



Introducing the TK2 a Safe Haven for Miners



DESCRIPTION

ON₂ designs, builds, supplies and services "The TommyKnocker" mobile mine refuge chamber for the underground mining. It typically includes the ON₂ "Refuge One Air Centre", making it a complete Mine Refuge System. With the launch of our NEW "TK2" chamber structural design changes were made to meet new Regional OHS regulations. ON₂ has extended the airlock entryway to 2 metres, which will ensure fast unobstructed access into the refuge chamber in the case of an emergency. At the same time, the TK2 now has a shrouded external battery compartment that will be capable of providing up to 96 hours of power. With the miners' comfort in mind, and to eliminate any additional heat buildup within the chamber, ON₂ only uses high output dimmable LED lighting to ensure cool operation with maximum LED life. These design changes not only enhance the safety of the miners, but also provide an increased level of comfort to those miners who seek a Safe Haven.

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 back-up 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 dimmable 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** provides extra storage
- **Wall Mounted Storage Cabinet** contains drinkable water dispenser, first aid kit, fire extinguisher and provides extra storage

SPECIFICATIONS

Physical Dimensions

Available Lengths

20 ft (6.2 M)	10 person
22 ft (6.7 M)	12 person
24 ft (7.3 M)	14 person
26 ft (7.9 M)	16 person
28 ft (8.5 M)	18 person
30 ft (9.1 M)	20 person

Standard Width

7.5 ft (2.3 M)

Standard Height

7 ft (2.2 M)

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 and continuously purge airlock entry
- 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
- External air conditioning unit protected within rear shrouded canopy
- Inverter/charger and battery back-up power (up to 96 hrs)
- **Batteries are mounted externally in a NEW shrouded and vented compartment**

**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

*2 metre (6'6") Airlock allows for
two people plus a stretcher fast and
safe access to refuge chamber*

Toilet

Self-contained

Drinkable Water Dispenser
New Military Grade Design

Electrical

Inputs

120/240 V AC, 50/60 Hz

Lighting

12 V DC or

120 V AC LED only

Alarms

110 dB audible alarm
when occupied