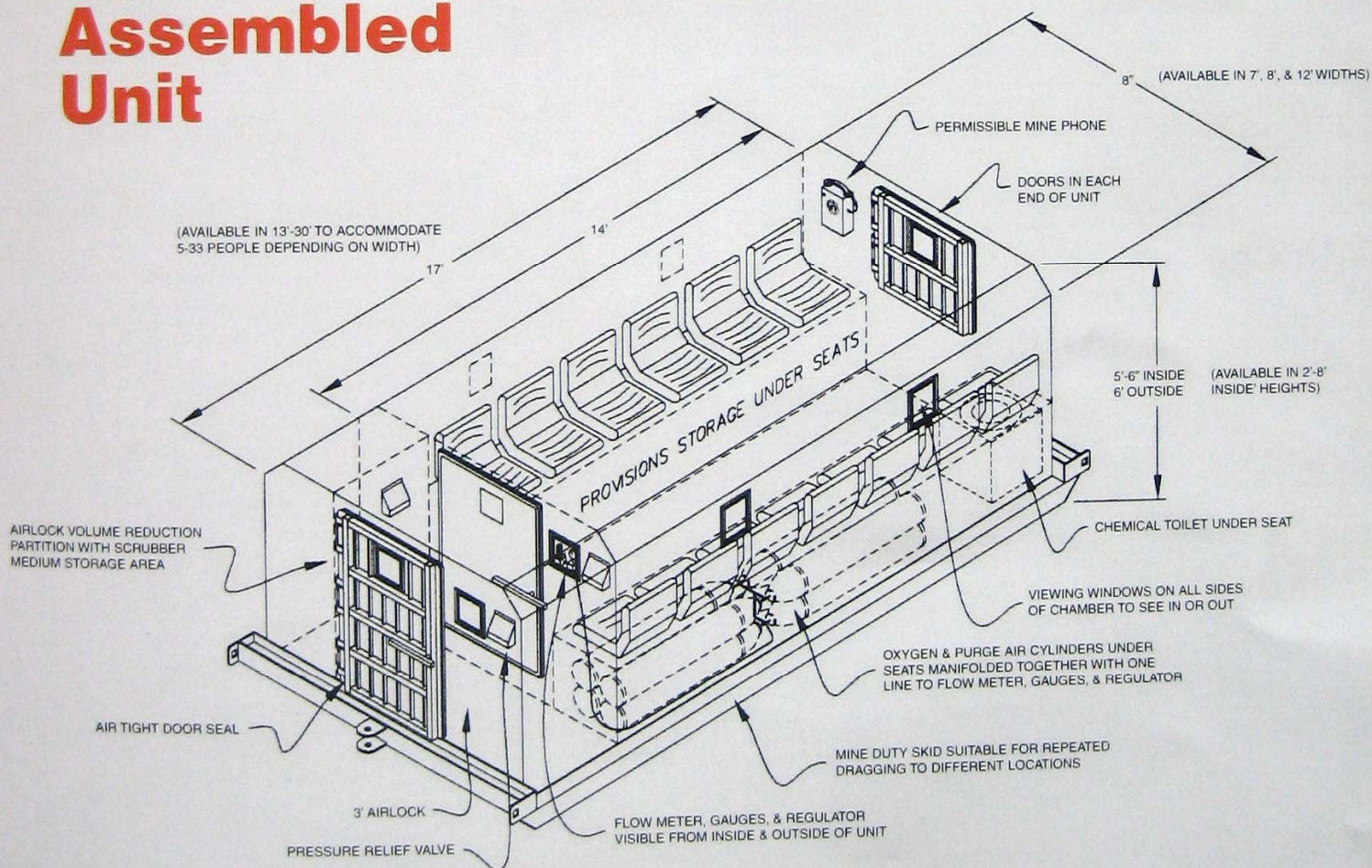
Chamber Exoskeleton



Chamber Perspective

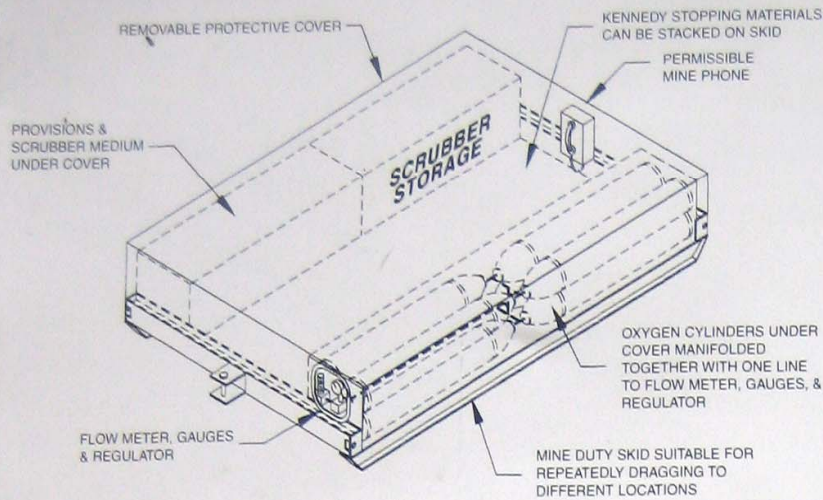


Portable Chamber Assembled Unit

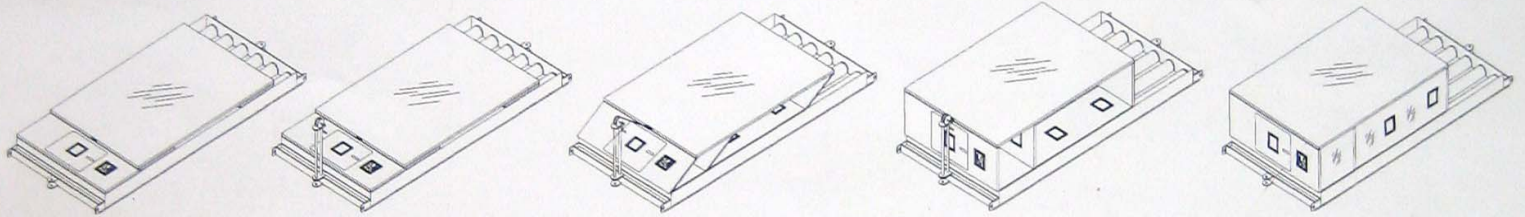
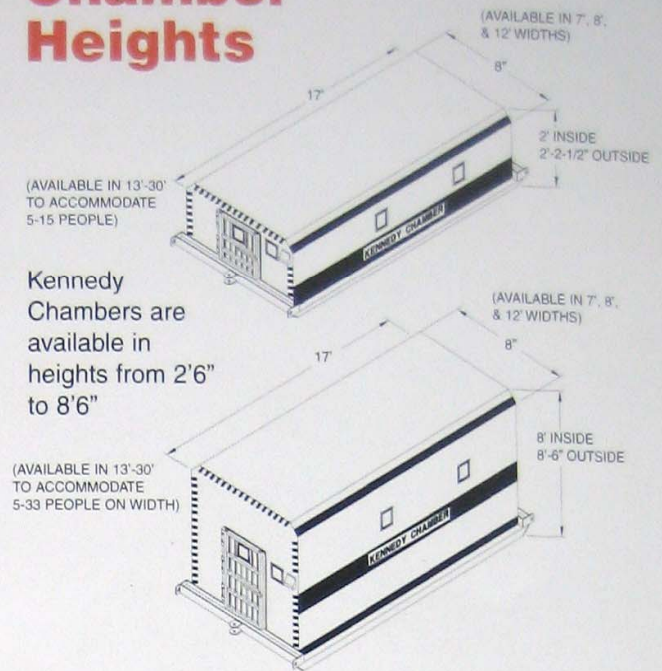


Explosion Tested & Scientifically Designed Steel Chamber Structure

Portable Material Skid



Assembled Chamber Heights



Collapsible Kennedy Chamber Unit

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About Kennedy

Kennedy Metal Products has been working to make mining safer and more productive for decades. We are recognized experts in mining ventilation and safety with plants and warehouses on four continents.



PATENT INFORMATION

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**Kennedy
CHAMBER**

**The Premier
Underground
Emergency
Structure
For Sustained
Life Support**