

Welcome !



Rescue POD Safety System

Gamma Services is a Safety and Production
Assistance Company.

Patent Pending



Why a Rescue POD

- Loss of our fallen colleagues.
- Modern technology is being pursued by the mining community as a result of the recent loss of lives.
- Seal-In-Bratticing has often been a last ditch effort to save your life when all other options have been exhausted to exit the mine, with very few successful attempts.
- Miners are among the most independent and self-reliant people in the world.
- Naturally, miners prefer self-rescue than to rely on a rescue party to reach them from the surface. Building a trust between the miners and the equipment.

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Key Components



- Rescue POD is a fully deployed rugged steel enclosure to help shelter miners from secondary explosions and roof falls while providing breathable oxygen. A POD typically stays with a mining unit although additional POD's can be located out-by the working sections.
- The standard size Rescue POD is designed to support life for 16 people for 96+ hours in a compact size: (16 feet long X 5.7 feet wide X 3.7 feet high).
- Incorporate Through-The-Earth, battery powered, Geosteering TG MinerTracker , while inside and/or near the Rescue POD.

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Key Components (Cont.)



- Mine atmosphere with as little as 4% oxygen can be used as an oxygen source.
- Temperature reduction support system.
- CO, C_H4, CO₂, N₂, Ar, scrubber and H₂O dehumidifier inside the Rescue POD.
- Portable self contained breathing units adds to interior oxygen supply.
- Interior and Exterior monitoring C_H4 and CO₂ levels

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Key Components (Cont.)

- Nutrition and hydrating supplies for miners.
- Canister toilet with privacy curtain.
- Chem.-stick Lighting
- Introducing a Nitrogen foaming fire fighting technique while miners are down stream of the fire, regardless of the limited gas levels.

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Oxygen Transfer

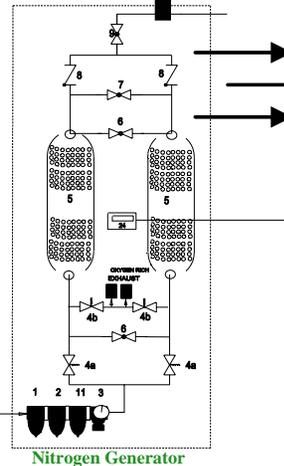
Nitrogen
Argon

192" X 68" X 44" POD
16 people / 96 hours

1000PPM CO
4% Methane
4% Oxygen
Nitrogen / Argon

Mine
Atmosphere

4% Oxygen
Nitrogen / Argon



18% Oxygen

.20.85 O₂
.03 CO₂
.5 H₂O
78.62 N₂

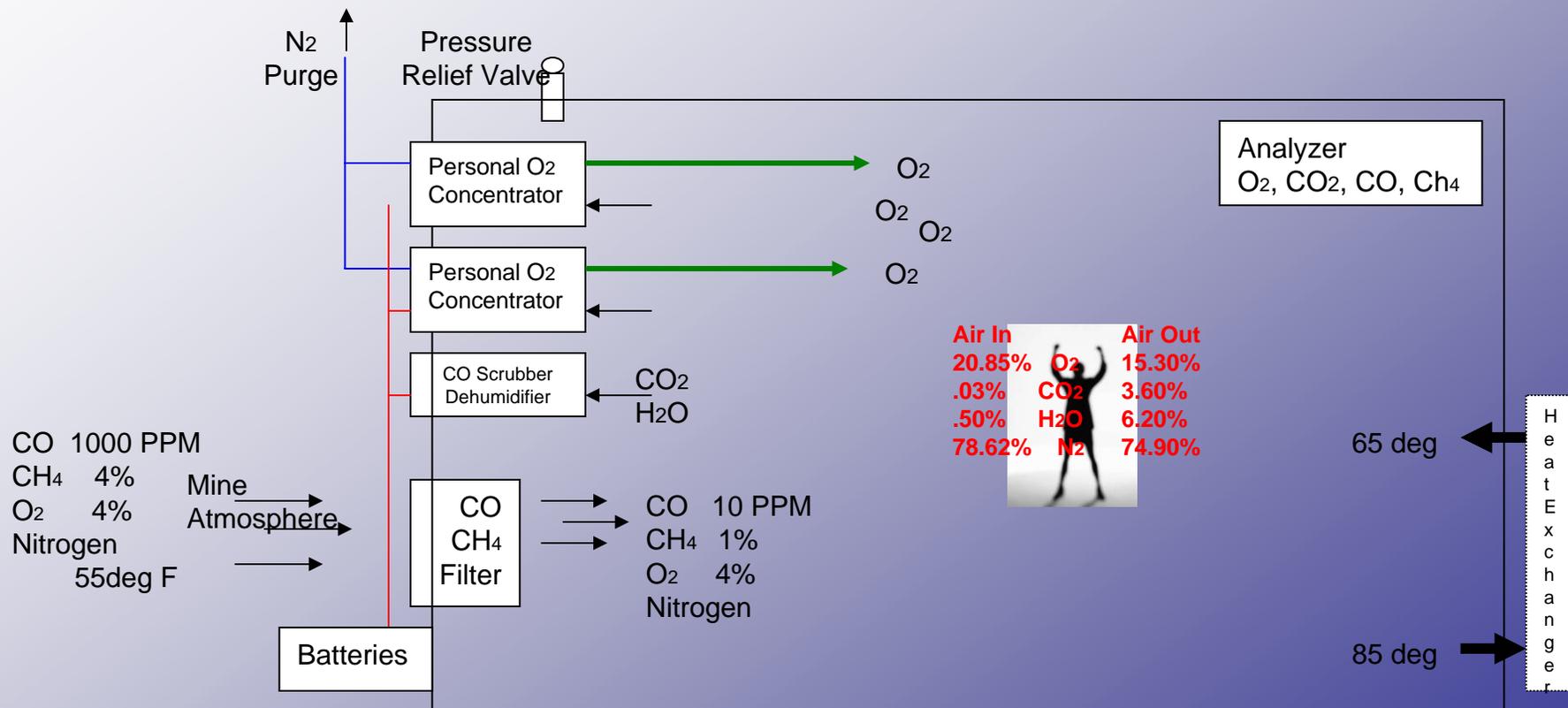


.15.3 O₂
3.6 CO₂
6.2 H₂O
74.9 N₂

← CO Scrubber
→ Dehumidifier

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Oxygen Transfer



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Rescue POD construction



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Rescue POD construction



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Conclusion

- Utilization of rescue PODs for each mining unit could be a useful method of saving lives during mining disasters.
- Gamma Services along with all the supporting companies believes our approach is one of the answer's to saving lives right now.
- However if new ideas or guidance arises in the future, we will change our direction to expedite the deployment for life saving devices to the mining community.

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Thank You

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