

**TOMMYKNOCKER
SPECIFICATIONS**

REFUGE CHAMBER	
manufacturer	ON ₂ Solutions custom built refuge unit
dimensions	W 7'4" x H 7'3" x L 14-24'
capacity	10-20 people
composition	12 gauge steel with checker steel flooring
weight	4980 - 7280lbs
coating	Epoxy primer with urethane coating
seating	Padded benches along both walls
airlock	4' entry chamber with air tight doors (2) with marine watertight style latches
windows	Polycarbonate windows in both doors
storage	Cabinet in refuge area as well as under both benches
lighting	12VDC LED dimmable lighting strips (3)
electrical	<ul style="list-style-type: none"> o 115/230VAC mine supply depending on whether A/C unit ordered o 12VDC with 36, 48, 72, 96 hour capacity options
mobility	<ul style="list-style-type: none"> o Built-in skids for in-mine dragging o Forklift guides for lifting o Lifting lugs in all corners for hoisting
safety	<ul style="list-style-type: none"> o Reflective signage for ease of location in poor lighting o Flashing LED strobe when occupied o Warning siren when occupied

INTERIOR EQUIPMENT	
toilet	20 litre self-contained
water	26 litre capacity container
first aid kit	Standard kit supplied
fire extinguisher	Multi-purpose dry chemical supplied

AIR SUPPLY – REFUGE ONE AIR CENTRE	
manufacturer	ON ₂ Solutions
type	Soda Lime based active CO ₂ scrubber (see separate data sheet for full details)
capacity	8-20 people depending on the TommyKnocker size
duration (on battery)	36-96 hours depending on the battery capacity
oxygen supply	2250psi “K” cylinders sized for the maximum person capacity

OPTIONAL EQUIPMENT	
mine air supply	Hook-up for mine’s compressed air supply <ul style="list-style-type: none"> ○ Air supply filtered to remove impurities ○ Purge drain valve included ○ Pressure regulator included ○ Muffler included
air conditioner	230VAC Split System LG Air Conditioner <ul style="list-style-type: none"> ○ Available in 12,000 and 18,000BTU cooling capacities ○ Variable speed system increases the longevity of the battery power ○ LED display indicates status of the unit ○ Dehumidifier drains externally
co catalyzer	Converts CO to CO ₂ which is then scrubbed by the Refuge One Air Centre <ul style="list-style-type: none"> ○ One-time use only to remove CO when chamber first occupied ○ Separate battery operated unit turned on if CO alarm occurs
gas monitor	Handheld gas monitor to report on oxygen, Carbon Dioxide, Carbon Monoxide, Temperature, and Humidity.
communication centre	Cabinet and connections available to meet mine requirements
soda lime	Additional sodalime available in 20kg kegs
oxygen cylinders	“K” cylinders available, but local sourcing is recommended

Please Note: In accordance with ON₂ Solutions’ policy on Continued Development; Specifications may change without notice