



MineSAFE Climate Control

The MineSAFE Climate Control is a fully portable unit that can be used during scheduled break periods as a temperature controlled rest area.



mineSAFE
CLIMATE CONTROL



Climate Control
7-Person Shelter
MS-UD3-07-CC

MineARC Systems - Built for Safety.

www.minearc.com



Company Profile

MineARC Systems is the global leader in the manufacture and supply of emergency safe refuge solutions for the mining, tunnelling, chemical processing and disaster relief industries.

With 20 years' experience, our dedication to ongoing research and development is driven by our key focus to continually offer the best and most advanced safety solutions on the market.

Our team of qualified engineers, electrical designers and technical experts form a global network across several international locations including;

- Perth, Western Australia
- Johannesburg, South Africa
- Dallas, Texas
- Santiago, Chile
- Beijing, China
- Barcelona, Spain
- Guanajuato, Mexico

This allows MineARC to provide 24 hour service and engineering support to our expanding list of clients in over 60 countries across the globe.

All MineARC Refuge Chambers and Safe Havens comply with the highest international regulations and recognised 'world's best practice' industry guidelines. Our key focus on quality control and product advancement has meant that MineARC Refuge Chambers have successfully saved lives in multiple real life industrial emergencies around the globe.

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The MineSAFE Climate Control

Helping safeguard miners in over 40 countries, across six continents, MineARC is the world's most trusted manufacturer of underground mine refuge solutions.



MS-UD3-07-CC

The MineSAFE Climate Control is MineARC's solution to wasted productivity due to temperature-related illness within the mining industry.

Avoidance and remedy of extreme temperature stress on workers is a common cause of delays and costly stoppages to work in underground mining. Caused by the relatively narrow range of climatic conditions within which the unprotected human body can operate efficiently, the consequences of temperature stress can be serious to the health and productivity of personnel.

To date, methods for combating the possibility of heat stroke or hypothermia in underground mine sites include; ensuring that workers are appropriately clothed, are acclimatized to extreme temperature

environments and are adequately hydrated and rested. This generally involves miners leaving the work area at regular intervals and travelling extended distances to an underground break room or to the surface.

The Climate Control is a more time and cost efficient solution. It is a fully portable unit that can be placed in close proximity to the underground work area, and relocated as required. The shelter minimises time lost during legally mandated break times, which can contribute to several hours of wasted productivity per person, on every shift.



Bureau Veritas ISO 9001:2008 Quality Management Systems



MineARC® HRM Refuge Live Risk Assessment Testing



Australian C-Tick Standards: AS4100-1998, AS3570.1-18, AS2208, AS3000, AS1716-15



Canadian Standards Association (CSA)



United States National Electrical Code (NEC) 2013/14



European CE Certified to Machinery Norms

MineSAFE Climate Control - Exterior

The MineSAFE Climate Control is a thermally insulated structure, limiting the transfer of heat between the internal chamber and external environment. The chamber utilises one-inch thick glass wool rigid board clad within the exterior steel structure, allowing the internal temperature to equalise quickly.

LIFTING EYES

- Fold down design
- Located top center of unit

FLASHING BEACON

- Motion sensor activated

AIR VENTS AND COVERS

PORTHOLE WINDOW

- 25mm (9") diameter
- Polycarbonate 12mm (1/2")
- Stainless steel hardware

BULKHEAD WALL LIGHT

- Stainless steel

SECURE ENTRY DOOR

- Outward opening
- Rotating handle
- Internal compression seal

MINE WATER CONNECTION

REFLECTIVE SIGNAGE

THERMAL INSULATION

- 25mm (1") glass wool rigid board
- Clad with 3mm (1/8") steel plate

FORKLIFT SLOTS

- 250x100mm (10"x4") slots
- Accessible from all sides

MS-UD3-07-CC

MineSAFE Climate Control - Interior

INTERNAL LIGHTING

- Fluorescent fixture
- Motion sensor activated with manual override

NOT PICTURED:

OPERATIONAL PROCEDURES

- Operating Procedure Decals
- MSDS Sheets

FIRE EXTINGUISHER

- ABC Dry Powder 2.3kg (5lb)
- For external use only
- Optional for non-Australian orders. Supplied separately as Dangerous Goods.

COMMUNICATIONS

- Wall mounted steel "j" box
- 2 internal penetration glands

RCD BREAKER

AIR CONDITIONING

- Mitsubishi split system, R410a
- Operating range: -11-46 °C
- Remote control with manual override switch



ERGONOMIC SEATING

- Fold-down style with back rest
- Padded vinyl
- Durable and easy to clean

HAND WASH FACILITIES

- Stainless steel sink
- Wall mounted soap and paper towel dispenser
- Stainless steel trash bin
- Plumbed with external water supply
- Available with select models

RAISED FLOORING

- Removable, non-slip
- Non-skid tape for exposed metal surfaces

UNDER SEAT STORAGE

Standard Configurations

Significantly Reduces Travel Time During Break Periods

Thermally Insulated, Robust Steel Construction

Configurable for Heating or Cooling

Comfortable, Ergonomically Designed Seating

Easily Relocated Within Tight Mining Confines



The MineSAFE Climate Control (MS-UD3-07-CC)

Standard Features

- 3mm (3/16") steel construction
- Interior and exterior lighting
- 25mm (1") glass wool rigid board insulation
- Reflective signage & corrosion resistant paint
- Air conditioning
- Raised, non-slip flooring
- Ergonomic bucket seats
- Outward opening door with robust rotating handle
- Viewing porthole window
- Internal compression seal for energy conservation
- Forklift slots and lifting rings



MS-UD1-03-CC (3 Person w/ sink) MS-UD1-04-CC (4 Person) MS-UD2-05-CC (5 Person w/ sink) MS-UD2-06-CC (6 Person) MS-UD3-07-CC (7 Person w/ sink) MS-UD3-08-CC (8 Person)

Standard Dimensions

Model	Occupancy (persons)	Configuration	Length (cm/inch)	Height (cm/inch)	Width (cm/inch)	Weight (kgs/lbs)
MS-UD1-03-CC	3	Sink	183cm / 72"	224cm / 88.13"	186cm / 73.25"	2,041kg / 4,500lbs
MS-UD1-04-CC	4	No Sink	183cm / 72"	224cm / 88.13"	186cm / 73.25"	2,041kg / 4,500lbs
MS-UD2-05-CC	5	Sink	244cm / 96"	224cm / 88.13"	186cm / 73.25"	2,381kg / 5,250lbs
MS-UD2-06-CC	6	No Sink	244cm / 96"	224cm / 88.13"	186cm / 73.25"	2,381kg / 5,250lbs
MS-UD3-07-CC	7	Sink	305cm / 120"	224cm / 88.13"	186cm / 73.25"	2,722kg / 6,000lbs
MS-UD3-08-CC	8	No Sink	305cm / 120"	224cm / 88.13"	186cm / 73.25"	2,722kg / 6,000lbs

Indicative weights only. Custom variations will impact final refuge chamber weight.



Optional Features

Custom Design

- Custom heights, widths, lengths and designs available upon request

Transformer

- Pre-mounted and wired to unit
- 240V internal/external GFCI outlets available

Voltage Connectors

- Cable coupler attachments available in your choice of styles for quick attachment/detachment of external power
- Mounted directly to unit to increase mobility

Hyper Heat

- For low ambient temperature operation
- Operating range -26 - 46°C

Language of Choice

- Internal and external safety, indication and operational signage in language other than English



AIR VENT VALVE

DO NOT OBSTRUCT

SALES & SERVICE
PH: (214) 337-5100
FAX: (214) 337-5103

ROTATE HANDLE SLOWLY

LOCK UNLOCK



mineARC
SYSTEMS
CLIMATE CONTROL SHELTER

SERVICE DATE
mineARC NEXT SERVICE DUE

7 PERSON UNIT

MINE WATER

CAUTION
SHELTER MUST BE
ON LEVEL GROUND
AT ALL TIMES

MAA-392