



AIRDOC

CHANGE-OVER STATION

- ◆ The AIRDOC is a unit that has been designed to facilitate 'Self Escape' in the event of an emergency
- ◆ It is a transitional station that offers the miners a non-toxic environment in which to rest, recover and exchange SCSR units during evacuation of the mine
- ◆ The first level of safety is a filtration system that is connected to mine air. While mine air is available, the duration of air supply is virtually unlimited
- ◆ As a secondary level, the AIRDOC has a powerless breathing air system which provides breathable air using compressed oxygen cylinders and a CO₂ scrubbing system
- ◆ Oxygen from the cylinders is directed through the Carbon Dioxide Scrubber and released into the center change over area of the 'AIRDOC'
- ◆ When operating on 100% stand alone mode, the AIRDOC provides 9 hours of breathable air
- ◆ Food, water, communication devices, extra SCSRs and first aid kits can be stored in the units
- ◆ The 'AIRDOC' is the first of its kind in the Mining Industry and will be cutting edge equipment for the coal face of operations

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SCSR Storage Racks & CO₂ Scrubber



Airlock Clear Strips & SCSR Disposal bin



Seating & Storage compartment



Oxygen cylinders & filtration system

AIRDOC MAIN FUNCTION

- ◆ Medical grade oxygen cylinders replenish the O₂ levels in the AIRDOC. The gas is directed through the CO₂ scrubbing system
- ◆ The powerless scrubber uses Soda Lime to neutralize Carbon Dioxide build up. The Soda Lime must be changed when depleted and this is visible by a change of Color - White to Purple
- ◆ The AIRDOC is fitted with a storage rack that holds 50 Self Rescuers
- ◆ The Self Rescuers remain in the "stand-by" mode until required
- ◆ The SCSRs are positioned so that the Inspection Viewing Site Glass is visible while on the rack, which enables a quick check to ensure the Self Rescuer is in a serviceable and safe condition
- ◆ In an emergency, Miners enter the AIRDOC and remove their Self Rescuer and replace it with a new long Duration Self Rescuer from the rack
- ◆ Upon exiting the AIRDOC, used Self Rescuers are placed in a disposal bin located inside the unit next to the exit door

AIRLOCK ENTRY AND EXIT

- ◆ The AIRDOC is a transitional unit and is designed for walk through
- ◆ The Airlock Clear Strips must remain in the closed position to ensure the center safe-area is free of toxic gas
- ◆ The Airlocks are positioned in a way that reduces the risk of hazardous gases entering the main center section
- ◆ Always keep at least one door closed to stop a "draft effect" occurring which may cause toxic gas entering the AIRDOC.
- ◆ The AIRDOC requires very little maintenance which is noted on the Maintenance Schedule



Entry and Exit for AIRDOC