



miner's **Safety**
comes **First**



Without Warning... Accidents Can Happen

When an underground Mine Disaster occurs, a Mine Refuge Chamber could be the only way to SAVE LIVES. All Mine Rescue Plans should include the evacuation of miners to a "Safe Haven". However, miner's lives are risked when they take refuge in sealed stations without a source of breathable air. In these situations, oxygen is depleted and Carbon Dioxide quickly builds to dangerous levels. For this reason, Mine Rescue Chambers MUST INCLUDE a source of Breathable Air to keep miners alive and give rescuers a chance to perform rescue operations.

The Refuge One Air Centre provides a Reliable, Breathable Air SOLUTION during an Underground Emergency

Refuge One Air Centres are compact, sturdy, easy to operate and can work independently despite loss of mine's electrical power or compressed air supply.

The TOMMYKNOCKER is a Complete Mine Refuge System

ON₂ builds, supplies and services our mobile mine refuge chamber, The TommyKnocker. Our portable design allows the TommyKnocker to be easily deployed anywhere within the mine and can be pushed, pulled, lifted or dragged. The TommyKnocker also includes a Refuge One Air Centre to ensure a reliable source of breathable air is available to all occupants.

The ON₂ Advantage

TommyKnocker

- ✓ Double door entry system for control of outside air
- ✓ Marine latches ensure an airtight seal on each door
- ✓ Entry airlock eliminates ingress of external toxic gasses into chamber
- ✓ Dimmable LED lighting, to allow occupants to sleep
- ✓ Includes the ON₂ Refuge One Air Centre to provide a reliable source of breathable air
- ✓ Carbon monoxide scrubbers and detectors available
- ✓ Redundant air supply available
- ✓ Occupancy beacon and siren allows rescuers to locate chamber easily
- ✓ Split system 230VAC or 24VDC air conditioners minimize power consumption
- ✓ Portable design allows easy transport; hoist, drag, roll, or forklift to move



a **Safe Haven**
for **Miners**



PROCESSED AIR
(CO₂ removed - O₂ added)

REFUGE CHAMBER AIR
(CO₂ elevated - O₂ depleted)

O₂ ADDED

- OXYGEN
- FRESH AIR
- DEPLETED AIR



The ON₂ Advantage

Refuge One

- ✓ Over 300 Air Centres installed Worldwide
- ✓ National & International Award Winning Design
- ✓ Capable of providing breathable air for up to 96 hours
- ✓ Reliable and easy to operate
- ✓ Efficient three dimensional layout
- ✓ Conception assisted by miners through real-time testing
- ✓ Limited fragile instrumentation to create a more reliable and sturdy design
- ✓ Two sizes available to better meet specific Mine needs
- ✓ Easy to use sodalime kegs make operation simple
- ✓ Sodalime turns violet to alert expiration of product
- ✓ Skid mounted for easy transport
- ✓ A cost effective supply source for breathable air

For more information, please contact our Sales Office:

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