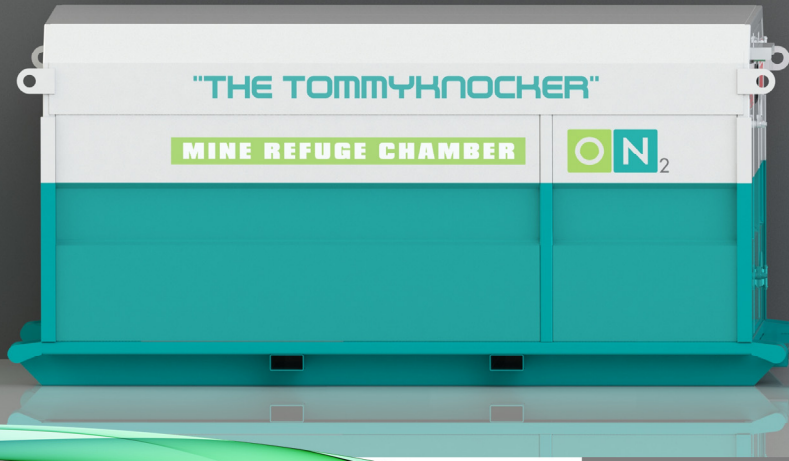




a Safe Haven



for Miners

DESCRIPTION

ON₂ designs, builds, supplies and services “The TommyKnocker” mobile mine refuge chamber for the underground “Hard Rock” mining industry. It is easy to move and relocate in underground mining applications. It typically includes the ON₂ “Refuge One Air Centre”, making it a complete mine refuge system.

KEY FEATURES

- **Modular & Rugged** fire resistance steel construction; can be custom designed to suit various customer needs
- **Mobile** four built in laser cut lifting lugs facilitate lifting and hoisting; skid mounted for easy relocation (pushing or dragging) and forklift transfer
- **Independently Powered** using battery backup during emergency situations
- **Two Breathable Air Sources** may use the mine’s compressed air supply (optional) or function independently using the Refuge One Air Centre
- **Self-Contained** using the Refuge One Air Centre, provided with battery back-up
- **Lighting** internal LED lights operate on mine or battery power; externally mounted beacon light is used to locate the chamber; external warning light indicates if there is a problem with the electrical charging system
- **Reflective Signage** mounted externally and designed to be easily read in low level light conditions
- **Entry Air Lock** chamber provided by two fully sealable doors
- **Leak Tested & Pressure Regulated** to ensure toxic gases are kept out of the chamber and breathable air stays in
- **Seating & Bench Storage** contains drinkable water dispenser, first aid kit, fire extinguisher and provides extra storage
- **Wall Mounted Storage Cabinet** contains drinkable water dispenser, first aid kit, fire extinguisher and provides extra storage
- **Available Options** compressed air outlet station, carbon monoxide scrubber, portable gas monitor, air conditioning system.

SPECIFICATIONS

Physical Dimensions

Available Lengths

14 ft (4267 mm)	10 person
16 ft (4877 mm)	12 person
18 ft (5486 mm)	14 person
20 ft (6096 mm)	16 person
22 ft (6706 mm)	18 person
24 ft (7315 mm)	20 person

Standard Width

88 inches (2235 mm)

Standard Height

86 inches (2185 mm)

Custom sizes may be available

Weights vary with supplied options

Composition

- Fire resistant materials
- Heavy-duty, 12-gauge formed steel
- Epoxy primed and acrylic painted
- Solid steel wall divider between entry air lock and interior chamber



when miners'

safety comes first



OPTIONS

available upon request

Compressed Air Outlet Station

- Connects to the mine's compressed air system
- Compressed air is filtered and pressure reduced (includes regulator and drain)
- Relief valves control internal chamber pressure
- Includes muffler for noise reduction

Carbon Monoxide Scrubber

- Size and model based on expected volume and concentration of carbon monoxide

Portable Gas Monitor (digital)

- Measures oxygen, carbon dioxide, carbon monoxide, and other optional gases

Air Conditioning System

- Controls interior temperature and humidity
- AC/DC powered, split air conditioner
- Inverter/charger and battery back-up power (up to 96 hrs)
- Batteries are mounted outside refuge chamber in cabinet

**For more information,
please contact our Sales Office:**

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SPECIFICATIONS

Doors & Windows

Two (2) air tight doors
with marine latches
Each door contains a window

Toilet

Self-contained

Drinkable Water Dispenser

Customized capacity

Electrical

Inputs

120/240 V AC, 50/60 Hz

Lighting

12 V DC or
120 V AC LED

Alarms

110 dB audible alarm
when occupied