

# Introducing the TK2 a Safe Haven for Miners



#### DESCRIPTION

 $ON_2$  designs, builds, supplies and services "The TommyKnocker" mobile mine refuge chamber for the underground mining. It typically includes the  $ON_2$  "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.  $ON_2$  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,  $ON_2$  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)

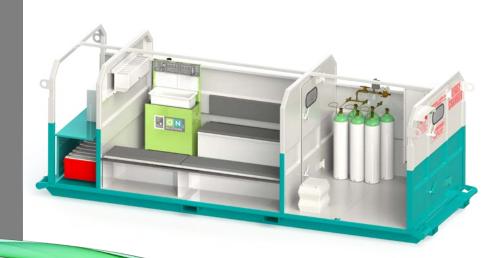
Custom sizes may be available Neights vary with supplied options

#### 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

# ON2 SOLUTIONS

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 wo 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